



User Guide

- How to Use
- Troubleshooting
- List of Topics



Use this manual if you encounter any problems, or have any questions about your VAIO computer.

[Read This First](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

How to Use

Select the item you want to check from the navigation pane on the left, then the keyword from the right pane. The list of topics relating to the keyword will be displayed.

If you cannot find the item:

- In the List of Topics, you can see headers for all of the topics in this user guide.
- Enter the keyword in the search box at the top of each page.

 [Go to Page Top](#)



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

Troubleshooting

Select the item you want to check from the navigation pane on the left, then the keyword from the right pane. The list of FAQs relating to the keyword will be displayed.

Visit the VAIO support website that provides up-to-date information on your VAIO computer.

- <http://esupport.sony.com/US/VAIO/> (USA)
- <http://www.sony.ca/support/> (Canada: English)
- <http://fr.sony.ca/support/> (Canada: French)
- <http://esupport.sony.com/LA/VAIO/> (Latin American area)
- <http://esupport.sony.com/BR/VAIO/> (Brazil)

[Go to Page Top](#)




[Back](#) | [Back to Top](#)

List of Topics


Headers for all of the topics in this user guide will be displayed. Select the item from the navigation pane on the left.

[Go to Page Top](#)

User Guide

 How to Use

 Troubleshooting

 List of Topics

How to Use

Troubleshooting



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Read This First

Congratulations on your purchase of this VAIO(R) computer.

About your VAIO computer's configuration

To find out about the configuration of your VAIO computer, visit the Sony online support website. See [About Online Support Website](#) for more information.

Some features, options, and supplied items may not be available on your VAIO computer.

Features

Available features vary depending on the model or options you selected. Not all features described in this manual are available depending on your model.

Illustrations

Illustrations, photos, or screenshots in this manual may look slightly different depending on the model or options you selected.

Apps

The preinstalled apps may vary depending on the model or options you selected.

The apps described in this manual may not be preinstalled on your VAIO computer.

Supplied manuals

The following manuals are supplied with your VAIO computer.

On-screen documentation

- **User Guide - Introduction Version** ([Welcome](#))
A preinstalled manual with limited information of your VAIO computer, focused on support and Internet connection. The **User Guide - Introduction Version** is replaced with a complete version of the **User Guide** (this manual), after update.
- **User Guide (this manual)**
General information and operation instructions about your VAIO computer including support and troubleshooting information

Printed documentation

- **Quick Start Guide**
An overview of how to set up and get started with your VAIO computer
- **Recovery, Backup and Troubleshooting Guide**
Information on how to recover and back up your VAIO computer, as well as troubleshooting information
- **Safety Regulations**
Read carefully before activating the wireless functions such as the wireless LAN and BLUETOOTH technology.

Other references

- **Windows Help and Support**

A comprehensive resource for practical advice, tutorials, and demonstrations to help you learn to use your VAIO computer.

To open **Windows Help and Support**, see [Opening Windows Help and Support](#).

- **App help files**

App help files may be included with the preinstalled apps on your VAIO computer. You may be able to access the help files from the help menu.

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[↑ Go to Page Top](#)

Related Topic

- [About Online Support Website](#)

[↑ Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Windows 8: The Basics

[Power](#)

[Display](#)

[Internet](#)

[Password](#)

[Apps](#)

[Windows](#)

[Menu](#)

[Windows 8](#)

[Store](#)

[Help and Support](#)

[User account](#)

[↑ Go to Page Top](#)



[Back](#) | [Back to Top](#)

Parts Description

[VAIO computer](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Setup

[VAIO computer](#)

[Power](#)

[Battery](#)

[Memory module](#)

[Supplied items](#)

[Windows 8](#)

[↑ Go to Page Top](#)



[Back](#) | [Back to Top](#)

Network / Internet

[Internet](#)

[LAN](#)

[Wi-Fi](#)

[Apps](#)

[Store](#)

[↑ Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Connections

[Power](#)

[Battery](#)

[Display](#)

[HDMI](#)

[Peripheral device](#)

[CD/DVD/BD](#)

[Audio](#)

[Speakers](#)

[Headphones](#)

[Microphone](#)

[Optical digital output](#)

[Internet](#)

[LAN](#)

[Wi-Fi](#)

[BLUETOOTH](#)

[USB](#)

[Go to Page Top](#)



[Back](#) | [Back to Top](#)

Settings

- [VAIO computer](#)
- [Power](#)
- [Display](#)
- [HDMI](#)
- [Peripheral device](#)
- [CD/DVD/BD](#)
- [Audio](#)
- [Speakers](#)
- [Microphone](#)
- [Optical digital output](#)
- [Button](#)
- [Recovery](#)
- [Keyboard](#)
- [Touch pad](#)
- [Camera](#)
- [Internet](#)
- [Password](#)
- [Memory module](#)
- [BIOS](#)
- [Service and support](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Touch panel](#)

[Security](#)

[Menu](#)

[Windows 8](#)

[User account](#)

[↑ Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Playback

[CD/DVD/BD](#)

 [Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Backup / Recovery

[VAIO computer](#)

[CD/DVD/BD](#)

[Button](#)

[Recovery](#)

[BIOS](#)

[Backup](#)

[Service and support](#)

[Built-in storage device](#)

[Partition](#)

[Refresh](#)

[↑ Go to Page Top](#)

[Back](#) | [Back to Top](#)

Security

[VAIO computer](#)

[Internet](#)

[Password](#)

[BIOS](#)

[Service and support](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Other Operations

[VAIO computer](#)

[Power](#)

[Battery](#)

[Display](#)

[CD/DVD/BD](#)

[Keyboard](#)

[Touch pad](#)

[Camera](#)

[Memory module](#)

[USB](#)

[Memory card](#)

[Built-in storage device](#)

[Touch panel](#)

[Partition](#)

[NFC/One-touch functions](#)

[Windows](#)

[Windows 8](#)

[Help and Support](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Notifications

[Read this first](#)

[VAIO computer](#)

[CD/DVD/BD](#)

[Care and maintenance](#)

[Important notice](#)

[Service and support](#)

[Product registration](#)

[Supplied items](#)

[Security](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

Hardware

[Power](#)

[Battery](#)

[Display](#)

[HDMI](#)

[CD/DVD/BD](#)

[Audio](#)

[Microphone](#)

[Keyboard](#)

[Touch pad](#)

[Camera](#)

[LAN](#)

[Wi-Fi](#)

[BLUETOOTH](#)

[Password](#)

[BIOS](#)

[USB](#)


[Memory card](#)

[Software](#)

[Computer](#)

[NFC/One-touch functions](#)

User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)


Apps

[Display](#)

[Software](#)

[Go to Page Top](#)

User Guide

 How to Use

 Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

Network / Internet

[LAN](#)

[Wi-Fi](#)

[BLUETOOTH](#)

 [Go to Page Top](#)




[Back](#) | [Back to Top](#)

Backup / Recovery

[Recovery](#)

[↑ Go to Page Top](#)

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet


Backup / Recovery

Security

Peripheral Devices

 List of Topics

User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)


Security

[Password](#)

[BIOS](#)

[↑ Go to Page Top](#)

User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

Peripheral Devices

[USB](#)

[Printer](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Troubleshooting

List of Topics

How to Use

Troubleshooting

[Back](#) | [Back to Top](#)

How to Use

Windows 8: The Basics

Power

- [Controlling the Power State of Your VAIO Computer \(Sleep Mode/Shutdown\)](#)
- [Restarting Your VAIO Computer](#)
- [Using Sleep Mode](#)
- [Entering Sleep Mode, Shutting Down, or Restarting](#)

Display

- [About the Start Screen and Menu](#)
- [Opening the Desktop](#)

Internet

- [Installing Apps from Windows Store](#)

Password

- [About User Account Types](#)
- [Switching from a Local Account to a Microsoft Account](#)

Apps

- [Switching User Accounts](#)
- [Viewing Running Apps](#)
- [Searching/Starting Apps, Settings, or Files](#)
- [Installing Apps from Windows Store](#)
- [Closing Apps](#)
- [Opening the App Menu](#)
- [Switching Apps](#)

Windows

- [Opening Windows Help and Support](#)

Menu

- [Opening Control Panel](#)
- [About the Start Screen and Menu](#)
- [Opening the Charms](#)
- [Opening the Desktop](#)

Windows 8

- [Controlling the Power State of Your VAIO Computer \(Sleep Mode/Shutdown\)](#)
- [Restarting Your VAIO Computer](#)
- [Using Sleep Mode](#)

Store

- [Switching User Accounts](#)
- [Installing Apps from Windows Store](#)

Help and Support

- [Opening Windows Help and Support](#)

User account

- [About User Account Types](#)
- [Switching from a Local Account to a Microsoft Account](#)

Parts Description

VAIO computer

- [Parts and Controls on the Front](#)
- [Parts and Controls on the Bottom](#)
- [Parts and Controls on the Sides](#)

Setup

VAIO computer

- [Notes on Adding and Removing Memory Modules](#)
- [Adding and Removing Memory Modules](#)
- [Setting Up an Appropriate Work Environment](#)
- [Checking Supplied Items](#)

Power

- [Controlling the Power State of Your VAIO Computer \(Sleep Mode/Shutdown\)](#)
- [Charging the Battery Pack](#)
- [Turning On Your VAIO Computer](#)
- [Connecting a Power Source](#)
- [Installing the Battery Pack](#)
- [Removing the Battery Pack](#)

Battery

- [Charging the Battery Pack](#)
- [Notes on Using the Battery Pack](#)
- [Installing the Battery Pack](#)
- [Removing the Battery Pack](#)

Memory module

- [Notes on Adding and Removing Memory Modules](#)
- [Adding and Removing Memory Modules](#)

Supplied items

- [Checking Supplied Items](#)

Windows 8

- [Controlling the Power State of Your VAIO Computer \(Sleep Mode/Shutdown\)](#)

Network / Internet

Internet

- [Using the Antivirus App for Your VAIO Computer](#)
- [Installing Apps from Windows Store](#)
- [Notes on Using the Wi-Fi\(R\) \(Wireless LAN\) Function](#)

- [Disabling the Wi-Fi\(R\) \(Wireless LAN\) Function](#)
- [About the Wi-Fi\(R\) \(Wireless LAN\) Standards](#)
- [Stopping Wi-Fi\(R\) \(Wireless LAN\) Communications](#)
- [Connecting to the Internet with a Wired Connection](#)
- [About the Internet Connection Services](#)
- [About the Network \(LAN\)](#)
- [About a Security Key for Wi-Fi\(R\) \(Wireless LAN\)](#)
- [Starting Wi-Fi\(R\) \(Wireless LAN\) Communications](#)

LAN

- [About the Wi-Fi\(R\) \(Wireless LAN\) Standards](#)
- [Connecting to the Internet with a Wired Connection](#)
- [About the Internet Connection Services](#)
- [About the Network \(LAN\)](#)
- [About a Security Key for Wi-Fi\(R\) \(Wireless LAN\)](#)

Wi-Fi

- [Notes on Using the Wi-Fi\(R\) \(Wireless LAN\) Function](#)
- [Disabling the Wi-Fi\(R\) \(Wireless LAN\) Function](#)
- [About the Wi-Fi\(R\) \(Wireless LAN\) Standards](#)
- [Stopping Wi-Fi\(R\) \(Wireless LAN\) Communications](#)
- [About the Internet Connection Services](#)
- [About a Security Key for Wi-Fi\(R\) \(Wireless LAN\)](#)
- [Starting Wi-Fi\(R\) \(Wireless LAN\) Communications](#)

Apps

- [Installing Apps from Windows Store](#)

Store

- [Installing Apps from Windows Store](#)

Connections

Power

- [Connecting a Power Source](#)
- [Installing the Battery Pack](#)
- [Removing the Battery Pack](#)

Battery

- [Installing the Battery Pack](#)
- [Removing the Battery Pack](#)

Display

- [Connecting a TV with an HDMI Input Port](#)
- [Selecting Display Modes](#)
- [Using the Multiple Monitors Function](#)
- [Notes on the LCD screen](#)
- [Changing the Resolution \(Size\) of the Screen Image on an HDMI-Connected Device](#)

HDMI

- [Connecting a TV with an HDMI Input Port](#)

Changing the Resolution (Size) of the Screen Image on an HDMI-Connected Device

Peripheral device

- [Connecting a TV with an HDMI Input Port](#)
- [Selecting Display Modes](#)
- [Using the Multiple Monitors Function](#)
- [Notes on the LCD screen](#)
- [Connecting an External Microphone \(Microphone jack equipped models\)](#)
- [Changing the Sound Output Device](#)
- [Connecting a High-Quality Digital Sound Output Device between Your VAIO Computer and a TV](#)

CD/DVD/BD

- [Connecting an External Drive](#)

Audio

- [Connecting External Speakers or Headphones](#)
- [Connecting an External Microphone \(Microphone jack equipped models\)](#)
- [Changing the Sound Output Device](#)
- [Connecting a High-Quality Digital Sound Output Device between Your VAIO Computer and a TV](#)

Speakers

- [Connecting External Speakers or Headphones](#)

Headphones

- [Connecting External Speakers or Headphones](#)

Microphone

- [Connecting an External Microphone \(Microphone jack equipped models\)](#)

Optical digital output

- [Connecting a High-Quality Digital Sound Output Device between Your VAIO Computer and a TV](#)

Internet

- [Notes on Using the Wi-Fi\(R\) \(Wireless LAN\) Function](#)
- [Disabling the Wi-Fi\(R\) \(Wireless LAN\) Function](#)
- [About the Wi-Fi\(R\) \(Wireless LAN\) Standards](#)
- [Stopping Wi-Fi\(R\) \(Wireless LAN\) Communications](#)
- [Connecting to the Internet with a Wired Connection](#)
- [About the Internet Connection Services](#)
- [About the Network \(LAN\)](#)
- [About a Security Key for Wi-Fi\(R\) \(Wireless LAN\)](#)
- [Starting Wi-Fi\(R\) \(Wireless LAN\) Communications](#)

LAN

- [About the Wi-Fi\(R\) \(Wireless LAN\) Standards](#)
- [Connecting to the Internet with a Wired Connection](#)
- [About the Internet Connection Services](#)
- [About the Network \(LAN\)](#)
- [About a Security Key for Wi-Fi\(R\) \(Wireless LAN\)](#)

Wi-Fi

- [Notes on Using the Wi-Fi\(R\) \(Wireless LAN\) Function](#)
- [Disabling the Wi-Fi\(R\) \(Wireless LAN\) Function](#)
- [About the Wi-Fi\(R\) \(Wireless LAN\) Standards](#)
- [Stopping Wi-Fi\(R\) \(Wireless LAN\) Communications](#)
- [About the Internet Connection Services](#)
- [About a Security Key for Wi-Fi\(R\) \(Wireless LAN\)](#)
- [Starting Wi-Fi\(R\) \(Wireless LAN\) Communications](#)

BLUETOOTH

- [Notes on Using the BLUETOOTH\(R\) Function](#)
- [About BLUETOOTH\(R\) Security](#)
- [Stopping BLUETOOTH\(R\) Communications](#)
- [Communicating with Another BLUETOOTH\(R\) Device such as a Mouse](#)
- [About the BLUETOOTH\(R\) Function](#)

USB

- [Connecting a USB Device](#)
- [Charging a USB Device](#)

Settings

VAIO computer

- [About the ASSIST Button](#)
- [Booting Your VAIO Computer from External Devices](#)
- [Keeping Your VAIO Computer in Optimum Condition \(VAIO Care\)](#)
- [Updating Your VAIO Computer](#)
- [Using VAIO Update](#)
- [Viewing the System Information](#)
- [Customizing Your VAIO Computer](#)

Power

- [Selecting a Power Plan](#)
- [Using Sleep Mode](#)
- [Notes on Sleep Mode](#)
- [Notes on Using the Power Source](#)

Display

- [Enlarging the Text Size \(DPI\) \(Touch screen equipped models\)](#)
- [Notes on Using the Touch Screen \(Touch screen equipped models\)](#)
- [Changing the Resolution \(Size\) of the Screen Image](#)
- [Connecting a TV with an HDMI Input Port](#)
- [Selecting Display Modes](#)
- [Using the Multiple Monitors Function](#)
- [Notes on the LCD screen](#)
- [How to Use the Touch Screen \(Touch screen equipped models\)](#)
- [Changing the Resolution \(Size\) of the Screen Image on an HDMI-Connected Device](#)
- [Changing the LCD Brightness](#)

HDMI

- [Connecting a TV with an HDMI Input Port](#)

[Changing the Resolution \(Size\) of the Screen Image on an HDMI-Connected Device](#)

Peripheral device

- [Connecting a TV with an HDMI Input Port](#)
- [Selecting Display Modes](#)
- [Using the Multiple Monitors Function](#)
- [Notes on the LCD screen](#)
- [Changing the Sound Output Device](#)
- [Connecting a High-Quality Digital Sound Output Device between Your VAIO Computer and a TV](#)

CD/DVD/BD

- [Booting Your VAIO Computer from External Devices](#)

Audio

- [Adjusting the Speakers Volume](#)
- [Changing the Sound Output Device](#)
- [Connecting a High-Quality Digital Sound Output Device between Your VAIO Computer and a TV](#)
- [Adjusting the Volume in Windows](#)
- [Adjusting the Microphone Volume](#)
- [Playing Optimized Sound for Your VAIO Computer Using the ClearAudio+ Mode](#)

Speakers

- [Adjusting the Speakers Volume](#)
- [Playing Optimized Sound for Your VAIO Computer Using the ClearAudio+ Mode](#)

Microphone

- [Adjusting the Microphone Volume](#)

Optical digital output

- [Connecting a High-Quality Digital Sound Output Device between Your VAIO Computer and a TV](#)

Button

- [About the ASSIST Button](#)

Recovery

- [About the ASSIST Button](#)

Keyboard

- [Changing the Keyboard Backlight Settings \(Keyboard backlight equipped models\)](#)

Touch pad

- [Enabling/Disabling the Gesture Function](#)
- [Disabling the Tapping Function on the Touch Pad](#)
- [Enabling/Disabling the Touch Pad](#)
- [Using the Touch Pad](#)

Camera

- [Using the Built-in Camera \(Built-in camera equipped models\)](#)

Internet

- [Using the Antivirus App for Your VAIO Computer](#)

Password

- [Setting/Changing the Power-on Password](#)
- [Creating/Changing/Removing Your Windows Password](#)
- [Removing the Power-on Password](#)
- [Switching from a Local Account to a Microsoft Account](#)

Memory module

- [Viewing the System Information](#)

BIOS

- [About the ASSIST Button](#)
- [Setting/Changing the Power-on Password](#)
- [Booting Your VAIO Computer from External Devices](#)
- [Removing the Power-on Password](#)

Service and support

- [Keeping Your VAIO Computer in Optimum Condition \(VAIO Care\)](#)
- [Updating Your VAIO Computer](#)
- [Using VAIO Update](#)

Touch panel

- [Enlarging the Text Size \(DPI\) \(Touch screen equipped models\)](#)
- [Notes on Using the Touch Screen \(Touch screen equipped models\)](#)
- [How to Use the Touch Screen \(Touch screen equipped models\)](#)

Security

- [Updating Your VAIO Computer](#)

Menu

- [Opening Control Panel](#)

Windows 8

- [Using Sleep Mode](#)

User account

- [Switching from a Local Account to a Microsoft Account](#)

Playback

CD/DVD/BD

- [Inserting/Removing a Disc \(Optical disc drive equipped models\)](#)
- [About Region Codes \(Optical disc drive equipped models\)](#)
- [Supported Discs \(Optical disc drive equipped models\)](#)

Backup / Recovery

VAIO computer

- [About the ASSIST Button](#)
- [Booting Your VAIO Computer from External Devices](#)
- [Keeping Your VAIO Computer in Optimum Condition \(VAIO Care\)](#)

CD/DVD/BD

- [Booting Your VAIO Computer from External Devices](#)

Button

- [About the ASSIST Button](#)

Recovery

- [About the ASSIST Button](#)
- [Removing Recovery Content to Free up Disk Space](#)
- [Recovering from Recovery Media](#)
- [Creating Recovery Media](#)
- [Checking the Volume of the Recovery Area](#)
- [Notes on Recovery](#)
- [About Recovery](#)
- [Recovering from the Recovery Area](#)
- [Refreshing Your VAIO Computer](#)

BIOS

- [About the ASSIST Button](#)
- [Booting Your VAIO Computer from External Devices](#)

Backup

- [About Types of Backup](#)
- [About Backup](#)
- [Creating a Restore Point](#)
- [Restoring System Files Using the Restore Point when You cannot Start Windows](#)
- [Backing Up Your Data when You cannot Start Windows](#)
- [Restoring Your Data with VAIO Data Restore Tool](#)

Service and support

- [Keeping Your VAIO Computer in Optimum Condition \(VAIO Care\)](#)

Built-in storage device

- [Removing Recovery Content to Free up Disk Space](#)
- [Creating Partitions](#)
- [Creating Other Drives \(Modifying Partitions\)](#)
- [Checking the Volume of the Recovery Area](#)

Partition

- [Creating Partitions](#)
- [Creating Other Drives \(Modifying Partitions\)](#)

Refresh

- [About Recovery](#)
- [Refreshing Your VAIO Computer](#)

Security

VAIO computer

- [Keeping Your VAIO Computer in Optimum Condition \(VAIO Care\)](#)
- [Using VAIO Update](#)

Internet

- [Using the Antivirus App for Your VAIO Computer](#)

Password

- [Setting/Changing the Power-on Password](#)
- [Creating/Changing/Removing Your Windows Password](#)
- [Removing the Power-on Password](#)

BIOS

- [Setting/Changing the Power-on Password](#)
- [Removing the Power-on Password](#)

Service and support

- [Keeping Your VAIO Computer in Optimum Condition \(VAIO Care\)](#)
- [Using VAIO Update](#)

Other Operations

VAIO computer

- [Notes on Adding and Removing Memory Modules](#)
- [Adding and Removing Memory Modules](#)

Power

- [Controlling the Power State of Your VAIO Computer \(Sleep Mode/Shutdown\)](#)
- [Restarting Your VAIO Computer](#)
- [Charge Indicator Status List](#)
- [Using Sleep Mode](#)
- [Charging the Battery Pack](#)
- [Turning On Your VAIO Computer](#)
- [About Sleep Mode](#)
- [Changing the Rapid Wake \(Sleep Mode\) Settings](#)

Battery

- [Charge Indicator Status List](#)
- [Charging the Battery Pack](#)
- [Extending the Battery Life](#)
- [About Sleep Mode](#)
- [Changing the Rapid Wake \(Sleep Mode\) Settings](#)
- [Checking the Battery Charge Capacity](#)

Display

- [Notes on Using the Touch Screen \(Touch screen equipped models\)](#)
- [How to Use the Touch Screen \(Touch screen equipped models\)](#)
- [About the Touch Screen \(Touch screen equipped models\)](#)

CD/DVD/BD

- [Inserting/Removing a Disc \(Optical disc drive equipped models\)](#)

Keyboard

- [Entering Characters with Touch Screen Operations \(Touch screen equipped models\)](#)
- [Combinations and Functions with the Fn Key](#)

Touch pad

- [Using the Touch Pad](#)

Camera

[Notes on the Built-in Camera \(Built-in camera equipped models\)](#)

- [Using the Built-in Camera \(Built-in camera equipped models\)](#)

Memory module

- [Notes on Adding and Removing Memory Modules](#)
- [Adding and Removing Memory Modules](#)

USB

- [Connecting a USB Device](#)
- [Charging a USB Device](#)

Memory card

- [Inserting SD Memory Cards](#)
- [Notes on Using SD Memory Cards](#)
- [Removing SD Memory Cards](#)

Built-in storage device

- [Creating Partitions](#)
- [Creating Other Drives \(Modifying Partitions\)](#)

Touch panel

- [Notes on Using the Touch Screen \(Touch screen equipped models\)](#)
- [How to Use the Touch Screen \(Touch screen equipped models\)](#)
- [About the Touch Screen \(Touch screen equipped models\)](#)
- [Entering Characters with Touch Screen Operations \(Touch screen equipped models\)](#)

Partition

- [Creating Partitions](#)
- [Creating Other Drives \(Modifying Partitions\)](#)

NFC/One-touch functions

- [Notes on NFC/One-touch functions \(NFC supported models\)](#)
- [Disabling NFC/One-touch functions \(NFC supported models\)](#)
- [About One-touch functions \(NFC supported models\)](#)
- [About NFC \(NFC supported models\)](#)
- [Using NFC/One-touch functions \(NFC supported models\)](#)

Windows

- [Opening Windows Help and Support](#)

Windows 8

- [Controlling the Power State of Your VAIO Computer \(Sleep Mode/Shutdown\)](#)
- [Restarting Your VAIO Computer](#)
- [Using Sleep Mode](#)

Help and Support

- [Opening Windows Help and Support](#)

Notifications

Read this first

- [Read This First](#)

VAIO computer

- [Setting Up an Appropriate Work Environment](#)
- [Checking Supplied Items](#)
- [Updating Your VAIO Computer](#)

CD/DVD/BD

- [About Region Codes \(Optical disc drive equipped models\)](#)
- [Handling Discs \(Optical disc drive equipped models\)](#)
- [Supported Discs \(Optical disc drive equipped models\)](#)
- [Notes on Using Discs \(Optical disc drive equipped models\)](#)

Care and maintenance

- [Cleaning Your VAIO computer/LCD screen](#)

Important notice

- [Safety Information](#)
- [Handling the Built-in Storage Device](#)
- [About the Software License](#)
- [Trademarks](#)
- [About the International ENERGY STAR\(R\) Program](#)

Service and support

- [About Online Support Website](#)
- [Updating Your VAIO Computer](#)
- [Solving Common Problems with Your VAIO Computer](#)

Product registration

- [About Online Support Website](#)

Supplied items

- [Checking Supplied Items](#)

Security

- [Updating Your VAIO Computer](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Troubleshooting

List of Topics

How to Use

Troubleshooting

[Back](#) | [Back to Top](#)

Troubleshooting

Hardware

Power

- [Why does a message appear and Windows fail to start when I turn on my VAIO computer?](#)
- [What should I do if my VAIO computer does not turn on or the power button does not work \(the charge indicator light blinks fast\)?](#)
- [Why does my VAIO computer automatically turn off?](#)
- [What should I do if I cannot turn off my VAIO computer?](#)
- [What should I do if the power indicator light turns on in green when I press the power button but the screen remains blank?](#)
- [What should I do if my VAIO computer does not turn on \(the power indicator light does not turn on in green\)?](#)
- [What should I do if the VAIO Care \(Rescue Mode\) screen appears when I turn on my VAIO computer?](#)
- [What should I do if my VAIO computer does not return to Normal mode with keyboard or touch pad operations during Sleep mode?](#)
- [What should I do if Hibernate mode is not available or my VAIO computer does not enter Hibernate mode?](#)

Battery

- [What should I do if a message appears indicating that the battery pack is incompatible or has been incorrectly installed, after which my VAIO computer enters Hibernate mode?](#)
- [Why cannot I fully charge my battery pack?](#)
- [Why is my VAIO computer running slowly and the CPU clock frequency low while the computer is running on battery power?](#)

Display

- [What should I do if captured images flicker?](#)
- [Why does the viewfinder show no images or poor-quality images?](#)
- [What should I do if captured images contain dropped frames and audio interruptions?](#)
- [Why do sound interruptions and/or dropped frames occur when I play high-definition videos, such as those recorded with the AVCHD digital video camcorder?](#)
- [How do I change the LCD brightness?](#)
- [What should I do if no image is displayed on my external display or TV screen?](#)
- [What should I do if videos are not displayed smoothly?](#)
- [What should I do if no image is displayed on my TV screen or external display connected to the HDMI output port?](#)
- [What should I do if videos are not displayed on the computer screen?](#)
- [What should I do if my computer screen goes blank?](#)
- [What should I do if some items do not fit on the computer screen?](#)

HDMI

- [What should I do if no image is displayed on my TV screen or external display](#)

connected to the HDMI output port?

CD/DVD/BD

- Why does it take time to write data to DVD writable media?
- What should I do if I cannot remove the disc from the optical disc drive?
- Why can't I write data to a disc?
- What should I do if I cannot play a disc, or dropped frames and/or sound interruptions occur during playback?

Audio

- What should I do if my microphone does not work?
- What should I do if I hear microphone feedback from speakers when using my microphone?
- What should I do if I do not hear sound from speakers or headphones?
- What should I do if sound interruptions occur during video or audio playback?
- What should I do if I do not hear sound from a digital audio device connected to the digital output port, such as the HDMI output port?

Microphone

- What should I do if my microphone does not work?
- What should I do if I hear microphone feedback from speakers when using my microphone?

Keyboard

- What should I do if my keyboard configuration is wrong?
- What should I do if I cannot enter certain characters with my keyboard?
- What should I do if my VAIO computer screen freezes?
- What should I do if the pointer does not move?
- What should I do if I cannot enter numbers with the numeric keypad?

Touch pad

- Why can't I use the touch pad?
- How do I avoid unintentional clicks caused by a light touch on the touch pad?
- How do I disable the touch pad?
- What should I do if my VAIO computer screen freezes?
- What should I do if the pointer does not move?

Camera

- What should I do if captured images flicker?
- Why is the video input from the built-in camera suspended momentarily?
- Why does the viewfinder show no images or poor-quality images?
- What should I do if captured images contain dropped frames and audio interruptions?
- Why are captured images poor in quality?

LAN

- How can I find the physical address (MAC address) of the built-in wireless network interface of my VAIO computer?
- What should I do if I cannot play back movies or audio tracks received via Wi-Fi(R) (Wireless LAN), or their playback is interrupted? Why is the data transfer speed slow?
- What should I do if I cannot use the Wi-Fi(R) (Wireless LAN) function?
- What should I do if I do not know the SSID or security key for the access point?
- What should I do if I cannot connect my VAIO computer to an access point (or the Internet)?

Wi-Fi

- How can I find the physical address (MAC address) of the built-in wireless network interface of my VAIO computer?
- What should I do if I cannot play back movies or audio tracks received via Wi-Fi(R) (Wireless LAN), or their playback is interrupted? Why is the data transfer speed slow?
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BLUETOOTH

- Why is my BLUETOOTH(R) connection slow?
- Why can't I use the BLUETOOTH(R) function when I sign in to my VAIO computer as a user with a standard user account?
- Why can't I use BLUETOOTH(R) devices when I switch users?
- What should I do if I cannot find the BLUETOOTH(R) device I want to communicate with?
- What should I do if the BLUETOOTH(R) icon is not displayed in the desktop notification area?
- What should I do if other BLUETOOTH(R) devices cannot connect to my VAIO computer?
- What should I do if I cannot use the BLUETOOTH(R) function?

Password

- What should I do if the Enter Onetime Password message appears and Windows does not start after I enter a wrong power-on password three times consecutively?
- What should I do if I forget the power-on password to start my VAIO computer?
- What should I do if I forget the Windows password?

BIOS

- What should I do if I forget the power-on password to start my VAIO computer?

USB

- What should I do if I cannot charge the device connected to the USB port that supports USB charging?

Memory card

- Why can't I write data to a memory card?

Software

- Why do sound interruptions and/or dropped frames occur when I play high-definition videos, such as those recorded with the AVCHD digital video camcorder?

Computer

- Why is my VAIO computer running slowly and the CPU clock frequency low while the computer is running on battery power?

NFC/One-touch functions

- What should I do if I cannot use NFC/One-touch functions?

Apps

Display

- Why do sound interruptions and/or dropped frames occur when I play high-

definition videos, such as those recorded with the AVCHD digital video camcorder?

Software

- What should I do if my game app does not work or it keeps crashing?
- Why do sound interruptions and/or dropped frames occur when I play high-definition videos, such as those recorded with the AVCHD digital video camcorder?

Network / Internet

LAN

- How can I find the physical address (MAC address) of the built-in wireless network interface of my VAIO computer?
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- What should I do if I cannot find the BLUETOOTH(R) device I want to communicate with?
- What should I do if the BLUETOOTH(R) icon is not displayed in the desktop notification area?
- What should I do if other BLUETOOTH(R) devices cannot connect to my VAIO computer?
- What should I do if I cannot use the BLUETOOTH(R) function?

Backup / Recovery

Recovery

- What should I do if my VAIO computer becomes unstable (Windows starts)?
- What should I do if my VAIO computer becomes unstable (Windows does not start)?
- What should I do if I cannot start/complete the recovery process?
- What should I do if I cannot create Recovery Media?
- How do I create Recovery Media?
- What should I do if I cannot recover my VAIO computer from the recovery area?

- How can I restore my VAIO computer system to its factory default settings?
- How can I reinstall the original apps and drivers?

Security

Password

- What should I do if the Enter Onetime Password message appears and Windows does not start after I enter a wrong power-on password three times consecutively?
- What should I do if I forget the power-on password to start my VAIO computer?
- What should I do if I forget the Windows password?

BIOS

- What should I do if I forget the power-on password to start my VAIO computer?

Peripheral Devices

USB

- What should I do if I cannot print a document?
- What should I do if my VAIO computer does not recognize the USB device?

Printer

- What should I do if I cannot print a document?
- What should I do if my VAIO computer does not recognize the USB device?

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

About Online Support Website

The online support website provides information concerning your VAIO computer, as well as a selection of frequently asked questions.

Sony online support website

- USA
<http://esupport.sony.com/US/VAIO/>
- Canada
<http://www.sony.ca/support/> (English)
<http://fr.sony.ca/support/> (French)
- Spanish-speaking Latin American countries or areas
<http://esupport.sony.com/LA/VAIO/>
- Brazil
<http://esupport.sony.com/BR/VAIO/>

Hint

- If you experience any problem or have a technical question about your VAIO computer, launch **VAIO Care** first, which offers you various options to help you solve the problem. See [Keeping Your VAIO Computer in Optimum Condition \(VAIO Care\)](#) for more information.
- When you contact VAIO support, you may be asked for the serial number and the model number of your VAIO computer. The serial number is a 15-digit number that can be found:
 - in the **VAIO Care** window;
 - on the bottom, on the back panel of the computer, inside the back panel or inside the battery compartment;
 - on the original VAIO box.

The model number is located at the lower right corner of the display on the VAIO computer.

Other websites

You can also find useful information at the following Web sites.

Sony products

<http://www.sony.net/>

<http://www.sony.net/electronics/>

Operating system online support website

For Microsoft Windows operating system support, visit the Microsoft customer support site.

<http://support.microsoft.com/>

In Store Service & Support (available in USA only)

Make an appointment with a Sony certified technician at a U.S. Sony Store and get personalized service and support for your VAIO computer. Sony Technicians can assist with the setup of your new VAIO computer, system optimization, data

rescue, and any repair service you might need.

<http://www.sony.com/store/>

Sony Community

Visit our community support site to ask for help and share your knowledge.

<http://community.sony.com/>

Environmental sustainability

For Sony's environmental initiatives and recycling of your products, visit our sustainability site.

<http://www.sony.com/green/>

Hint

- You can find a link to register your computer online in **VAIO Care**. To start **VAIO Care**, see [Searching/Starting Apps, Settings, or Files](#).

[↑ Go to Page Top](#)

Related Topic

- [Read This First](#)
- [Keeping Your VAIO Computer in Optimum Condition \(VAIO Care\)](#)

[↑ Go to Page Top](#)

[Back](#) | [Back to Top](#) [Print](#)

User Guide

How to Use

Troubleshooting

List of Topics

Welcome

Congratulations on the purchase of this VAIO computer.

This **User Guide - Introduction Version** provides you with limited information about your VAIO computer.

To update this file to the complete version of the **User Guide**, see **Updating the User Guide to the Latest Version** for more information.

Your VAIO computer may not support touch screen operations depending on the model you purchased. In such a case, use a mouse or a touch pad for computer operations.

Content in this guide is subject to change without notice.

Read This First

Updating the User Guide to the Latest Version

By updating this **User Guide - Introduction Version** through the Internet, you can get the complete version of the **User Guide** with detailed information on your VAIO computer.

Once the **User Guide** is updated to the complete version, you can access it anytime even if you are offline.

With the complete version of the **User Guide**, you can view information about:

- Parts description
- Feature and operating instructions
- Precautions
- Troubleshooting information
- Windows 8 basic operations

To update the User Guide to the complete version

To update this **User Guide - Introduction Version** to the complete version of the **User Guide**, open this file with your VAIO computer connected to the Internet. After a while, the file will be updated to the latest complete version of the **User Guide** automatically.

To view the updated **User Guide**, exit this file and open the file again.

Note

- Be sure to use **VAIO Update** before updating the **User Guide** to the complete version.

Hint

- It may take some time to complete the update.
- The **User Guide** is displayed on **VAIO Care**.

To view help files for Windows OS and app operations

When you have trouble operating your VAIO computer, try referring to **Windows Help and Support** or help files included with your apps.

To access **Windows Help and Support**, open the charms and enter "Help and

Support" in the search box.

Connecting to the Internet

You will need to connect your VAIO computer to the Internet before updating to the complete version of the **User Guide**.

Before connecting to the Internet

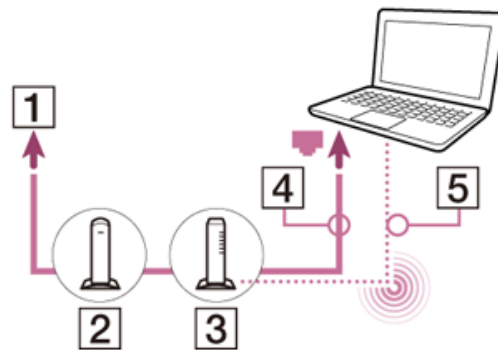
Before using the Internet, you will need to sign up with an Internet Service Provider (ISP) and set up devices required for connecting your VAIO computer to the Internet.

The following types of Internet connection services may be available from your ISP:

- Fiber to the Home (FTTH)
- Digital Subscriber Line (DSL)
- Cable modem
- Satellite
- Dial-up

For more information on devices required for Internet access and how to connect your VAIO computer to the Internet, ask your ISP.

The following is one of the Internet connection methods as an example.



- 1 Internet
- 2 Modem
- 3 Router/access point
- 4 LAN cable (not supplied)
- 5 Wi-Fi(R) (Wireless LAN)

To use the Wi-Fi network

1. Open the charms and select the **Settings** charm.
2. Select (the network icon).
3. Select your desired network (SSID) from the list and **Connect**.

Note

- For detailed information on network settings and devices, refer to the information from your Internet Service Provider (ISP) or the manuals that came with your network devices.

To use the network (LAN) (LAN port equipped models)

You can connect your VAIO computer to networks with a LAN cable. Connect one end of a LAN cable to the LAN port on the computer and the other end to your network. For detailed settings and devices required for LAN access, ask your network administrator.

Note

- The connection, setting method, or required devices may vary depending on your network environment.

Updating Your VAIO Computer


Be sure to update your VAIO computer to enhance the computer's efficiency, security, and functionality.

Note

- Your VAIO computer must be connected to the Internet to download the updates.


To use Windows Update

Windows Update enables you to make your VAIO computer more stable.

1. Open the charms and select the  **Search** charm.
2. Select **Settings**.
3. Enter "Windows Update" in the search box.
4. Select **Windows Update** from the list.
5. Follow the on-screen instructions to complete the updates.


To use VAIO Update

VAIO Update automatically notifies you of new updates available on the Internet then downloads and installs them on your VAIO computer.

1. Open the charms and select the  **Search** charm.
2. Select **Apps**.
3. Enter "VAIO Update" in the search box.
4. Select **VAIO Update** from the list.
5. Follow the on-screen instructions to complete the updates.

To update the antivirus app

The antivirus app helps protect your VAIO computer against security threats by keeping the app current with the latest updates. You can download and install the updates from the website of the manufacturer.

1. Open the charms and select the  **Search** charm.
2. Select **Apps**.
3. Enter the antivirus app name in the search box.
4. Select the antivirus app from the list.
5. Follow the on-screen instructions to complete the updates.

Solving Problems on Your VAIO Computer Using VAIO Care

With **VAIO Care**, you can regularly conduct performance checks and system tune-ups on your VAIO computer to keep it running at optimum level. Start **VAIO Care** whenever a problem arises. **VAIO Care** will provide appropriate measures and support information to solve the problem.

To start VAIO Care


Press the **ASSIST** button while your VAIO computer is on.

Below is an example of a screenshot in English.



* Design and content of the screen are subject to change.

Hint

- Alternatively, search for **VAIO Care (Desktop)** on the  **Search** charm to start **VAIO Care**.
- Refer to the help file included with **VAIO Care** for more information.
- Pressing the **ASSIST** button while your VAIO computer is off displays the **VAIO Care (Rescue Mode)** screen. In this screen, you can start the recovery process of the computer in case of emergency, for example, when Windows does not start.

Finding Support Information

The Sony online support website provides instant access to information on commonly encountered problems. You can find support information such as the support website URL in **Contact & Support** on **VAIO Care** or the supplied **Quick Start Guide**.

Windows 8 : How to Start

About the Start Screen and Menu

You can place the shortcuts to apps, the desktop, and websites that you use the most.

Overview



- 1** Tiles
Touch operation

Tap a tile to start an app and personalize the **Start** screen by adding and rearranging tiles.

Mouse/Touch pad operation

Click a tile to start an app and personalize the **Start** screen by adding and rearranging tiles.

2 Charms

Search for apps and files, share content, play content on other devices or print, and set up your VAIO computer.

To open the Start screen


Touch operation

Open the charms, then tap the  **Start** charm.

Mouse/Touch pad operation

Open the charms, then click the  **Start** charm.

Keyboard operation

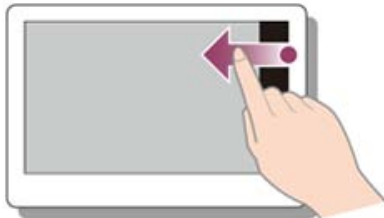
Press the  (Windows) key.



Opening the Charms

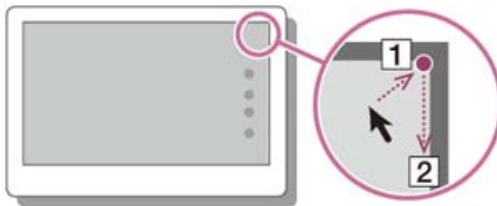
Touch operation

Swipe in from the right edge.



Mouse operation

Point to the upper-right corner (**1**), then move downward (**2**).




Keyboard operation

Press the  (Windows) key and the **C** key at the same time.



Searching/Starting Apps, Settings, or Files

1. Open the charms and select the  **Search** charm.
2. Select **Apps**, **Settings**, or **Files** (**1**).

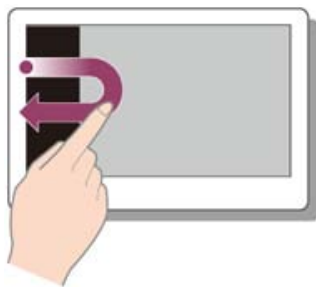
3. Enter a keyword (e.g. **Control Panel**) in the search box (**2**).
4. Select your desired app, setting, or file (**3**).



Viewing Running Apps

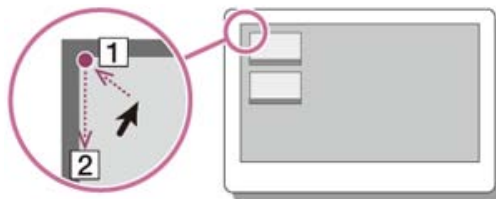
Touch operation

Swipe in from the left edge until a small app icon appears. Then, drag the icon back towards the left edge.




Mouse/Touch pad operation

Point to the upper-left corner (**1**), then move downward (**2**).



Keyboard operation

Press the  (Windows) key and the **Tab** key at the same time.



Switching Apps

You can switch between apps that are currently running.

Touch operation

Display currently running apps, touch your desired app icon, and swipe in from the left edge.

Mouse/Touch pad operation

Display currently running apps and drag your desired app icon from the left edge to the center.



Opening the Apps Menu

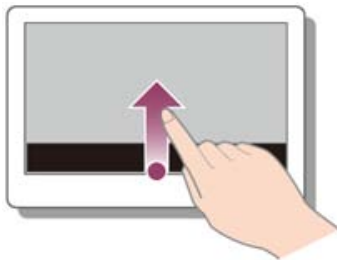
Many apps have app menus that you can use to control your app. Follow the instructions below to open the app menu.

Hint

- Open the app menu when an app is displayed on the computer screen.
- App commands vary depending on the app that is currently displayed on the computer screen.

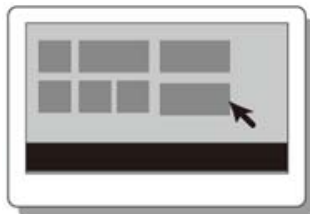
Touch operation

Swipe up from the bottom edge.



Mouse/Touch pad operation

Right-click within an app.



Keyboard operation

Press the  (Windows) key and the **Z** key at the same time.



Closing Apps

You can close currently running apps by following the instruction below.

Hint

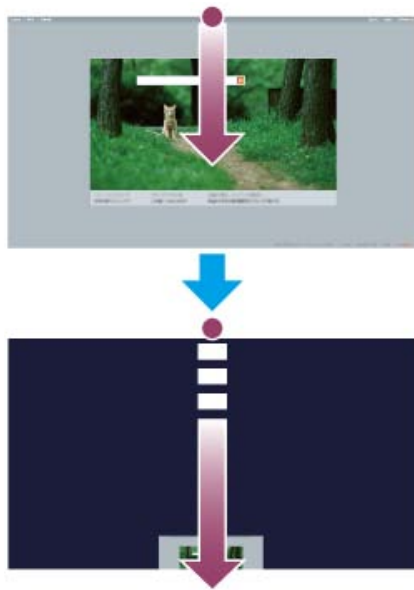
- The app window becomes smaller in the bottom of the screen.
Drag the window to the bottom-center edge.

Touch operation

1. When an app is open, point to the top-center of the screen.
2. Drag the app to the bottom of the screen until the app disappears from the screen.

Mouse/Touch pad operation

1. When an app is open, move the cursor to the top-center of the screen until the hand icon appears.
2. Drag the app to the bottom of the screen until the app disappears from the screen.



Keyboard operation

Press the **Alt** key and the **F4** key at the same time.



Installing Apps from Windows Store

You can add apps from **Windows Store**.

Internet connection is necessary to access **Windows Store**. You also need to sign in with a Microsoft account.

On how to create and what you can do with the Microsoft account, refer to

Windows Help and Support.





1. Open the **Start** screen, select the **Store** tile, and then find an app to install.



2. Select your desired app.
3. Follow the on-screen instructions to download and install the app.



Opening Windows Help and Support

You can open **Windows Help and Support** by following these steps.

1. Open the charms and select the  **Search** charm.
2. Select **Apps** ().
3. Enter "Help and Support" in the search box ().
4. Select **Help and Support** ().



Entering Sleep or Shutting Down

1. Open the charms and select the  **Settings** charm.
2. Select  (**Power**), then select **Sleep**, **Shut down**, or **Restart**.



Trademarks

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- Windows and the Windows logo are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- Wi-Fi is a trademark or registered trademark of Wi-Fi Alliance.
- All other names of system, products, and services are trademarks of their respective owners.
- In the manual, the TM or (R) marks are not specified.

[↑ Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

Opening Windows Help and Support

You can open **Windows Help and Support** by following these steps.

1. Open the charms and select the **Search** charm. (See [Opening the Charms](#) to open the charms.)
2. Select **Apps** (**1**).
3. Enter "Help and Support" in the search box (**2**).
4. Select **Help and Support** (**3**).



[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Power

[Controlling the Power State of Your VAIO Computer \(Sleep Mode/Shutdown\)](#)

By default, your VAIO computer automatically enters Sleep mode after a certain period of inactivity.

[Restarting Your VAIO Computer](#)

After changing the settings or installing an app on your VAIO computer, you may be required to restart the computer.

[Using Sleep Mode](#)

In Sleep mode, you can step away from your VAIO computer while retaining the computer's state including data you are working on.

[Entering Sleep Mode, Shutting Down, or Restarting](#)

You can place your VAIO computer into Sleep mode or shut down/restart the computer by following these steps.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Charging the Battery Pack](#)
- [Turning On Your VAIO Computer](#)
- [Connecting a Power Source](#)
- [Installing the Battery Pack](#)
- [Removing the Battery Pack](#)
- [Selecting a Power Plan](#)
- [Notes on Sleep Mode](#)
- [Notes on Using the Power Source](#)
- [Charge Indicator Status List](#)
- [About Sleep Mode](#)
- [Changing the Rapid Wake \(Sleep Mode\) Settings](#)
- [Why does a message appear and Windows fail to start when I turn on my VAIO computer?](#)
- [What should I do if my VAIO computer does not turn on or the power button does not work \(the charge indicator light blinks fast\)?](#)
- [Why does my VAIO computer automatically turn off?](#)
- [What should I do if I cannot turn off my VAIO computer?](#)
- [What should I do if the power indicator light turns on in green when I press the power button but the screen remains blank?](#)
- [What should I do if my VAIO computer does not turn on \(the power indicator](#)

light does not turn on in green)?

- What should I do if the VAIO Care (Rescue Mode) screen appears when I turn on my VAIO computer?
- What should I do if my VAIO computer does not return to Normal mode with keyboard or touch pad operations during Sleep mode?
- What should I do if Hibernate mode is not available or my VAIO computer does not enter Hibernate mode?

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Display

About the Start Screen and Menu

You can add shortcuts to apps, the desktop, and websites that you use the most.

Opening the Desktop

You can access the desktop from a tile, just like an app. Open the desktop by following the instruction below.

[Go to Page Top](#)

You might be looking for the following topics:

- [Connecting a TV with an HDMI Input Port](#)
- [Selecting Display Modes](#)
- [Using the Multiple Monitors Function](#)
- [Notes on the LCD screen](#)
- [Changing the Resolution \(Size\) of the Screen Image on an HDMI-Connected Device](#)
- [Enlarging the Text Size \(DPI\) \(Touch screen equipped models\)](#)
- [Notes on Using the Touch Screen \(Touch screen equipped models\)](#)
- [Changing the Resolution \(Size\) of the Screen Image](#)
- [How to Use the Touch Screen \(Touch screen equipped models\)](#)
- [Changing the LCD Brightness](#)
- [About the Touch Screen \(Touch screen equipped models\)](#)
- [What should I do if captured images flicker?](#)
- [Why does the viewfinder show no images or poor-quality images?](#)
- [What should I do if captured images contain dropped frames and audio interruptions?](#)
- [Why do sound interruptions and/or dropped frames occur when I play high-definition videos, such as those recorded with the AVCHD digital video camcorder?](#)
- [How do I change the LCD brightness?](#)
- [What should I do if no image is displayed on my external display or TV screen?](#)
- [What should I do if videos are not displayed smoothly?](#)
- [What should I do if no image is displayed on my TV screen or external display connected to the HDMI output port?](#)
- [What should I do if videos are not displayed on the computer screen?](#)
- [What should I do if my computer screen goes blank?](#)
- [What should I do if some items do not fit on the computer screen?](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Internet

[Installing Apps from Windows Store](#)

You can install apps from Windows Store.

[Go to Page Top](#)

You might be looking for the following topics:

- [Using the Antivirus App for Your VAIO Computer](#)
- [Notes on Using the Wi-Fi\(R\) \(Wireless LAN\) Function](#)
- [Disabling the Wi-Fi\(R\) \(Wireless LAN\) Function](#)
- [About the Wi-Fi\(R\) \(Wireless LAN\) Standards](#)
- [Stopping Wi-Fi\(R\) \(Wireless LAN\) Communications](#)
- [Connecting to the Internet with a Wired Connection](#)
- [About the Internet Connection Services](#)
- [About the Network \(LAN\)](#)
- [About a Security Key for Wi-Fi\(R\) \(Wireless LAN\)](#)
- [Starting Wi-Fi\(R\) \(Wireless LAN\) Communications](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Password

About User Account Types

There are two types of user accounts available in Windows 8: a local account and a Microsoft account.

Switching from a Local Account to a Microsoft Account

In Windows 8, you can switch between a local account and a Microsoft account.

[Go to Page Top](#)

You might be looking for the following topics:

- [Setting/Changing the Power-on Password](#)
- [Creating/Changing/Removing Your Windows Password](#)
- [Removing the Power-on Password](#)
- [What should I do if the Enter Onetime Password message appears and Windows does not start after I enter a wrong power-on password three times consecutively?](#)
- [What should I do if I forget the power-on password to start my VAIO computer?](#)
- [What should I do if I forget the Windows password?](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Apps

[Switching User Accounts](#)

You can switch to another user account by following these steps.

[Viewing Running Apps](#)

You can view running apps by displaying the list on the Start screen.

[Searching/Starting Apps, Settings, or Files](#)

You can search apps, files, or settings on the charms, and then start your desired apps, files, or settings.

[Installing Apps from Windows Store](#)

You can install apps from Windows Store.

[Closing Apps](#)

You can close currently running apps by following the instruction below.

[Opening the App Menu](#)

Many apps have app menus that you can use to control your app. Follow the instructions below to open the app menu.

[Switching Apps](#)

You can switch between apps that are currently running.

[Go to Page Top](#)



[Back](#) | [Back to Top](#)

Windows

[Opening Windows Help and Support](#)

You can open Windows Help and Support by following these steps.

[↑ Go to Page Top](#)

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Menu

[Opening Control Panel](#)

You can open Control Panel by following these steps.

[About the Start Screen and Menu](#)

You can add shortcuts to apps, the desktop, and websites that you use the most.

[Opening the Charms](#)

You can open the charms to search for apps and files, share content, play content on other devices or print, and set up your VAIO computer.

[Opening the Desktop](#)

You can access the desktop from a tile, just like an app. Open the desktop by following the instruction below.

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Windows 8

[Controlling the Power State of Your VAIO Computer \(Sleep Mode/Shutdown\)](#)

By default, your VAIO computer automatically enters Sleep mode after a certain period of inactivity.

[Restarting Your VAIO Computer](#)

After changing the settings or installing an app on your VAIO computer, you may be required to restart the computer.

[Using Sleep Mode](#)

In Sleep mode, you can step away from your VAIO computer while retaining the computer's state including data you are working on.

[↑ Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Store

[Switching User Accounts](#)

You can switch to another user account by following these steps.

[Installing Apps from Windows Store](#)

You can install apps from Windows Store.

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Help and Support

[Opening Windows Help and Support](#)

You can open Windows Help and Support by following these steps.

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

User account

[About User Account Types](#)

There are two types of user accounts available in Windows 8: a local account and a Microsoft account.

[Switching from a Local Account to a Microsoft Account](#)

In Windows 8, you can switch between a local account and a Microsoft account.

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

VAIO computer

[Parts and Controls on the Front](#)

Describes the features on the front of the VAIO computer, such as buttons and indicator lights.

[Parts and Controls on the Bottom](#)

Describes the features on the bottom of the VAIO computer.

[Parts and Controls on the Sides](#)

Describes the features on the sides of the VAIO computer, such as connection ports.

[Go to Page Top](#)

You might be looking for the following topics:

- [Notes on Adding and Removing Memory Modules](#)
- [Adding and Removing Memory Modules](#)
- [Setting Up an Appropriate Work Environment](#)
- [Checking Supplied Items](#)
- [About the ASSIST Button](#)
- [Booting Your VAIO Computer from External Devices](#)
- [Keeping Your VAIO Computer in Optimum Condition \(VAIO Care\)](#)
- [Updating Your VAIO Computer](#)
- [Using VAIO Update](#)
- [Viewing the System Information](#)
- [Customizing Your VAIO Computer](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

VAIO computer

[Notes on Adding and Removing Memory Modules](#)

Before adding or removing memory modules, read the following precautions thoroughly.

[Adding and Removing Memory Modules](#)

If you want to increase your computer's speed or improve performance when running programs simultaneously, increase the amount of memory by installing optional memory modules.

[Setting Up an Appropriate Work Environment](#)

This topic describes where to or not to place your VAIO computer and ergonomic instructions.

[Checking Supplied Items](#)

Check all items packed with the product before use.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Parts and Controls on the Front](#)
- [Parts and Controls on the Bottom](#)
- [Parts and Controls on the Sides](#)
- [About the ASSIST Button](#)
- [Booting Your VAIO Computer from External Devices](#)
- [Keeping Your VAIO Computer in Optimum Condition \(VAIO Care\)](#)
- [Updating Your VAIO Computer](#)
- [Using VAIO Update](#)
- [Viewing the System Information](#)
- [Customizing Your VAIO Computer](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Power

[Controlling the Power State of Your VAIO Computer \(Sleep Mode/Shutdown\)](#)

By default, your VAIO computer automatically enters Sleep mode after a certain period of inactivity.

[Charging the Battery Pack](#)

The battery pack can be charged even while you are using your VAIO computer when the computer is connected to a power source. The charging time may vary depending on operating conditions.

[Turning On Your VAIO Computer](#)

Turn on your VAIO computer to start Windows.

[Connecting a Power Source](#)

Connect your VAIO computer to an AC power source.

[Installing the Battery Pack](#)

Install the battery pack into the battery compartment of your VAIO computer.

[Removing the Battery Pack](#)

Remove the battery pack from the battery compartment of your VAIO computer.

[Go to Page Top](#)

You might be looking for the following topics:

- [Restarting Your VAIO Computer](#)
- [Using Sleep Mode](#)
- [Entering Sleep Mode, Shutting Down, or Restarting](#)
- [Selecting a Power Plan](#)
- [Notes on Sleep Mode](#)
- [Notes on Using the Power Source](#)
- [Charge Indicator Status List](#)
- [About Sleep Mode](#)
- [Changing the Rapid Wake \(Sleep Mode\) Settings](#)
- [Why does a message appear and Windows fail to start when I turn on my VAIO computer?](#)
- [What should I do if my VAIO computer does not turn on or the power button does not work \(the charge indicator light blinks fast\)?](#)
- [Why does my VAIO computer automatically turn off?](#)

What should I do if I cannot turn off my VAIO computer?

- What should I do if the power indicator light turns on in green when I press the power button but the screen remains blank?
- What should I do if my VAIO computer does not turn on (the power indicator light does not turn on in green)?
- What should I do if the VAIO Care (Rescue Mode) screen appears when I turn on my VAIO computer?
- What should I do if my VAIO computer does not return to Normal mode with keyboard or touch pad operations during Sleep mode?
- What should I do if Hibernate mode is not available or my VAIO computer does not enter Hibernate mode?

[↑ Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Battery

Charging the Battery Pack

The battery pack can be charged even while you are using your VAIO computer when the computer is connected to a power source. The charging time may vary depending on operating conditions.

Notes on Using the Battery Pack

Before using the battery pack, read the following precautions for correct use.

Installing the Battery Pack

Install the battery pack into the battery compartment of your VAIO computer.

Removing the Battery Pack

Remove the battery pack from the battery compartment of your VAIO computer.

[Go to Page Top](#)

You might be looking for the following topics:

- [Charge Indicator Status List](#)
- [Extending the Battery Life](#)
- [About Sleep Mode](#)
- [Changing the Rapid Wake \(Sleep Mode\) Settings](#)
- [Checking the Battery Charge Capacity](#)
- [What should I do if a message appears indicating that the battery pack is incompatible or has been incorrectly installed, after which my VAIO computer enters Hibernate mode?](#)
- [Why cannot I fully charge my battery pack?](#)
- [Why is my VAIO computer running slowly and the CPU clock frequency low while the computer is running on battery power?](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Memory module

[Notes on Adding and Removing Memory Modules](#)

Before adding or removing memory modules, read the following precautions thoroughly.

[Adding and Removing Memory Modules](#)

If you want to increase your computer's speed or improve performance when running programs simultaneously, increase the amount of memory by installing optional memory modules.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Viewing the System Information](#)

[↑ Go to Page Top](#)



[Back](#) | [Back to Top](#)

Supplied items

[Checking Supplied Items](#)

Check all items packed with the product before use.

[↑ Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Windows 8

[Controlling the Power State of Your VAIO Computer \(Sleep Mode/Shutdown\)](#)

By default, your VAIO computer automatically enters Sleep mode after a certain period of inactivity.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Restarting Your VAIO Computer](#)
- [Using Sleep Mode](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Internet

[Using the Antivirus App for Your VAIO Computer](#)

Protect your VAIO computer against computer viruses by using the antivirus app.

[Installing Apps from Windows Store](#)

You can install apps from Windows Store.

[Notes on Using the Wi-Fi\(R\) \(Wireless LAN\) Function](#)

Before using the Wi-Fi function, read the following precautions for correct use.

[Disabling the Wi-Fi\(R\) \(Wireless LAN\) Function](#)

You can disable the Wi-Fi function by following these steps.

[About the Wi-Fi\(R\) \(Wireless LAN\) Standards](#)

Wi-Fi allows your VAIO computer to connect to a network through a wireless connection.

[Stopping Wi-Fi\(R\) \(Wireless LAN\) Communications](#)

You can stop Wi-Fi communications by following these steps.

[Connecting to the Internet with a Wired Connection](#)

Before using the Internet, you need to sign up with an Internet Service Provider (ISP) and set up devices required for connecting your VAIO computer to the Internet.

[About the Internet Connection Services](#)

The following types of Internet connection services are available.

[About the Network \(LAN\)](#)

The network (LAN) enables you to connect your VAIO computer to the Internet and transfer data between the computer and other devices.

[About a Security Key for Wi-Fi\(R\) \(Wireless LAN\)](#)

A security key is a security protocol for Wi-Fi that encrypts data transmitted on Wi-Fi. It is also referred to as an encryption key or a WEP (Wired Equivalent Privacy) key.

[Starting Wi-Fi\(R\) \(Wireless LAN\) Communications](#)

You can establish Wi-Fi communications between your VAIO computer and an access point (not supplied).



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

LAN

[About the Wi-Fi\(R\) \(Wireless LAN\) Standards](#)

Wi-Fi allows your VAIO computer to connect to a network through a wireless connection.

[Connecting to the Internet with a Wired Connection](#)

Before using the Internet, you need to sign up with an Internet Service Provider (ISP) and set up devices required for connecting your VAIO computer to the Internet.

[About the Internet Connection Services](#)

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[↑ Go to Page Top](#)

You might be looking for the following topics:

- [How can I find the physical address \(MAC address\) of the built-in wireless network interface of my VAIO computer?](#)
- [What should I do if I cannot play back movies or audio tracks received via Wi-Fi\(R\) \(Wireless LAN\), or their playback is interrupted? Why is the data transfer speed slow?](#)
- [What should I do if I cannot use the Wi-Fi\(R\) \(Wireless LAN\) function?](#)
- [What should I do if I do not know the SSID or security key for the access point?](#)
- [What should I do if I cannot connect my VAIO computer to an access point \(or the Internet\)?](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Wi-Fi

[Notes on Using the Wi-Fi\(R\) \(Wireless LAN\) Function](#)

Before using the Wi-Fi function, read the following precautions for correct use.

[Disabling the Wi-Fi\(R\) \(Wireless LAN\) Function](#)

You can disable the Wi-Fi function by following these steps.

[About the Wi-Fi\(R\) \(Wireless LAN\) Standards](#)

Wi-Fi allows your VAIO computer to connect to a network through a wireless connection.

[Stopping Wi-Fi\(R\) \(Wireless LAN\) Communications](#)

You can stop Wi-Fi communications by following these steps.

[About the Internet Connection Services](#)

The following types of Internet connection services are available.

[About a Security Key for Wi-Fi\(R\) \(Wireless LAN\)](#)

A security key is a security protocol for Wi-Fi that encrypts data transmitted on Wi-Fi. It is also referred to as an encryption key or a WEP (Wired Equivalent Privacy) key.

[Starting Wi-Fi\(R\) \(Wireless LAN\) Communications](#)

You can establish Wi-Fi communications between your VAIO computer and an access point (not supplied).

[Go to Page Top](#)

You might be looking for the following topics:

- [How can I find the physical address \(MAC address\) of the built-in wireless network interface of my VAIO computer?](#)
- [What should I do if I cannot play back movies or audio tracks received via Wi-Fi\(R\) \(Wireless LAN\), or their playback is interrupted? Why is the data transfer speed slow?](#)
- [What should I do if I cannot use the Wi-Fi\(R\) \(Wireless LAN\) function?](#)
- [What should I do if I do not know the SSID or security key for the access point?](#)
- [What should I do if I cannot connect my VAIO computer to an access point \(or the Internet\)?](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Apps

[Installing Apps from Windows Store](#)

You can install apps from Windows Store.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Switching User Accounts](#)
- [Viewing Running Apps](#)
- [Searching/Starting Apps, Settings, or Files](#)
- [Closing Apps](#)
- [Opening the App Menu](#)
- [Switching Apps](#)

[↑ Go to Page Top](#)



[Back](#) | [Back to Top](#)

Store

[Installing Apps from Windows Store](#)

You can install apps from Windows Store.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Switching User Accounts](#)

[↑ Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Power

[Connecting a Power Source](#)

Connect your VAIO computer to an AC power source.

[Installing the Battery Pack](#)

Install the battery pack into the battery compartment of your VAIO computer.

[Removing the Battery Pack](#)

Remove the battery pack from the battery compartment of your VAIO computer.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Controlling the Power State of Your VAIO Computer \(Sleep Mode/Shutdown\)](#)
- [Restarting Your VAIO Computer](#)
- [Using Sleep Mode](#)
- [Entering Sleep Mode, Shutting Down, or Restarting](#)
- [Charging the Battery Pack](#)
- [Turning On Your VAIO Computer](#)
- [Selecting a Power Plan](#)
- [Notes on Sleep Mode](#)
- [Notes on Using the Power Source](#)
- [Charge Indicator Status List](#)
- [About Sleep Mode](#)
- [Changing the Rapid Wake \(Sleep Mode\) Settings](#)
- [Why does a message appear and Windows fail to start when I turn on my VAIO computer?](#)
- [What should I do if my VAIO computer does not turn on or the power button does not work \(the charge indicator light blinks fast\)?](#)
- [Why does my VAIO computer automatically turn off?](#)
- [What should I do if I cannot turn off my VAIO computer?](#)
- [What should I do if the power indicator light turns on in green when I press the power button but the screen remains blank?](#)
- [What should I do if my VAIO computer does not turn on \(the power indicator light does not turn on in green\)?](#)
- [What should I do if the VAIO Care \(Rescue Mode\) screen appears when I turn on my VAIO computer?](#)
- [What should I do if my VAIO computer does not return to Normal mode with keyboard or touch pad operations during Sleep mode?](#)
- [What should I do if Hibernate mode is not available or my VAIO computer does not enter Hibernate mode?](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Battery

[Installing the Battery Pack](#)

Install the battery pack into the battery compartment of your VAIO computer.

[Removing the Battery Pack](#)

Remove the battery pack from the battery compartment of your VAIO computer.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Charging the Battery Pack](#)
- [Notes on Using the Battery Pack](#)
- [Charge Indicator Status List](#)
- [Extending the Battery Life](#)
- [About Sleep Mode](#)
- [Changing the Rapid Wake \(Sleep Mode\) Settings](#)
- [Checking the Battery Charge Capacity](#)
- [What should I do if a message appears indicating that the battery pack is incompatible or has been incorrectly installed, after which my VAIO computer enters Hibernate mode?](#)
- [Why cannot I fully charge my battery pack?](#)
- [Why is my VAIO computer running slowly and the CPU clock frequency low while the computer is running on battery power?](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Display

[Connecting a TV with an HDMI Input Port](#)

You can connect a TV with an HDMI input port to your VAIO computer with an HDMI cable (not supplied).

[Selecting Display Modes](#)

You can switch the display output between the computer screen and an external display connected to your VAIO computer.

[Using the Multiple Monitors Function](#)

The Multiple Monitors function allows you to distribute portions of your desktop across separate displays.

[Notes on the LCD screen](#)

Read the following precautions for correct use of the LCD screen.

[Changing the Resolution \(Size\) of the Screen Image on an HDMI-Connected Device](#)

You can change the screen resolution or size of your VAIO computer's screen image displayed on an external display, such as a TV, connected to the computer with an HDMI cable (not supplied).

[Go to Page Top](#)

You might be looking for the following topics:

- [About the Start Screen and Menu](#)
- [Opening the Desktop](#)
- [Enlarging the Text Size \(DPI\) \(Touch screen equipped models\)](#)
- [Notes on Using the Touch Screen \(Touch screen equipped models\)](#)
- [Changing the Resolution \(Size\) of the Screen Image](#)
- [How to Use the Touch Screen \(Touch screen equipped models\)](#)
- [Changing the LCD Brightness](#)
- [About the Touch Screen \(Touch screen equipped models\)](#)
- [What should I do if captured images flicker?](#)
- [Why does the viewfinder show no images or poor-quality images?](#)
- [What should I do if captured images contain dropped frames and audio interruptions?](#)
- [Why do sound interruptions and/or dropped frames occur when I play high-definition videos, such as those recorded with the AVCHD digital video camcorder?](#)
- [How do I change the LCD brightness?](#)

- What should I do if no image is displayed on my external display or TV screen?
- What should I do if videos are not displayed smoothly?
- What should I do if no image is displayed on my TV screen or external display connected to the HDMI output port?
- What should I do if videos are not displayed on the computer screen?
- What should I do if my computer screen goes blank?
- What should I do if some items do not fit on the computer screen?

[↑ Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

HDMI

[Connecting a TV with an HDMI Input Port](#)

You can connect a TV with an HDMI input port to your VAIO computer with an HDMI cable (not supplied).

[Changing the Resolution \(Size\) of the Screen Image on an HDMI-Connected Device](#)

You can change the screen resolution or size of your VAIO computer's screen image displayed on an external display, such as a TV, connected to the computer with an HDMI cable (not supplied).

[Go to Page Top](#)

You might be looking for the following topics:

- [What should I do if no image is displayed on my TV screen or external display connected to the HDMI output port?](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Peripheral device

[Connecting a TV with an HDMI Input Port](#)

You can connect a TV with an HDMI input port to your VAIO computer with an HDMI cable (not supplied).

[Selecting Display Modes](#)

You can switch the display output between the computer screen and an external display connected to your VAIO computer.

[Using the Multiple Monitors Function](#)

The Multiple Monitors function allows you to distribute portions of your desktop across separate displays.

[Notes on the LCD screen](#)

Read the following precautions for correct use of the LCD screen.

[Connecting an External Microphone \(Microphone jack equipped models\)](#)

You can connect an external microphone to your VAIO computer and enjoy voice chat, etc.

[Changing the Sound Output Device](#)

If there is no sound coming from an external device connected to your VAIO computer, you need to change the device for sound output.

[Connecting a High-Quality Digital Sound Output Device between Your VAIO Computer and a TV](#)

You can connect a high-quality home theater receiver or other surround sound decoder devices between your VAIO computer and a TV using an HDMI connection.

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

CD/DVD/BD

[Connecting an External Drive](#)

Connect an external disc drive or hard disk drive to a USB port on your VAIO computer.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Booting Your VAIO Computer from External Devices](#)
- [Inserting/Removing a Disc \(Optical disc drive equipped models\)](#)
- [About Region Codes \(Optical disc drive equipped models\)](#)
- [Supported Discs \(Optical disc drive equipped models\)](#)
- [Handling Discs \(Optical disc drive equipped models\)](#)
- [Notes on Using Discs \(Optical disc drive equipped models\)](#)
- [Why does it take time to write data to DVD writable media?](#)
- [What should I do if I cannot remove the disc from the optical disc drive?](#)
- [Why can't I write data to a disc?](#)
- [What should I do if I cannot play a disc, or dropped frames and/or sound interruptions occur during playback?](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Audio

[Connecting External Speakers or Headphones](#)

You can connect external sound output devices (such as speakers or headphones) to your VAIO computer.

[Connecting an External Microphone \(Microphone jack equipped models\)](#)

You can connect an external microphone to your VAIO computer and enjoy voice chat, etc.

[Changing the Sound Output Device](#)

If there is no sound coming from an external device connected to your VAIO computer, you need to change the device for sound output.

[Connecting a High-Quality Digital Sound Output Device between Your VAIO Computer and a TV](#)

You can connect a high-quality home theater receiver or other surround sound decoder devices between your VAIO computer and a TV using an HDMI connection.

[Go to Page Top](#)

You might be looking for the following topics:

- [Adjusting the Speakers Volume](#)
- [Adjusting the Volume in Windows](#)
- [Adjusting the Microphone Volume](#)
- [Playing Optimized Sound for Your VAIO Computer Using the ClearAudio+ Mode](#)
- [What should I do if my microphone does not work?](#)
- [What should I do if I hear microphone feedback from speakers when using my microphone?](#)
- [What should I do if I do not hear sound from speakers or headphones?](#)
- [What should I do if sound interruptions occur during video or audio playback?](#)
- [What should I do if I do not hear sound from a digital audio device connected to the digital output port, such as the HDMI output port?](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Speakers

[Connecting External Speakers or Headphones](#)

You can connect external sound output devices (such as speakers or headphones) to your VAIO computer.

[Go to Page Top](#)

You might be looking for the following topics:

- [Adjusting the Speakers Volume](#)
- [Playing Optimized Sound for Your VAIO Computer Using the ClearAudio+ Mode](#)

[Go to Page Top](#)



[Back](#) | [Back to Top](#)

Headphones

[Connecting External Speakers or Headphones](#)

You can connect external sound output devices (such as speakers or headphones) to your VAIO computer.

[↑ Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Microphone

[Connecting an External Microphone \(Microphone jack equipped models\)](#)

You can connect an external microphone to your VAIO computer and enjoy voice chat, etc.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Adjusting the Microphone Volume](#)
- [What should I do if my microphone does not work?](#)
- [What should I do if I hear microphone feedback from speakers when using my microphone?](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Optical digital output

[Connecting a High-Quality Digital Sound Output Device between Your VAIO Computer and a TV](#)

You can connect a high-quality home theater receiver or other surround sound decoder devices between your VAIO computer and a TV using an HDMI connection.

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Internet

[Notes on Using the Wi-Fi\(R\) \(Wireless LAN\) Function](#)

Before using the Wi-Fi function, read the following precautions for correct use.

[Disabling the Wi-Fi\(R\) \(Wireless LAN\) Function](#)

You can disable the Wi-Fi function by following these steps.

[About the Wi-Fi\(R\) \(Wireless LAN\) Standards](#)

Wi-Fi allows your VAIO computer to connect to a network through a wireless connection.

[Stopping Wi-Fi\(R\) \(Wireless LAN\) Communications](#)

You can stop Wi-Fi communications by following these steps.

[Connecting to the Internet with a Wired Connection](#)

Before using the Internet, you need to sign up with an Internet Service Provider (ISP) and set up devices required for connecting your VAIO computer to the Internet.

[About the Internet Connection Services](#)

The following types of Internet connection services are available.

[About the Network \(LAN\)](#)

The network (LAN) enables you to connect your VAIO computer to the Internet and transfer data between the computer and other devices.

[About a Security Key for Wi-Fi\(R\) \(Wireless LAN\)](#)

A security key is a security protocol for Wi-Fi that encrypts data transmitted on Wi-Fi. It is also referred to as an encryption key or a WEP (Wired Equivalent Privacy) key.

[Starting Wi-Fi\(R\) \(Wireless LAN\) Communications](#)

You can establish Wi-Fi communications between your VAIO computer and an access point (not supplied).

[Go to Page Top](#)

You might be looking for the following topics:

- [Installing Apps from Windows Store](#)
- [Using the Antivirus App for Your VAIO Computer](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

LAN

[About the Wi-Fi\(R\) \(Wireless LAN\) Standards](#)

Wi-Fi allows your VAIO computer to connect to a network through a wireless connection.

[Connecting to the Internet with a Wired Connection](#)

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[↑ Go to Page Top](#)

You might be looking for the following topics:

- [How can I find the physical address \(MAC address\) of the built-in wireless network interface of my VAIO computer?](#)
- [What should I do if I cannot play back movies or audio tracks received via Wi-Fi\(R\) \(Wireless LAN\), or their playback is interrupted? Why is the data transfer speed slow?](#)
- [What should I do if I cannot use the Wi-Fi\(R\) \(Wireless LAN\) function?](#)
- [What should I do if I do not know the SSID or security key for the access point?](#)
- [What should I do if I cannot connect my VAIO computer to an access point \(or the Internet\)?](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Wi-Fi

[Notes on Using the Wi-Fi\(R\) \(Wireless LAN\) Function](#)

Before using the Wi-Fi function, read the following precautions for correct use.

[Disabling the Wi-Fi\(R\) \(Wireless LAN\) Function](#)

You can disable the Wi-Fi function by following these steps.

[About the Wi-Fi\(R\) \(Wireless LAN\) Standards](#)

Wi-Fi allows your VAIO computer to connect to a network through a wireless connection.

[Stopping Wi-Fi\(R\) \(Wireless LAN\) Communications](#)

You can stop Wi-Fi communications by following these steps.

[About the Internet Connection Services](#)

The following types of Internet connection services are available.

[About a Security Key for Wi-Fi\(R\) \(Wireless LAN\)](#)

A security key is a security protocol for Wi-Fi that encrypts data transmitted on Wi-Fi. It is also referred to as an encryption key or a WEP (Wired Equivalent Privacy) key.

[Starting Wi-Fi\(R\) \(Wireless LAN\) Communications](#)

You can establish Wi-Fi communications between your VAIO computer and an access point (not supplied).

[Go to Page Top](#)

You might be looking for the following topics:

- [How can I find the physical address \(MAC address\) of the built-in wireless network interface of my VAIO computer?](#)
- [What should I do if I cannot play back movies or audio tracks received via Wi-Fi\(R\) \(Wireless LAN\), or their playback is interrupted? Why is the data transfer speed slow?](#)
- [What should I do if I cannot use the Wi-Fi\(R\) \(Wireless LAN\) function?](#)
- [What should I do if I do not know the SSID or security key for the access point?](#)
- [What should I do if I cannot connect my VAIO computer to an access point \(or the Internet\)?](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

BLUETOOTH

[Notes on Using the BLUETOOTH\(R\) Function](#)

Before using the BLUETOOTH function, read the following precautions for correct use.

[About BLUETOOTH\(R\) Security](#)

The BLUETOOTH wireless technology has an authentication function, which allows you to control communication with other devices.

[Stopping BLUETOOTH\(R\) Communications](#)

You can stop BLUETOOTH communications by following these steps.

[Communicating with Another BLUETOOTH\(R\) Device such as a Mouse](#)

You can connect BLUETOOTH devices to your VAIO computer.

[About the BLUETOOTH\(R\) Function](#)

You can establish wireless communications between your VAIO computer and other BLUETOOTH devices, such as another computer, a smartphone, a mobile phone, a headset, or a mouse.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Why is my BLUETOOTH\(R\) connection slow?](#)
- [Why can't I use the BLUETOOTH\(R\) function when I sign in to my VAIO computer as a user with a standard user account?](#)
- [Why can't I use BLUETOOTH\(R\) devices when I switch users?](#)
- [What should I do if I cannot find the BLUETOOTH\(R\) device I want to communicate with?](#)
- [What should I do if the BLUETOOTH\(R\) icon is not displayed in the desktop notification area?](#)
- [What should I do if other BLUETOOTH\(R\) devices cannot connect to my VAIO computer?](#)
- [What should I do if I cannot use the BLUETOOTH\(R\) function?](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

USB

[Connecting a USB Device](#)

You can connect a Universal Serial Bus (USB) device such as a mouse, floppy disk drive, speaker or printer to your VAIO computer.

[Charging a USB Device](#)

You can charge a USB device even while your VAIO computer is off, in Hibernate mode, or Sleep mode by enabling the USB charging settings.

[Go to Page Top](#)

You might be looking for the following topics:

- [What should I do if I cannot charge the device connected to the USB port that supports USB charging?](#)
- [What should I do if I cannot print a document?](#)
- [What should I do if my VAIO computer does not recognize the USB device?](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

VAIO computer

[About the ASSIST Button](#)

Press the ASSIST button to perform regular maintenance of your VAIO computer or to solve problems you might encounter when using the computer.

[Booting Your VAIO Computer from External Devices](#)

You can boot your VAIO computer from external devices, such as an optical disc drive, a USB floppy disk drive, or a USB flash drive by using the BIOS function.

[Keeping Your VAIO Computer in Optimum Condition \(VAIO Care\)](#)

With VAIO Care, you can perform the following operations to keep your VAIO computer running at an optimum level.

[Updating Your VAIO Computer](#)

Be sure to update your VAIO computer by installing the following apps to enhance its efficiency, security and functionality.

[Using VAIO Update](#)

VAIO Update provides a service that informs you of available update information, such as important notices or update programs, to keep your VAIO computer up to date.

[Viewing the System Information](#)

You can view the system information of your VAIO computer.

[Customizing Your VAIO Computer](#)

VAIO Control Center allows you to access system information and to change settings of various kinds of functions such as display and sounds.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Parts and Controls on the Front](#)
- [Parts and Controls on the Bottom](#)
- [Parts and Controls on the Sides](#)
- [Notes on Adding and Removing Memory Modules](#)
- [Adding and Removing Memory Modules](#)
- [Setting Up an Appropriate Work Environment](#)
- [Checking Supplied Items](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Power

Selecting a Power Plan

Power management helps you set up power plans to suit your requirements for power consumption.

Using Sleep Mode

In Sleep mode, you can step away from your VAIO computer while retaining the computer's state including data you are working on.

Notes on Sleep Mode

Read the following precautions before using Sleep mode.

Notes on Using the Power Source

Read the following precautions before using the power source.

[Go to Page Top](#)

You might be looking for the following topics:

- [Controlling the Power State of Your VAIO Computer \(Sleep Mode/Shutdown\)](#)
- [Restarting Your VAIO Computer](#)
- [Entering Sleep Mode, Shutting Down, or Restarting](#)
- [Charging the Battery Pack](#)
- [Turning On Your VAIO Computer](#)
- [Connecting a Power Source](#)
- [Installing the Battery Pack](#)
- [Removing the Battery Pack](#)
- [Charge Indicator Status List](#)
- [About Sleep Mode](#)
- [Changing the Rapid Wake \(Sleep Mode\) Settings](#)
- [Why does a message appear and Windows fail to start when I turn on my VAIO computer?](#)
- [What should I do if my VAIO computer does not turn on or the power button does not work \(the charge indicator light blinks fast\)?](#)
- [Why does my VAIO computer automatically turn off?](#)
- [What should I do if I cannot turn off my VAIO computer?](#)
- [What should I do if the power indicator light turns on in green when I press the power button but the screen remains blank?](#)
- [What should I do if my VAIO computer does not turn on \(the power indicator light does not turn on in green\)?](#)
- [What should I do if the VAIO Care \(Rescue Mode\) screen appears when I turn on my VAIO computer?](#)

- What should I do if my VAIO computer does not return to Normal mode with keyboard or touch pad operations during Sleep mode?
- What should I do if Hibernate mode is not available or my VAIO computer does not enter Hibernate mode?

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Display

[Enlarging the Text Size \(DPI\) \(Touch screen equipped models\)](#)

Changing the DPI to enlarge the text and icon size enables you to operate the touch screen easier.

[Notes on Using the Touch Screen \(Touch screen equipped models\)](#)

Before using the touch screen, read the following precautions for correct use.

[Changing the Resolution \(Size\) of the Screen Image](#)

You can change the screen resolution to adjust the size of the characters and images on the computer screen.

[Connecting a TV with an HDMI Input Port](#)

You can connect a TV with an HDMI input port to your VAIO computer with an HDMI cable (not supplied).

[Selecting Display Modes](#)

You can switch the display output between the computer screen and an external display connected to your VAIO computer.

[Using the Multiple Monitors Function](#)

The Multiple Monitors function allows you to distribute portions of your desktop across separate displays.

[Notes on the LCD screen](#)

Read the following precautions for correct use of the LCD screen.

[How to Use the Touch Screen \(Touch screen equipped models\)](#)

You can tap the touch screen or make a simple motion with your fingers to operate your VAIO computer.

[Changing the Resolution \(Size\) of the Screen Image on an HDMI-Connected Device](#)

You can change the screen resolution or size of your VAIO computer's screen image displayed on an external display, such as a TV, connected to the computer with an HDMI cable (not supplied).

[Changing the LCD Brightness](#)

You can adjust the LCD brightness.

[Go to Page Top](#)

You might be looking for the following topics:

- [About the Start Screen and Menu](#)
- [Opening the Desktop](#)
- [About the Touch Screen \(Touch screen equipped models\)](#)
- [What should I do if captured images flicker?](#)
- [Why does the viewfinder show no images or poor-quality images?](#)
- [What should I do if captured images contain dropped frames and audio interruptions?](#)
- [Why do sound interruptions and/or dropped frames occur when I play high-definition videos, such as those recorded with the AVCHD digital video camcorder?](#)
- [How do I change the LCD brightness?](#)
- [What should I do if no image is displayed on my external display or TV screen?](#)
- [What should I do if videos are not displayed smoothly?](#)
- [What should I do if no image is displayed on my TV screen or external display connected to the HDMI output port?](#)
- [What should I do if videos are not displayed on the computer screen?](#)
- [What should I do if my computer screen goes blank?](#)
- [What should I do if some items do not fit on the computer screen?](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

HDMI

[Connecting a TV with an HDMI Input Port](#)

You can connect a TV with an HDMI input port to your VAIO computer with an HDMI cable (not supplied).

[Changing the Resolution \(Size\) of the Screen Image on an HDMI-Connected Device](#)

You can change the screen resolution or size of your VAIO computer's screen image displayed on an external display, such as a TV, connected to the computer with an HDMI cable (not supplied).

[Go to Page Top](#)

You might be looking for the following topics:

- [What should I do if no image is displayed on my TV screen or external display connected to the HDMI output port?](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Peripheral device

[Connecting a TV with an HDMI Input Port](#)

You can connect a TV with an HDMI input port to your VAIO computer with an HDMI cable (not supplied).

[Selecting Display Modes](#)

You can switch the display output between the computer screen and an external display connected to your VAIO computer.

[Using the Multiple Monitors Function](#)

The Multiple Monitors function allows you to distribute portions of your desktop across separate displays.

[Notes on the LCD screen](#)

Read the following precautions for correct use of the LCD screen.

[Changing the Sound Output Device](#)

If there is no sound coming from an external device connected to your VAIO computer, you need to change the device for sound output.

[Connecting a High-Quality Digital Sound Output Device between Your VAIO Computer and a TV](#)

You can connect a high-quality home theater receiver or other surround sound decoder devices between your VAIO computer and a TV using an HDMI connection.

[Go to Page Top](#)

You might be looking for the following topics:

- [Connecting an External Microphone \(Microphone jack equipped models\)](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

CD/DVD/BD

[Booting Your VAIO Computer from External Devices](#)

You can boot your VAIO computer from external devices, such as an optical disc drive, a USB floppy disk drive, or a USB flash drive by using the BIOS function.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Connecting an External Drive](#)
- [Inserting/Removing a Disc \(Optical disc drive equipped models\)](#)
- [About Region Codes \(Optical disc drive equipped models\)](#)
- [Supported Discs \(Optical disc drive equipped models\)](#)
- [Handling Discs \(Optical disc drive equipped models\)](#)
- [Notes on Using Discs \(Optical disc drive equipped models\)](#)
- [Why does it take time to write data to DVD writable media?](#)
- [What should I do if I cannot remove the disc from the optical disc drive?](#)
- [Why can't I write data to a disc?](#)
- [What should I do if I cannot play a disc, or dropped frames and/or sound interruptions occur during playback?](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Audio

[Adjusting the Speakers Volume](#)

You can change the volume level of the speakers and headphones.

[Changing the Sound Output Device](#)

If there is no sound coming from an external device connected to your VAIO computer, you need to change the device for sound output.

[Connecting a High-Quality Digital Sound Output Device between Your VAIO Computer and a TV](#)

You can connect a high-quality home theater receiver or other surround sound decoder devices between your VAIO computer and a TV using an HDMI connection.

[Adjusting the Volume in Windows](#)

You can adjust the volume on each device and app from Control Panel.

[Adjusting the Microphone Volume](#)

You can adjust the volume level of the microphone.

[Playing Optimized Sound for Your VAIO Computer Using the ClearAudio+ Mode](#)

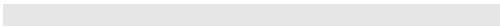
The ClearAudio+ mode enables high quality sound that is optimized for your VAIO computer using digital signal processing technologies originally developed by Sony.

[Go to Page Top](#)

You might be looking for the following topics:

- [Connecting External Speakers or Headphones](#)
- [Connecting an External Microphone \(Microphone jack equipped models\)](#)
- [What should I do if my microphone does not work?](#)
- [What should I do if I hear microphone feedback from speakers when using my microphone?](#)
- [What should I do if I do not hear sound from speakers or headphones?](#)
- [What should I do if sound interruptions occur during video or audio playback?](#)
- [What should I do if I do not hear sound from a digital audio device connected to the digital output port, such as the HDMI output port?](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Speakers

[Adjusting the Speakers Volume](#)

You can change the volume level of the speakers and headphones.

[Playing Optimized Sound for Your VAIO Computer Using the ClearAudio+ Mode](#)

The ClearAudio+ mode enables high quality sound that is optimized for your VAIO computer using digital signal processing technologies originally developed by Sony.

[Go to Page Top](#)

You might be looking for the following topics:

- [Connecting External Speakers or Headphones](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Microphone

[Adjusting the Microphone Volume](#)

You can adjust the volume level of the microphone.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Connecting an External Microphone \(Microphone jack equipped models\)](#)
- [What should I do if my microphone does not work?](#)
- [What should I do if I hear microphone feedback from speakers when using my microphone?](#)

[↑ Go to Page Top](#)

[Back](#) | [Back to Top](#)

User Guide

How to Use

[Windows 8: The Basics](#)[Parts Description](#)[Setup](#)[Network / Internet](#)[Connections](#)[Settings](#)[Playback](#)[Backup / Recovery](#)[Security](#)[Other Operations](#)[Notifications](#)

Troubleshooting

List of Topics

Optical digital output

[Connecting a High-Quality Digital Sound Output Device between Your VAIO Computer and a TV](#)

You can connect a high-quality home theater receiver or other surround sound decoder devices between your VAIO computer and a TV using an HDMI connection.

[↑ Go to Page Top](#)



[Back](#) | [Back to Top](#)

Button

[About the ASSIST Button](#)

Press the ASSIST button to perform regular maintenance of your VAIO computer or to solve problems you might encounter when using the computer.

[↑ Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Recovery

[About the ASSIST Button](#)

Press the ASSIST button to perform regular maintenance of your VAIO computer or to solve problems you might encounter when using the computer.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Removing Recovery Content to Free up Disk Space](#)
- [Recovering from Recovery Media](#)
- [Creating Recovery Media](#)
- [Checking the Volume of the Recovery Area](#)
- [Notes on Recovery](#)
- [About Recovery](#)
- [Recovering from the Recovery Area](#)
- [Refreshing Your VAIO Computer](#)
- [What should I do if my VAIO computer becomes unstable \(Windows starts\)?](#)
- [What should I do if my VAIO computer becomes unstable \(Windows does not start\)?](#)
- [What should I do if I cannot start/complete the recovery process?](#)
- [What should I do if I cannot create Recovery Media?](#)
- [How do I create Recovery Media?](#)
- [What should I do if I cannot recover my VAIO computer from the recovery area?](#)
- [How can I restore my VAIO computer system to its factory default settings?](#)
- [How can I reinstall the original apps and drivers?](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Keyboard

[Changing the Keyboard Backlight Settings \(Keyboard backlight equipped models\)](#)

You can turn on and off the keyboard backlight by changing the keyboard backlight settings.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Entering Characters with Touch Screen Operations \(Touch screen equipped models\)](#)
- [Combinations and Functions with the Fn Key](#)
- [What should I do if my keyboard configuration is wrong?](#)
- [What should I do if I cannot enter certain characters with my keyboard?](#)
- [What should I do if my VAIO computer screen freezes?](#)
- [What should I do if the pointer does not move?](#)
- [What should I do if I cannot enter numbers with the numeric keypad?](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Touch pad

[Enabling/Disabling the Gesture Function](#)

You can enable/disable the gesture function of the touch pad on your VAIO computer.

[Disabling the Tapping Function on the Touch Pad](#)

You can disable the tapping function to avoid unintentional clicks caused by a light touch on the touch pad during the keyboard operations.

[Enabling/Disabling the Touch Pad](#)

You can enable/disable the touch pad on your VAIO computer.

[Using the Touch Pad](#)

By sliding your finger on the touch pad, you can move the pointer on the computer screen.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Why can't I use the touch pad?](#)
- [How do I avoid unintentional clicks caused by a light touch on the touch pad?](#)
- [How do I disable the touch pad?](#)
- [What should I do if my VAIO computer screen freezes?](#)
- [What should I do if the pointer does not move?](#)

[↑ Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Camera

[Using the Built-in Camera \(Built-in camera equipped models\)](#)

You can make a video call through the Internet using the built-in camera and communication apps.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Notes on the Built-in Camera \(Built-in camera equipped models\)](#)
- [What should I do if captured images flicker?](#)
- [Why is the video input from the built-in camera suspended momentarily?](#)
- [Why does the viewfinder show no images or poor-quality images?](#)
- [What should I do if captured images contain dropped frames and audio interruptions?](#)
- [Why are captured images poor in quality?](#)

[↑ Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Internet

[Using the Antivirus App for Your VAIO Computer](#)

Protect your VAIO computer against computer viruses by using the antivirus app.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Installing Apps from Windows Store](#)
- [Notes on Using the Wi-Fi\(R\) \(Wireless LAN\) Function](#)
- [Disabling the Wi-Fi\(R\) \(Wireless LAN\) Function](#)
- [About the Wi-Fi\(R\) \(Wireless LAN\) Standards](#)
- [Stopping Wi-Fi\(R\) \(Wireless LAN\) Communications](#)
- [Connecting to the Internet with a Wired Connection](#)
- [About the Internet Connection Services](#)
- [About the Network \(LAN\)](#)
- [About a Security Key for Wi-Fi\(R\) \(Wireless LAN\)](#)
- [Starting Wi-Fi\(R\) \(Wireless LAN\) Communications](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Password

[Setting/Changing the Power-on Password](#)

You can set a password (power-on password) for booting up your VAIO computer, using the BIOS function. Entry of the power-on password will be prompted after the VAIO logo appears to start the computer.

[Creating/Changing/Removing Your Windows Password](#)

Setting a Windows password allows you to protect your VAIO computer from unauthorized access by requiring password entry when the computer is turned on or returns from power saving mode to Normal mode.

[Removing the Power-on Password](#)

If power-on password input for booting up your VAIO computer is no longer necessary, follow these steps to remove the machine password and user password.

[Switching from a Local Account to a Microsoft Account](#)

In Windows 8, you can switch between a local account and a Microsoft account.

[Go to Page Top](#)

You might be looking for the following topics:

- [About User Account Types](#)
- [What should I do if the Enter Onetime Password message appears and Windows does not start after I enter a wrong power-on password three times consecutively?](#)
- [What should I do if I forget the power-on password to start my VAIO computer?](#)
- [What should I do if I forget the Windows password?](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Memory module

[Viewing the System Information](#)

You can view the system information of your VAIO computer.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Notes on Adding and Removing Memory Modules](#)
- [Adding and Removing Memory Modules](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

BIOS

About the ASSIST Button

Press the ASSIST button to perform regular maintenance of your VAIO computer or to solve problems you might encounter when using the computer.

Setting/Changing the Power-on Password

You can set a password (power-on password) for booting up your VAIO computer, using the BIOS function. Entry of the power-on password will be prompted after the VAIO logo appears to start the computer.

Booting Your VAIO Computer from External Devices

You can boot your VAIO computer from external devices, such as an optical disc drive, a USB floppy disk drive, or a USB flash drive by using the BIOS function.

Removing the Power-on Password

If power-on password input for booting up your VAIO computer is no longer necessary, follow these steps to remove the machine password and user password.

[Go to Page Top](#)

You might be looking for the following topics:

- [What should I do if I forget the power-on password to start my VAIO computer?](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Service and support

[Keeping Your VAIO Computer in Optimum Condition \(VAIO Care\)](#)

With VAIO Care, you can perform the following operations to keep your VAIO computer running at an optimum level.

[Updating Your VAIO Computer](#)

Be sure to update your VAIO computer by installing the following apps to enhance its efficiency, security and functionality.

[Using VAIO Update](#)

VAIO Update provides a service that informs you of available update information, such as important notices or update programs, to keep your VAIO computer up to date.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [About Online Support Website](#)
- [Solving Common Problems with Your VAIO Computer](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Touch panel

[Enlarging the Text Size \(DPI\) \(Touch screen equipped models\)](#)

Changing the DPI to enlarge the text and icon size enables you to operate the touch screen easier.

[Notes on Using the Touch Screen \(Touch screen equipped models\)](#)

Before using the touch screen, read the following precautions for correct use.

[How to Use the Touch Screen \(Touch screen equipped models\)](#)

You can tap the touch screen or make a simple motion with your fingers to operate your VAIO computer.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [About the Touch Screen \(Touch screen equipped models\)](#)
- [Entering Characters with Touch Screen Operations \(Touch screen equipped models\)](#)

[↑ Go to Page Top](#)



[Back](#) | [Back to Top](#)

Security

[Updating Your VAIO Computer](#)

Be sure to update your VAIO computer by installing the following apps to enhance its efficiency, security and functionality.

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Menu

[Opening Control Panel](#)

You can open Control Panel by following these steps.

[Go to Page Top](#)

You might be looking for the following topics:

- [About the Start Screen and Menu](#)
- [Opening the Charms](#)
- [Opening the Desktop](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Windows 8

[Using Sleep Mode](#)

In Sleep mode, you can step away from your VAIO computer while retaining the computer's state including data you are working on.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Controlling the Power State of Your VAIO Computer \(Sleep Mode/Shutdown\)](#)
- [Restarting Your VAIO Computer](#)

[↑ Go to Page Top](#)



[Back](#) | [Back to Top](#)

User account

[Switching from a Local Account to a Microsoft Account](#)

In Windows 8, you can switch between a local account and a Microsoft account.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [About User Account Types](#)

[↑ Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

CD/DVD/BD

[Inserting/Removing a Disc \(Optical disc drive equipped models\)](#)

Insert/remove a disc to/from your VAIO computer that is turned on.

[About Region Codes \(Optical disc drive equipped models\)](#)

The following is a list of DVD region codes indicating playable regions of DVD media.

[Supported Discs \(Optical disc drive equipped models\)](#)

This topic explains media types that are playable/recordable on your VAIO computer.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Connecting an External Drive](#)
- [Booting Your VAIO Computer from External Devices](#)
- [Handling Discs \(Optical disc drive equipped models\)](#)
- [Notes on Using Discs \(Optical disc drive equipped models\)](#)
- [Why does it take time to write data to DVD writable media?](#)
- [What should I do if I cannot remove the disc from the optical disc drive?](#)
- [Why can't I write data to a disc?](#)
- [What should I do if I cannot play a disc, or dropped frames and/or sound interruptions occur during playback?](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

VAIO computer

[About the ASSIST Button](#)

Press the ASSIST button to perform regular maintenance of your VAIO computer or to solve problems you might encounter when using the computer.

[Booting Your VAIO Computer from External Devices](#)

You can boot your VAIO computer from external devices, such as an optical disc drive, a USB floppy disk drive, or a USB flash drive by using the BIOS function.

[Keeping Your VAIO Computer in Optimum Condition \(VAIO Care\)](#)

With VAIO Care, you can perform the following operations to keep your VAIO computer running at an optimum level.

[Go to Page Top](#)

You might be looking for the following topics:

- [Parts and Controls on the Front](#)
- [Parts and Controls on the Bottom](#)
- [Parts and Controls on the Sides](#)
- [Notes on Adding and Removing Memory Modules](#)
- [Adding and Removing Memory Modules](#)
- [Setting Up an Appropriate Work Environment](#)
- [Checking Supplied Items](#)
- [Updating Your VAIO Computer](#)
- [Using VAIO Update](#)
- [Viewing the System Information](#)
- [Customizing Your VAIO Computer](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

CD/DVD/BD

[Booting Your VAIO Computer from External Devices](#)

You can boot your VAIO computer from external devices, such as an optical disc drive, a USB floppy disk drive, or a USB flash drive by using the BIOS function.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Connecting an External Drive](#)
- [Inserting/Removing a Disc \(Optical disc drive equipped models\)](#)
- [About Region Codes \(Optical disc drive equipped models\)](#)
- [Supported Discs \(Optical disc drive equipped models\)](#)
- [Handling Discs \(Optical disc drive equipped models\)](#)
- [Notes on Using Discs \(Optical disc drive equipped models\)](#)
- [Why does it take time to write data to DVD writable media?](#)
- [What should I do if I cannot remove the disc from the optical disc drive?](#)
- [Why can't I write data to a disc?](#)
- [What should I do if I cannot play a disc, or dropped frames and/or sound interruptions occur during playback?](#)

[↑ Go to Page Top](#)



[Back](#) | [Back to Top](#)

Button

[About the ASSIST Button](#)

Press the ASSIST button to perform regular maintenance of your VAIO computer or to solve problems you might encounter when using the computer.

[↑ Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Recovery

[About the ASSIST Button](#)

Press the ASSIST button to perform regular maintenance of your VAIO computer or to solve problems you might encounter when using the computer.

[Removing Recovery Content to Free up Disk Space](#)

Your built-in storage device contains the recovery area where the data for system recovery is stored. If your VAIO computer includes a solid state drive (SSD), you might want to minimize the recovery area by removing such data to free up disk space on the C: drive (or the last drive in your drive list, for example D: drive).

[Recovering from Recovery Media](#)

If the recovery area data has been corrupted or erased, you can use Recovery Media to recover your VAIO computer.

[Creating Recovery Media](#)

Follow the instructions below to create Recovery Media.

[Checking the Volume of the Recovery Area](#)

Your built-in storage device contains the recovery area where the data for the system recovery is stored.

[Notes on Recovery](#)

Read the following notes thoroughly before recovering your VAIO computer.

[About Recovery](#)

Recovery is the process of restoring the built-in storage device back to its original factory condition. Refresh is the process of reinstalling the operating system with the main settings and personal data retained.

[Recovering from the Recovery Area](#)

You can recover your VAIO computer from the recovery area on the built-in storage device. This recovery method is faster than using Recovery Media.

[Refreshing Your VAIO Computer](#)

If your VAIO computer has become unstable, it is recommended that you use the refresh function provided by Windows. Refresh the computer by following these steps.

[Go to Page Top](#)

You might be looking for the following topics:

- What should I do if my VAIO computer becomes unstable (Windows starts)?
- What should I do if my VAIO computer becomes unstable (Windows does not start)?
- What should I do if I cannot start/complete the recovery process?
- What should I do if I cannot create Recovery Media?
- How do I create Recovery Media?
- What should I do if I cannot recover my VAIO computer from the recovery area?
- How can I restore my VAIO computer system to its factory default settings?
- How can I reinstall the original apps and drivers?

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

BIOS

[About the ASSIST Button](#)

Press the ASSIST button to perform regular maintenance of your VAIO computer or to solve problems you might encounter when using the computer.

[Booting Your VAIO Computer from External Devices](#)

You can boot your VAIO computer from external devices, such as an optical disc drive, a USB floppy disk drive, or a USB flash drive by using the BIOS function.

[Go to Page Top](#)

You might be looking for the following topics:

- [Setting/Changing the Power-on Password](#)
- [Removing the Power-on Password](#)
- [What should I do if I forget the power-on password to start my VAIO computer?](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Backup

[About Types of Backup](#)

You can use the Windows Backup and Restore feature to back up your valuable data.

[About Backup](#)

The backup process creates a backup copy of your data stored on the built-in storage device and saves it to another location.

[Creating a Restore Point](#)

A restore point enables you to restore your computer system files to a previous state, depending on when the restore point was created.

[Restoring System Files Using the Restore Point when You cannot Start Windows](#)

When you cannot start Windows, follow these steps to restore computer system files.

[Backing Up Your Data when You cannot Start Windows](#)

If you cannot start Windows, back up your data with VAIO Care (Rescue Mode): VAIO recovery solutions.

[Restoring Your Data with VAIO Data Restore Tool](#)

You can use VAIO Data Restore Tool to restore files previously backed up using VAIO Care (Rescue Mode): VAIO recovery solutions.

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Service and support

[Keeping Your VAIO Computer in Optimum Condition \(VAIO Care\)](#)

With VAIO Care, you can perform the following operations to keep your VAIO computer running at an optimum level.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Updating Your VAIO Computer](#)
- [Using VAIO Update](#)
- [About Online Support Website](#)
- [Solving Common Problems with Your VAIO Computer](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

Built-in storage device

[Removing Recovery Content to Free up Disk Space](#)

Your built-in storage device contains the recovery area where the data for system recovery is stored. If your VAIO computer includes a solid state drive (SSD), you might want to minimize the recovery area by removing such data to free up disk space on the C: drive (or the last drive in your drive list, for example D: drive).

[Creating Partitions](#)

This topic describes how to create partitions.

[Creating Other Drives \(Modifying Partitions\)](#)

Partitions are divided areas on your built-in storage device. Dividing the built-in storage device into more than one partition may have various advantages, such as separating the system files from your data files.

[Checking the Volume of the Recovery Area](#)

Your built-in storage device contains the recovery area where the data for the system recovery is stored.

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Partition

[Creating Partitions](#)

This topic describes how to create partitions.

[Creating Other Drives \(Modifying Partitions\)](#)

Partitions are divided areas on your built-in storage device. Dividing the built-in storage device into more than one partition may have various advantages, such as separating the system files from your data files.

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Refresh

[About Recovery](#)

Recovery is the process of restoring the built-in storage device back to its original factory condition. Refresh is the process of reinstalling the operating system with the main settings and personal data retained.

[Refreshing Your VAIO Computer](#)

If your VAIO computer has become unstable, it is recommended that you use the refresh function provided by Windows. Refresh the computer by following these steps.

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

VAIO computer

[Keeping Your VAIO Computer in Optimum Condition \(VAIO Care\)](#)

With VAIO Care, you can perform the following operations to keep your VAIO computer running at an optimum level.

[Using VAIO Update](#)

VAIO Update provides a service that informs you of available update information, such as important notices or update programs, to keep your VAIO computer up to date.

[Go to Page Top](#)

You might be looking for the following topics:

- [Parts and Controls on the Front](#)
- [Parts and Controls on the Bottom](#)
- [Parts and Controls on the Sides](#)
- [Notes on Adding and Removing Memory Modules](#)
- [Adding and Removing Memory Modules](#)
- [Setting Up an Appropriate Work Environment](#)
- [Checking Supplied Items](#)
- [About the ASSIST Button](#)
- [Booting Your VAIO Computer from External Devices](#)
- [Updating Your VAIO Computer](#)
- [Viewing the System Information](#)
- [Customizing Your VAIO Computer](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Internet

[Using the Antivirus App for Your VAIO Computer](#)

Protect your VAIO computer against computer viruses by using the antivirus app.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Installing Apps from Windows Store](#)
- [Notes on Using the Wi-Fi\(R\) \(Wireless LAN\) Function](#)
- [Disabling the Wi-Fi\(R\) \(Wireless LAN\) Function](#)
- [About the Wi-Fi\(R\) \(Wireless LAN\) Standards](#)
- [Stopping Wi-Fi\(R\) \(Wireless LAN\) Communications](#)
- [Connecting to the Internet with a Wired Connection](#)
- [About the Internet Connection Services](#)
- [About the Network \(LAN\)](#)
- [About a Security Key for Wi-Fi\(R\) \(Wireless LAN\)](#)
- [Starting Wi-Fi\(R\) \(Wireless LAN\) Communications](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Password

[Setting/Changing the Power-on Password](#)

You can set a password (power-on password) for booting up your VAIO computer, using the BIOS function. Entry of the power-on password will be prompted after the VAIO logo appears to start the computer.

[Creating/Changing/Removing Your Windows Password](#)

Setting a Windows password allows you to protect your VAIO computer from unauthorized access by requiring password entry when the computer is turned on or returns from power saving mode to Normal mode.

[Removing the Power-on Password](#)

If power-on password input for booting up your VAIO computer is no longer necessary, follow these steps to remove the machine password and user password.

[Go to Page Top](#)

You might be looking for the following topics:

- [About User Account Types](#)
- [Switching from a Local Account to a Microsoft Account](#)
- [What should I do if the Enter Onetime Password message appears and Windows does not start after I enter a wrong power-on password three times consecutively?](#)
- [What should I do if I forget the power-on password to start my VAIO computer?](#)
- [What should I do if I forget the Windows password?](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

BIOS

[Setting/Changing the Power-on Password](#)

You can set a password (power-on password) for booting up your VAIO computer, using the BIOS function. Entry of the power-on password will be prompted after the VAIO logo appears to start the computer.

[Removing the Power-on Password](#)

If power-on password input for booting up your VAIO computer is no longer necessary, follow these steps to remove the machine password and user password.

[Go to Page Top](#)

You might be looking for the following topics:

- [About the ASSIST Button](#)
- [Booting Your VAIO Computer from External Devices](#)
- [What should I do if I forget the power-on password to start my VAIO computer?](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Service and support

[Keeping Your VAIO Computer in Optimum Condition \(VAIO Care\)](#)

With VAIO Care, you can perform the following operations to keep your VAIO computer running at an optimum level.

[Using VAIO Update](#)

VAIO Update provides a service that informs you of available update information, such as important notices or update programs, to keep your VAIO computer up to date.

[Go to Page Top](#)

You might be looking for the following topics:

- [Updating Your VAIO Computer](#)
- [About Online Support Website](#)
- [Solving Common Problems with Your VAIO Computer](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

VAIO computer

[Notes on Adding and Removing Memory Modules](#)

Before adding or removing memory modules, read the following precautions thoroughly.

[Adding and Removing Memory Modules](#)

If you want to increase your computer's speed or improve performance when running programs simultaneously, increase the amount of memory by installing optional memory modules.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Parts and Controls on the Front](#)
- [Parts and Controls on the Bottom](#)
- [Parts and Controls on the Sides](#)
- [Setting Up an Appropriate Work Environment](#)
- [Checking Supplied Items](#)
- [About the ASSIST Button](#)
- [Booting Your VAIO Computer from External Devices](#)
- [Keeping Your VAIO Computer in Optimum Condition \(VAIO Care\)](#)
- [Updating Your VAIO Computer](#)
- [Using VAIO Update](#)
- [Viewing the System Information](#)
- [Customizing Your VAIO Computer](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Power

[Controlling the Power State of Your VAIO Computer \(Sleep Mode/Shutdown\)](#)

By default, your VAIO computer automatically enters Sleep mode after a certain period of inactivity.

[Restarting Your VAIO Computer](#)

After changing the settings or installing an app on your VAIO computer, you may be required to restart the computer.

[Charge Indicator Status List](#)

The charge indicator light turns on or blinks differently according to conditions.

[Using Sleep Mode](#)

In Sleep mode, you can step away from your VAIO computer while retaining the computer's state including data you are working on.

[Charging the Battery Pack](#)

The battery pack can be charged even while you are using your VAIO computer when the computer is connected to a power source. The charging time may vary depending on operating conditions.

[Turning On Your VAIO Computer](#)

Turn on your VAIO computer to start Windows.

[About Sleep Mode](#)

Sleep mode enables you to take a break and retain the computer's state, including data you are working on.

[Changing the Rapid Wake \(Sleep Mode\) Settings](#)

You can change the Rapid Wake settings in VAIO Control Center.

[Go to Page Top](#)

You might be looking for the following topics:

- [Entering Sleep Mode, Shutting Down, or Restarting](#)
- [Connecting a Power Source](#)
- [Installing the Battery Pack](#)
- [Removing the Battery Pack](#)
- [Selecting a Power Plan](#)
- [Notes on Sleep Mode](#)

- Notes on Using the Power Source
- Why does a message appear and Windows fail to start when I turn on my VAIO computer?
- What should I do if my VAIO computer does not turn on or the power button does not work (the charge indicator light blinks fast)?
- Why does my VAIO computer automatically turn off?
- What should I do if I cannot turn off my VAIO computer?
- What should I do if the power indicator light turns on in green when I press the power button but the screen remains blank?
- What should I do if my VAIO computer does not turn on (the power indicator light does not turn on in green)?
- What should I do if the VAIO Care (Rescue Mode) screen appears when I turn on my VAIO computer?
- What should I do if my VAIO computer does not return to Normal mode with keyboard or touch pad operations during Sleep mode?
- What should I do if Hibernate mode is not available or my VAIO computer does not enter Hibernate mode?

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Battery

[Charge Indicator Status List](#)

The charge indicator light turns on or blinks differently according to conditions.

[Charging the Battery Pack](#)

The battery pack can be charged even while you are using your VAIO computer when the computer is connected to a power source. The charging time may vary depending on operating conditions.

[Extending the Battery Life](#)

When your VAIO computer is running on battery power, you can extend the battery life using the following methods.

[About Sleep Mode](#)

Sleep mode enables you to take a break and retain the computer's state, including data you are working on.

[Changing the Rapid Wake \(Sleep Mode\) Settings](#)

You can change the Rapid Wake settings in VAIO Control Center.

[Checking the Battery Charge Capacity](#)

The battery pack is consumable. The capacity gradually declines through repeated cycles of recharging and discharging. As a result, the battery life becomes short even if it is fully charged and eventually the battery pack reaches the end of its life.

[Go to Page Top](#)

You might be looking for the following topics:

- [Notes on Using the Battery Pack](#)
- [Installing the Battery Pack](#)
- [Removing the Battery Pack](#)
- [What should I do if a message appears indicating that the battery pack is incompatible or has been incorrectly installed, after which my VAIO computer enters Hibernate mode?](#)
- [Why cannot I fully charge my battery pack?](#)
- [Why is my VAIO computer running slowly and the CPU clock frequency low while the computer is running on battery power?](#)

[Go to Page Top](#)





User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Display

[Notes on Using the Touch Screen \(Touch screen equipped models\)](#)

Before using the touch screen, read the following precautions for correct use.

[How to Use the Touch Screen \(Touch screen equipped models\)](#)

You can tap the touch screen or make a simple motion with your fingers to operate your VAIO computer.

[About the Touch Screen \(Touch screen equipped models\)](#)

The touch screen enables direct interaction with your VAIO computer using your finger(s). You can perform various gestures on the touch screen.

[Go to Page Top](#)

You might be looking for the following topics:

- [About the Start Screen and Menu](#)
- [Opening the Desktop](#)
- [Connecting a TV with an HDMI Input Port](#)
- [Selecting Display Modes](#)
- [Using the Multiple Monitors Function](#)
- [Notes on the LCD screen](#)
- [Changing the Resolution \(Size\) of the Screen Image on an HDMI-Connected Device](#)
- [Enlarging the Text Size \(DPI\) \(Touch screen equipped models\)](#)
- [Changing the Resolution \(Size\) of the Screen Image](#)
- [Changing the LCD Brightness](#)
- [What should I do if captured images flicker?](#)
- [Why does the viewfinder show no images or poor-quality images?](#)
- [What should I do if captured images contain dropped frames and audio interruptions?](#)
- [Why do sound interruptions and/or dropped frames occur when I play high-definition videos, such as those recorded with the AVCHD digital video camcorder?](#)
- [How do I change the LCD brightness?](#)
- [What should I do if no image is displayed on my external display or TV screen?](#)
- [What should I do if videos are not displayed smoothly?](#)
- [What should I do if no image is displayed on my TV screen or external display connected to the HDMI output port?](#)
- [What should I do if videos are not displayed on the computer screen?](#)
- [What should I do if my computer screen goes blank?](#)

- [What should I do if some items do not fit on the computer screen?](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

CD/DVD/BD

[Inserting/Removing a Disc \(Optical disc drive equipped models\)](#)

Insert/remove a disc to/from your VAIO computer that is turned on.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Connecting an External Drive](#)
- [Booting Your VAIO Computer from External Devices](#)
- [About Region Codes \(Optical disc drive equipped models\)](#)
- [Supported Discs \(Optical disc drive equipped models\)](#)
- [Handling Discs \(Optical disc drive equipped models\)](#)
- [Notes on Using Discs \(Optical disc drive equipped models\)](#)
- [Why does it take time to write data to DVD writable media?](#)
- [What should I do if I cannot remove the disc from the optical disc drive?](#)
- [Why can't I write data to a disc?](#)
- [What should I do if I cannot play a disc, or dropped frames and/or sound interruptions occur during playback?](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Keyboard

[Entering Characters with Touch Screen Operations \(Touch screen equipped models\)](#)

You can operate the on-screen Touch Keyboard with touch screen operations for text entry.

[Combinations and Functions with the Fn Key](#)

Press and hold down the Fn key and another key simultaneously to perform a keyboard shortcut action.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Changing the Keyboard Backlight Settings \(Keyboard backlight equipped models\)](#)
- [What should I do if my keyboard configuration is wrong?](#)
- [What should I do if I cannot enter certain characters with my keyboard?](#)
- [What should I do if my VAIO computer screen freezes?](#)
- [What should I do if the pointer does not move?](#)
- [What should I do if I cannot enter numbers with the numeric keypad?](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Touch pad

[Using the Touch Pad](#)

By sliding your finger on the touch pad, you can move the pointer on the computer screen.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Enabling/Disabling the Gesture Function](#)
- [Disabling the Tapping Function on the Touch Pad](#)
- [Enabling/Disabling the Touch Pad](#)
- [Why can't I use the touch pad?](#)
- [How do I avoid unintentional clicks caused by a light touch on the touch pad?](#)
- [How do I disable the touch pad?](#)
- [What should I do if my VAIO computer screen freezes?](#)
- [What should I do if the pointer does not move?](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Camera

[Notes on the Built-in Camera \(Built-in camera equipped models\)](#)

[Using the Built-in Camera \(Built-in camera equipped models\)](#)

You can make a video call through the Internet using the built-in camera and communication apps.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [What should I do if captured images flicker?](#)
- [Why is the video input from the built-in camera suspended momentarily?](#)
- [Why does the viewfinder show no images or poor-quality images?](#)
- [What should I do if captured images contain dropped frames and audio interruptions?](#)
- [Why are captured images poor in quality?](#)

[↑ Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Memory module

[Notes on Adding and Removing Memory Modules](#)

Before adding or removing memory modules, read the following precautions thoroughly.

[Adding and Removing Memory Modules](#)

If you want to increase your computer's speed or improve performance when running programs simultaneously, increase the amount of memory by installing optional memory modules.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Viewing the System Information](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

USB

[Connecting a USB Device](#)

You can connect a Universal Serial Bus (USB) device such as a mouse, floppy disk drive, speaker or printer to your VAIO computer.

[Charging a USB Device](#)

You can charge a USB device even while your VAIO computer is off, in Hibernate mode, or Sleep mode by enabling the USB charging settings.

[Go to Page Top](#)

You might be looking for the following topics:

- [What should I do if I cannot charge the device connected to the USB port that supports USB charging?](#)
- [What should I do if I cannot print a document?](#)
- [What should I do if my VAIO computer does not recognize the USB device?](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Memory card

[Inserting SD Memory Cards](#)

Your VAIO computer is equipped with an SD memory card slot. You can use this slot to transfer data among digital cameras, camcorders, music players, and other audio/video devices.

[Notes on Using SD Memory Cards](#)

Before using SD memory cards, read the following precautions for correct use.

[Removing SD Memory Cards](#)

This topic explains how to remove an SD memory card.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Why can't I write data to a memory card?](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Built-in storage device

[Creating Partitions](#)

This topic describes how to create partitions.

[Creating Other Drives \(Modifying Partitions\)](#)

Partitions are divided areas on your built-in storage device. Dividing the built-in storage device into more than one partition may have various advantages, such as separating the system files from your data files.

[Go to Page Top](#)

You might be looking for the following topics:

- [Removing Recovery Content to Free up Disk Space](#)
- [Checking the Volume of the Recovery Area](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Touch panel

[Notes on Using the Touch Screen \(Touch screen equipped models\)](#)

Before using the touch screen, read the following precautions for correct use.

[How to Use the Touch Screen \(Touch screen equipped models\)](#)

You can tap the touch screen or make a simple motion with your fingers to operate your VAIO computer.

[About the Touch Screen \(Touch screen equipped models\)](#)

The touch screen enables direct interaction with your VAIO computer using your finger(s). You can perform various gestures on the touch screen.

[Entering Characters with Touch Screen Operations \(Touch screen equipped models\)](#)

You can operate the on-screen Touch Keyboard with touch screen operations for text entry.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Enlarging the Text Size \(DPI\) \(Touch screen equipped models\)](#)

[↑ Go to Page Top](#)

[Back](#) | [Back to Top](#)

User Guide

How to Use

[Windows 8: The Basics](#)[Parts Description](#)[Setup](#)[Network / Internet](#)[Connections](#)[Settings](#)[Playback](#)[Backup / Recovery](#)[Security](#)[Other Operations](#)[Notifications](#)

Troubleshooting

List of Topics

Partition

[Creating Partitions](#)

This topic describes how to create partitions.

[Creating Other Drives \(Modifying Partitions\)](#)

Partitions are divided areas on your built-in storage device. Dividing the built-in storage device into more than one partition may have various advantages, such as separating the system files from your data files.

[↑ Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

NFC/One-touch functions

[Notes on NFC/One-touch functions \(NFC supported models\)](#)

Before using the NFC/One-touch functions, read the following precautions for correct use.

[Disabling NFC/One-touch functions \(NFC supported models\)](#)

You can disable NFC/One-touch functions by following these steps.

[About One-touch functions \(NFC supported models\)](#)

One-touch functions are Sony original functions which use NFC.

[About NFC \(NFC supported models\)](#)

Near Field Communication (NFC) is a short-range wireless technology.

[Using NFC/One-touch functions \(NFC supported models\)](#)

Easily connect an NFC/One-touch functions supported device to your VAIO computer by simply touching the computer with the device.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [What should I do if I cannot use NFC/One-touch functions?](#)

[↑ Go to Page Top](#)



[Back](#) | [Back to Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

Windows

[Opening Windows Help and Support](#)

You can open Windows Help and Support by following these steps.

[↑ Go to Page Top](#)

[Back](#) | [Back to Top](#)

User Guide

How to Use

[Windows 8: The Basics](#)[Parts Description](#)[Setup](#)[Network / Internet](#)[Connections](#)[Settings](#)[Playback](#)[Backup / Recovery](#)[Security](#)[Other Operations](#)[Notifications](#)

Troubleshooting

List of Topics

Windows 8

[Controlling the Power State of Your VAIO Computer \(Sleep Mode/Shutdown\)](#)

By default, your VAIO computer automatically enters Sleep mode after a certain period of inactivity.

[Restarting Your VAIO Computer](#)

After changing the settings or installing an app on your VAIO computer, you may be required to restart the computer.

[Using Sleep Mode](#)

In Sleep mode, you can step away from your VAIO computer while retaining the computer's state including data you are working on.

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Help and Support

[Opening Windows Help and Support](#)

You can open Windows Help and Support by following these steps.

[↑ Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Read this first

[Read This First](#)

Congratulations on your purchase of this VAIO(R) computer.

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

VAIO computer

[Setting Up an Appropriate Work Environment](#)

This topic describes where to or not to place your VAIO computer and ergonomic instructions.

[Checking Supplied Items](#)

Check all items packed with the product before use.

[Updating Your VAIO Computer](#)

Be sure to update your VAIO computer by installing the following apps to enhance its efficiency, security and functionality.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Parts and Controls on the Front](#)
- [Parts and Controls on the Bottom](#)
- [Parts and Controls on the Sides](#)
- [Notes on Adding and Removing Memory Modules](#)
- [Adding and Removing Memory Modules](#)
- [About the ASSIST Button](#)
- [Booting Your VAIO Computer from External Devices](#)
- [Keeping Your VAIO Computer in Optimum Condition \(VAIO Care\)](#)
- [Using VAIO Update](#)
- [Viewing the System Information](#)
- [Customizing Your VAIO Computer](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

CD/DVD/BD

[About Region Codes \(Optical disc drive equipped models\)](#)

The following is a list of DVD region codes indicating playable regions of DVD media.

[Handling Discs \(Optical disc drive equipped models\)](#)

Read the following to protect data stored on discs and take proper care of discs.

[Supported Discs \(Optical disc drive equipped models\)](#)

This topic explains media types that are playable/recordable on your VAIO computer.

[Notes on Using Discs \(Optical disc drive equipped models\)](#)

Observe the following notes when using discs on your VAIO computer.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Connecting an External Drive](#)
- [Booting Your VAIO Computer from External Devices](#)
- [Inserting/Removing a Disc \(Optical disc drive equipped models\)](#)
- [Why does it take time to write data to DVD writable media?](#)
- [What should I do if I cannot remove the disc from the optical disc drive?](#)
- [Why can't I write data to a disc?](#)
- [What should I do if I cannot play a disc, or dropped frames and/or sound interruptions occur during playback?](#)

[↑ Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Care and maintenance

[Cleaning Your VAIO computer/LCD screen](#)

Before cleaning your VAIO computer, read the following precautions for the correct cleaning procedure.

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

Important notice

[Safety Information](#)

Refer to the supplied safety manual for detailed safety information.

[Handling the Built-in Storage Device](#)

The built-in storage device (hard disk drive or solid state drive) has a high storage density and reads or writes data in a short time. However, it can be easily damaged if improperly used.

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[Trademarks](#)

[About the International ENERGY STAR\(R\) Program](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

Service and support

[About Online Support Website](#)

The online support website provides information concerning your VAIO computer, as well as a selection of frequently asked questions.

[Updating Your VAIO Computer](#)

Be sure to update your VAIO computer by installing the following apps to enhance its efficiency, security and functionality.

[Solving Common Problems with Your VAIO Computer](#)

If you have any problem operating your VAIO computer, try these suggestions before contacting an authorized Sony service/support center or your local Sony dealer directly.

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Keeping Your VAIO Computer in Optimum Condition \(VAIO Care\)](#)
- [Using VAIO Update](#)

[↑ Go to Page Top](#)



[Back](#) | [Back to Top](#)

Product registration

[About Online Support Website](#)

The online support website provides information concerning your VAIO computer, as well as a selection of frequently asked questions.

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics



[Back](#) | [Back to Top](#)

Supplied items

[Checking Supplied Items](#)

Check all items packed with the product before use.

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics



[Back](#) | [Back to Top](#)

Security

[Updating Your VAIO Computer](#)

Be sure to update your VAIO computer by installing the following apps to enhance its efficiency, security and functionality.

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

Power

[Why does a message appear and Windows fail to start when I turn on my VAIO computer?](#)

[What should I do if my VAIO computer does not turn on or the power button does not work \(the charge indicator light blinks fast\)?](#)

[Why does my VAIO computer automatically turn off?](#)

[What should I do if I cannot turn off my VAIO computer?](#)

[What should I do if the power indicator light turns on in green when I press the power button but the screen remains blank?](#)

[What should I do if my VAIO computer does not turn on \(the power indicator light does not turn on in green\)?](#)

[What should I do if the VAIO Care \(Rescue Mode\) screen appears when I turn on my VAIO computer?](#)

[What should I do if my VAIO computer does not return to Normal mode with keyboard or touch pad operations during Sleep mode?](#)

[What should I do if Hibernate mode is not available or my VAIO computer does not enter Hibernate mode?](#)

[Go to Page Top](#)

You might be looking for the following topics:

- [Controlling the Power State of Your VAIO Computer \(Sleep Mode/Shutdown\)](#)
- [Restarting Your VAIO Computer](#)
- [Using Sleep Mode](#)
- [Entering Sleep Mode, Shutting Down, or Restarting](#)
- [Charging the Battery Pack](#)
- [Turning On Your VAIO Computer](#)
- [Connecting a Power Source](#)
- [Installing the Battery Pack](#)
- [Removing the Battery Pack](#)
- [Selecting a Power Plan](#)
- [Notes on Sleep Mode](#)

- [Notes on Using the Power Source](#)
- [Charge Indicator Status List](#)
- [About Sleep Mode](#)
- [Changing the Rapid Wake \(Sleep Mode\) Settings](#)

[↑ Go to Page Top](#)

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User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

Battery

[What should I do if a message appears indicating that the battery pack is incompatible or has been incorrectly installed, after which my VAIO computer enters Hibernate mode?](#)

[Why cannot I fully charge my battery pack?](#)

[Why is my VAIO computer running slowly and the CPU clock frequency low while the computer is running on battery power?](#)

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Charging the Battery Pack](#)
- [Notes on Using the Battery Pack](#)
- [Installing the Battery Pack](#)
- [Removing the Battery Pack](#)
- [Charge Indicator Status List](#)
- [Extending the Battery Life](#)
- [About Sleep Mode](#)
- [Changing the Rapid Wake \(Sleep Mode\) Settings](#)
- [Checking the Battery Charge Capacity](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

Display

[What should I do if captured images flicker?](#)

[Why does the viewfinder show no images or poor-quality images?](#)

[What should I do if captured images contain dropped frames and audio interruptions?](#)

[Why do sound interruptions and/or dropped frames occur when I play high-definition videos, such as those recorded with the AVCHD digital video camcorder?](#)

[How do I change the LCD brightness?](#)

[What should I do if no image is displayed on my external display or TV screen?](#)

[What should I do if videos are not displayed smoothly?](#)

[What should I do if no image is displayed on my TV screen or external display connected to the HDMI output port?](#)

[What should I do if videos are not displayed on the computer screen?](#)

[What should I do if my computer screen goes blank?](#)

[What should I do if some items do not fit on the computer screen?](#)

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [About the Start Screen and Menu](#)
- [Opening the Desktop](#)
- [Connecting a TV with an HDMI Input Port](#)
- [Selecting Display Modes](#)
- [Using the Multiple Monitors Function](#)
- [Notes on the LCD screen](#)
- [Changing the Resolution \(Size\) of the Screen Image on an HDMI-Connected Device](#)
- [Enlarging the Text Size \(DPI\) \(Touch screen equipped models\)](#)

- [Notes on Using the Touch Screen \(Touch screen equipped models\)](#)
- [Changing the Resolution \(Size\) of the Screen Image](#)
- [How to Use the Touch Screen \(Touch screen equipped models\)](#)
- [Changing the LCD Brightness](#)
- [About the Touch Screen \(Touch screen equipped models\)](#)

[↑ Go to Page Top](#)

User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

HDMI

[What should I do if no image is displayed on my TV screen or external display connected to the HDMI output port?](#)

[Go to Page Top](#)

You might be looking for the following topics:

- [Connecting a TV with an HDMI Input Port](#)
- [Changing the Resolution \(Size\) of the Screen Image on an HDMI-Connected Device](#)

[Go to Page Top](#)



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

CD/DVD/BD

[Why does it take time to write data to DVD writable media?](#)

[What should I do if I cannot remove the disc from the optical disc drive?](#)

[Why can't I write data to a disc?](#)

[What should I do if I cannot play a disc, or dropped frames and/or sound interruptions occur during playback?](#)

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Connecting an External Drive](#)
- [Booting Your VAIO Computer from External Devices](#)
- [Inserting/Removing a Disc \(Optical disc drive equipped models\)](#)
- [About Region Codes \(Optical disc drive equipped models\)](#)
- [Supported Discs \(Optical disc drive equipped models\)](#)
- [Handling Discs \(Optical disc drive equipped models\)](#)
- [Notes on Using Discs \(Optical disc drive equipped models\)](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

Audio

[What should I do if my microphone does not work?](#)

[What should I do if I hear microphone feedback from speakers when using my microphone?](#)

[What should I do if I do not hear sound from speakers or headphones?](#)

[What should I do if sound interruptions occur during video or audio playback?](#)

[What should I do if I do not hear sound from a digital audio device connected to the digital output port, such as the HDMI output port?](#)

[Go to Page Top](#)

You might be looking for the following topics:

- [Connecting External Speakers or Headphones](#)
- [Connecting an External Microphone \(Microphone jack equipped models\)](#)
- [Changing the Sound Output Device](#)
- [Connecting a High-Quality Digital Sound Output Device between Your VAIO Computer and a TV](#)
- [Adjusting the Speakers Volume](#)
- [Adjusting the Volume in Windows](#)
- [Adjusting the Microphone Volume](#)
- [Playing Optimized Sound for Your VAIO Computer Using the ClearAudio+ Mode](#)

[Go to Page Top](#)

User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

Microphone

[What should I do if my microphone does not work?](#)

[What should I do if I hear microphone feedback from speakers when using my microphone?](#)


[Go to Page Top](#)

You might be looking for the following topics:

- [Connecting an External Microphone \(Microphone jack equipped models\)](#)
- [Adjusting the Microphone Volume](#)

[Go to Page Top](#)

User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

Keyboard

[What should I do if my keyboard configuration is wrong?](#)

[What should I do if I cannot enter certain characters with my keyboard?](#)

[What should I do if my VAIO computer screen freezes?](#)

[What should I do if the pointer does not move?](#)

[What should I do if I cannot enter numbers with the numeric keypad?](#)

[Go to Page Top](#)

You might be looking for the following topics:

- [Changing the Keyboard Backlight Settings \(Keyboard backlight equipped models\)](#)
- [Entering Characters with Touch Screen Operations \(Touch screen equipped models\)](#)
- [Combinations and Functions with the Fn Key](#)

[Go to Page Top](#)



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

Touch pad

[Why can't I use the touch pad?](#)

[How do I avoid unintentional clicks caused by a light touch on the touch pad?](#)

[How do I disable the touch pad?](#)

[What should I do if my VAIO computer screen freezes?](#)

[What should I do if the pointer does not move?](#)

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Enabling/Disabling the Gesture Function](#)
- [Disabling the Tapping Function on the Touch Pad](#)
- [Enabling/Disabling the Touch Pad](#)
- [Using the Touch Pad](#)

[↑ Go to Page Top](#)

User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

Camera

[What should I do if captured images flicker?](#)

[Why is the video input from the built-in camera suspended momentarily?](#)

[Why does the viewfinder show no images or poor-quality images?](#)

[What should I do if captured images contain dropped frames and audio interruptions?](#)

[Why are captured images poor in quality?](#)

[Go to Page Top](#)

You might be looking for the following topics:

- [Using the Built-in Camera \(Built-in camera equipped models\)](#)
- [Notes on the Built-in Camera \(Built-in camera equipped models\)](#)

[Go to Page Top](#)



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

LAN

[How can I find the physical address \(MAC address\) of the built-in wireless network interface of my VAIO computer?](#)

[What should I do if I cannot play back movies or audio tracks received via Wi-Fi\(R\) \(Wireless LAN\), or their playback is interrupted? Why is the data transfer speed slow?](#)

[What should I do if I cannot use the Wi-Fi\(R\) \(Wireless LAN\) function?](#)

[What should I do if I do not know the SSID or security key for the access point?](#)

[What should I do if I cannot connect my VAIO computer to an access point \(or the Internet\)?](#)

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [About the Wi-Fi\(R\) \(Wireless LAN\) Standards](#)
- [Connecting to the Internet with a Wired Connection](#)
- [About the Internet Connection Services](#)
- [About the Network \(LAN\)](#)
- [About a Security Key for Wi-Fi\(R\) \(Wireless LAN\)](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

Wi-Fi

[How can I find the physical address \(MAC address\) of the built-in wireless network interface of my VAIO computer?](#)

[What should I do if I cannot play back movies or audio tracks received via Wi-Fi\(R\) \(Wireless LAN\), or their playback is interrupted? Why is the data transfer speed slow?](#)

[What should I do if I cannot use the Wi-Fi\(R\) \(Wireless LAN\) function?](#)

[What should I do if I do not know the SSID or security key for the access point?](#)

[What should I do if I cannot connect my VAIO computer to an access point \(or the Internet\)?](#)

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Notes on Using the Wi-Fi\(R\) \(Wireless LAN\) Function](#)
- [Disabling the Wi-Fi\(R\) \(Wireless LAN\) Function](#)
- [About the Wi-Fi\(R\) \(Wireless LAN\) Standards](#)
- [Stopping Wi-Fi\(R\) \(Wireless LAN\) Communications](#)
- [About the Internet Connection Services](#)
- [About a Security Key for Wi-Fi\(R\) \(Wireless LAN\)](#)
- [Starting Wi-Fi\(R\) \(Wireless LAN\) Communications](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

BLUETOOTH

[Why is my BLUETOOTH\(R\) connection slow?](#)

[Why can't I use the BLUETOOTH\(R\) function when I sign in to my VAIO computer as a user with a standard user account?](#)

[Why can't I use BLUETOOTH\(R\) devices when I switch users?](#)

[What should I do if I cannot find the BLUETOOTH\(R\) device I want to communicate with?](#)

[What should I do if the BLUETOOTH\(R\) icon is not displayed in the desktop notification area?](#)

[What should I do if other BLUETOOTH\(R\) devices cannot connect to my VAIO computer?](#)

[What should I do if I cannot use the BLUETOOTH\(R\) function?](#)

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Notes on Using the BLUETOOTH\(R\) Function](#)
- [About BLUETOOTH\(R\) Security](#)
- [Stopping BLUETOOTH\(R\) Communications](#)
- [Communicating with Another BLUETOOTH\(R\) Device such as a Mouse](#)
- [About the BLUETOOTH\(R\) Function](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

Password

[What should I do if the Enter Onetime Password message appears and Windows does not start after I enter a wrong power-on password three times consecutively?](#)

[What should I do if I forget the power-on password to start my VAIO computer?](#)

[What should I do if I forget the Windows password?](#)

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [About User Account Types](#)
- [Switching from a Local Account to a Microsoft Account](#)
- [Setting/Changing the Power-on Password](#)
- [Creating/Changing/Removing Your Windows Password](#)
- [Removing the Power-on Password](#)

[↑ Go to Page Top](#)



[Back](#) | [Back to Top](#)

BIOS

[What should I do if I forget the power-on password to start my VAIO computer?](#)

[Go to Page Top](#)

You might be looking for the following topics:

- [About the ASSIST Button](#)
- [Setting/Changing the Power-on Password](#)
- [Booting Your VAIO Computer from External Devices](#)
- [Removing the Power-on Password](#)

[Go to Page Top](#)

User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

USB

[What should I do if I cannot charge the device connected to the USB port that supports USB charging?](#)


[Go to Page Top](#)

You might be looking for the following topics:

- [Connecting a USB Device](#)
- [Charging a USB Device](#)
- [What should I do if I cannot print a document?](#)
- [What should I do if my VAIO computer does not recognize the USB device?](#)

[Go to Page Top](#)

User Guide

 How to Use

 Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

Memory card

[Why can't I write data to a memory card?](#)

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Inserting SD Memory Cards](#)
- [Notes on Using SD Memory Cards](#)
- [Removing SD Memory Cards](#)

[↑ Go to Page Top](#)

User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

Software

[Why do sound interruptions and/or dropped frames occur when I play high-definition videos, such as those recorded with the AVCHD digital video camcorder?](#)

[Go to Page Top](#)

You might be looking for the following topics:

- [What should I do if my game app does not work or it keeps crashing?](#)

[Go to Page Top](#)




[Back](#) | [Back to Top](#)

Computer

[Why is my VAIO computer running slowly and the CPU clock frequency low while the computer is running on battery power?](#)

[↑ Go to Page Top](#)

 How to Use

 Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

NFC/One-touch functions

[What should I do if I cannot use NFC/One-touch functions?](#)

[Go to Page Top](#)

You might be looking for the following topics:

- [Notes on NFC/One-touch functions \(NFC supported models\)](#)
- [Disabling NFC/One-touch functions \(NFC supported models\)](#)
- [About One-touch functions \(NFC supported models\)](#)
- [About NFC \(NFC supported models\)](#)
- [Using NFC/One-touch functions \(NFC supported models\)](#)

[Go to Page Top](#)



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

Display

Why do sound interruptions and/or dropped frames occur when I play high-definition videos, such as those recorded with the AVCHD digital video camcorder?

[Go to Page Top](#)

You might be looking for the following topics:

- [About the Start Screen and Menu](#)
- [Opening the Desktop](#)
- [Connecting a TV with an HDMI Input Port](#)
- [Selecting Display Modes](#)
- [Using the Multiple Monitors Function](#)
- [Notes on the LCD screen](#)
- [Changing the Resolution \(Size\) of the Screen Image on an HDMI-Connected Device](#)
- [Enlarging the Text Size \(DPI\) \(Touch screen equipped models\)](#)
- [Notes on Using the Touch Screen \(Touch screen equipped models\)](#)
- [Changing the Resolution \(Size\) of the Screen Image](#)
- [How to Use the Touch Screen \(Touch screen equipped models\)](#)
- [Changing the LCD Brightness](#)
- [About the Touch Screen \(Touch screen equipped models\)](#)
- [What should I do if captured images flicker?](#)
- [Why does the viewfinder show no images or poor-quality images?](#)
- [What should I do if captured images contain dropped frames and audio interruptions?](#)
- [How do I change the LCD brightness?](#)
- [What should I do if no image is displayed on my external display or TV screen?](#)
- [What should I do if videos are not displayed smoothly?](#)
- [What should I do if no image is displayed on my TV screen or external display connected to the HDMI output port?](#)
- [What should I do if videos are not displayed on the computer screen?](#)
- [What should I do if my computer screen goes blank?](#)
- [What should I do if some items do not fit on the computer screen?](#)

[Go to Page Top](#)



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

Software

[What should I do if my game app does not work or it keeps crashing?](#)

[Why do sound interruptions and/or dropped frames occur when I play high-definition videos, such as those recorded with the AVCHD digital video camcorder?](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

LAN

[How can I find the physical address \(MAC address\) of the built-in wireless network interface of my VAIO computer?](#)

[What should I do if I cannot play back movies or audio tracks received via Wi-Fi\(R\) \(Wireless LAN\), or their playback is interrupted? Why is the data transfer speed slow?](#)

[What should I do if I cannot use the Wi-Fi\(R\) \(Wireless LAN\) function?](#)

[What should I do if I do not know the SSID or security key for the access point?](#)

[What should I do if I cannot connect my VAIO computer to an access point \(or the Internet\)?](#)

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [About the Wi-Fi\(R\) \(Wireless LAN\) Standards](#)
- [Connecting to the Internet with a Wired Connection](#)
- [About the Internet Connection Services](#)
- [About the Network \(LAN\)](#)
- [About a Security Key for Wi-Fi\(R\) \(Wireless LAN\)](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

Wi-Fi

[How can I find the physical address \(MAC address\) of the built-in wireless network interface of my VAIO computer?](#)

[What should I do if I cannot play back movies or audio tracks received via Wi-Fi\(R\) \(Wireless LAN\), or their playback is interrupted? Why is the data transfer speed slow?](#)

[What should I do if I cannot use the Wi-Fi\(R\) \(Wireless LAN\) function?](#)

[What should I do if I do not know the SSID or security key for the access point?](#)

[What should I do if I cannot connect my VAIO computer to an access point \(or the Internet\)?](#)

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Notes on Using the Wi-Fi\(R\) \(Wireless LAN\) Function](#)
- [Disabling the Wi-Fi\(R\) \(Wireless LAN\) Function](#)
- [About the Wi-Fi\(R\) \(Wireless LAN\) Standards](#)
- [Stopping Wi-Fi\(R\) \(Wireless LAN\) Communications](#)
- [About the Internet Connection Services](#)
- [About a Security Key for Wi-Fi\(R\) \(Wireless LAN\)](#)
- [Starting Wi-Fi\(R\) \(Wireless LAN\) Communications](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

BLUETOOTH

[Why is my BLUETOOTH\(R\) connection slow?](#)

[Why can't I use the BLUETOOTH\(R\) function when I sign in to my VAIO computer as a user with a standard user account?](#)

[Why can't I use BLUETOOTH\(R\) devices when I switch users?](#)

[What should I do if I cannot find the BLUETOOTH\(R\) device I want to communicate with?](#)

[What should I do if the BLUETOOTH\(R\) icon is not displayed in the desktop notification area?](#)

[What should I do if other BLUETOOTH\(R\) devices cannot connect to my VAIO computer?](#)

[What should I do if I cannot use the BLUETOOTH\(R\) function?](#)

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Notes on Using the BLUETOOTH\(R\) Function](#)
- [About BLUETOOTH\(R\) Security](#)
- [Stopping BLUETOOTH\(R\) Communications](#)
- [Communicating with Another BLUETOOTH\(R\) Device such as a Mouse](#)
- [About the BLUETOOTH\(R\) Function](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

Recovery

[What should I do if my VAIO computer becomes unstable \(Windows starts\)?](#)

[What should I do if my VAIO computer becomes unstable \(Windows does not start\)?](#)

[What should I do if I cannot start/complete the recovery process?](#)

[What should I do if I cannot create Recovery Media?](#)

[How do I create Recovery Media?](#)

[What should I do if I cannot recover my VAIO computer from the recovery area?](#)

[How can I restore my VAIO computer system to its factory default settings?](#)

[How can I reinstall the original apps and drivers?](#)

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [About the ASSIST Button](#)
- [Removing Recovery Content to Free up Disk Space](#)
- [Recovering from Recovery Media](#)
- [Creating Recovery Media](#)
- [Checking the Volume of the Recovery Area](#)
- [Notes on Recovery](#)
- [About Recovery](#)
- [Recovering from the Recovery Area](#)
- [Refreshing Your VAIO Computer](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

Password

[What should I do if the Enter Onetime Password message appears and Windows does not start after I enter a wrong power-on password three times consecutively?](#)

[What should I do if I forget the power-on password to start my VAIO computer?](#)

[What should I do if I forget the Windows password?](#)

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [About User Account Types](#)
- [Switching from a Local Account to a Microsoft Account](#)
- [Setting/Changing the Power-on Password](#)
- [Creating/Changing/Removing Your Windows Password](#)
- [Removing the Power-on Password](#)

[↑ Go to Page Top](#)



[Back](#) | [Back to Top](#)

BIOS

[What should I do if I forget the power-on password to start my VAIO computer?](#)

[Go to Page Top](#)

You might be looking for the following topics:

- [About the ASSIST Button](#)
- [Setting/Changing the Power-on Password](#)
- [Booting Your VAIO Computer from External Devices](#)
- [Removing the Power-on Password](#)

[Go to Page Top](#)

User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics



[Back](#) | [Back to Top](#)

USB

[What should I do if I cannot print a document?](#)

[What should I do if my VAIO computer does not recognize the USB device?](#)

[↑ Go to Page Top](#)

You might be looking for the following topics:

- [Connecting a USB Device](#)
- [Charging a USB Device](#)
- [What should I do if I cannot charge the device connected to the USB port that supports USB charging?](#)

[↑ Go to Page Top](#)

User Guide

[How to Use](#)

[Troubleshooting](#)

[Hardware](#)

[Apps](#)

[Network / Internet](#)

[Backup / Recovery](#)

[Security](#)

[Peripheral Devices](#)

[List of Topics](#)



[Back](#) | [Back to Top](#)


Printer

[What should I do if I cannot print a document?](#)

[What should I do if my VAIO computer does not recognize the USB device?](#)

[Go to Page Top](#)

User Guide

 [How to Use](#)

 [Troubleshooting](#)

[Hardware](#)


[Apps](#)

[Network / Internet](#)

[Backup / Recovery](#)

[Security](#)

[Peripheral Devices](#)

 [List of Topics](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Controlling the Power State of Your VAIO Computer (Sleep Mode/Shutdown)

By default, your VAIO computer automatically enters Sleep mode after a certain period of inactivity.

In Sleep mode, the computer will retain its current state, including data you are working on, while you take a break.

See [Using Sleep Mode](#) for more information on Sleep mode.

When you do not use your VAIO computer for a while

To avoid losing unsaved data, follow these steps to shut down your VAIO computer.

1. Save your data and close all running apps.
2. Turn off any peripherals connected to your VAIO computer.
3. Open the charms, and then select the **Settings** charm. (See [Opening the Charms](#) to open the charms.)
4. Select **Power** and **Shut down**.
After a short time, your VAIO computer automatically turns off. If the computer is equipped with the power indicator, the green power indicator light turns off. If your VAIO computer is equipped with the power indicator, make sure it is off before closing the LCD screen lid.

Note

- An improper shutdown may cause loss of unsaved data or cause your VAIO computer to malfunction.
- To disconnect your VAIO computer completely from an AC power source, turn off the computer, and then unplug the power cord from the AC outlet.

Hint

- If you select **Shut down** while holding down the **Shift** key in step 4, you can place your VAIO computer into the minimum power consumption state (ACPI S5 mode). In this case, the fast boot function is temporarily disabled on the next start-up.

[Go to Page Top](#)

Related Topic

- [Turning On Your VAIO Computer](#)
- [Restarting Your VAIO Computer](#)
- [Notes on Using the Power Source](#)

[Go to Page Top](#)





User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting



List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Restarting Your VAIO Computer

After changing the settings or installing an app on your VAIO computer, you may be required to restart the computer.

1. Save your data and close all running apps.
2. Open the charms and select the  **Settings** charm. (See [Opening the Charms](#) to open the charms.)
3. Select  **Power** and **Restart**.
Your VAIO computer will restart.

 [Go to Page Top](#)

Related Topic

- [Turning On Your VAIO Computer](#)
- [Controlling the Power State of Your VAIO Computer \(Sleep Mode/Shutdown\)](#)

 [Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Using Sleep Mode

In Sleep mode, you can step away from your VAIO computer while retaining the computer's state including data you are working on.

To activate Sleep mode

1. Open the charms and select the **Settings** charm. (See [Opening the Charms](#) to open the charms.)
2. Select **Power** and **Sleep**.
If your VAIO computer is equipped with the power indicator, it turns off when the computer enters Sleep mode (with the default setting).

To return to Normal mode

1. Press the (Power) button.

Note

- If you press and hold down the (Power) button for more than four seconds, your VAIO computer will turn off automatically. Doing this will erase all unsaved data.
- By default, your VAIO computer automatically enters Hibernate mode when the battery pack is running out of power. However, depending on the operating conditions, the computer may fail to enter Hibernate mode.
If this occurs and the battery pack is running out of power, the computer will be turned off, resulting in loss of unsaved data.
While the computer is running on battery power, save data frequently.
- Before moving your VAIO computer, make sure that the computer is off to avoid impact or vibration to the running hard disk drive. If the computer is equipped with the power indicator, make sure that it is completely off.

Hint

- By default, your VAIO computer enters Sleep mode automatically after a certain period of inactivity while running on AC power.
- The operations below also place your VAIO computer into Sleep mode.
 - Press the (Power) button (with the default setting).
 - Close the LCD screen lid. The computer will enter Sleep mode after a few seconds.
- You can restore your VAIO computer from Sleep mode to Normal mode by opening or raising the LCD screen.
To change the action when you open or raise the LCD screen, start **VAIO Control Center** and change the settings in **Power and Battery**. To start **VAIO Control Center**, see [Searching/Starting Apps, Settings, or Files](#).

[Go to Page Top](#)

Related Topic

- [Notes on Using the Power Source](#)
- [Notes on Sleep Mode](#)

- [Extending the Battery Life](#)
- [Changing the Rapid Wake \(Sleep Mode\) Settings](#)

[↑ Go to Page Top](#)

[Back](#) | [Back to Top](#) [Print](#)

User Guide

How to Use

[Windows 8: The Basics](#)[Parts Description](#)[Setup](#)[Network / Internet](#)[Connections](#)[Settings](#)[Playback](#)[Backup / Recovery](#)[Security](#)[Other Operations](#)[Notifications](#)

Troubleshooting

List of Topics

Entering Sleep Mode, Shutting Down, or Restarting

You can place your VAIO computer into Sleep mode or shut down/restart the computer by following these steps.

1. Open the charms and select the **Settings** charm. (See [Opening the Charms](#) to open the charms.)
2. Select **Power and Sleep, Shut down, or Restart**.

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

About the Start Screen and Menu

You can add shortcuts to apps, the desktop, and websites that you use the most.

Overview



- 1** Tiles
Select a tile to start an app and personalize the **Start** screen by adding and rearranging tiles.
- 2** Charms
Search for apps and files, share content, play content on other devices or print, and set up your VAIO computer.

To open the Start screen

Touch operation (Touch screen equipped models)

Open the charms, then tap the **Start** charm. (See [Opening the Charms](#) to open the charms.)

Mouse/Touch pad operation

Open the charms, then click the **Start** charm. (See [Opening the Charms](#) to open the charms.)

Keyboard operation

Press the (Windows) key.

[Go to Page Top](#)

Related Topic

- [Opening the Charms](#)
- [Opening the Desktop](#)

[Go to Page Top](#)

[Back](#) | [Back to Top](#) [Print](#)

User Guide

How to Use

[Windows 8: The Basics](#)[Parts Description](#)[Setup](#)[Network / Internet](#)[Connections](#)[Settings](#)[Playback](#)[Backup / Recovery](#)[Security](#)[Other Operations](#)[Notifications](#)

Troubleshooting

List of Topics

Opening the Desktop

You can access the desktop from a tile, just like an app. Open the desktop by following the instruction below.

1. Open the **Start** screen and select the **Desktop** tile. (See [About the Start Screen and Menu](#) to open the **Start** screen.)

[↑ Go to Page Top](#)

Related Topic

- [About the Start Screen and Menu](#)

[↑ Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Installing Apps from Windows Store

You can install apps from **Windows Store**.

You will need a Microsoft account to use certain apps or services, including **Windows Store**.

On how to create and what you can do with the Microsoft account, refer to **Windows Help and Support** ([Opening Windows Help and Support](#)).

1. Connect to the Internet.
See [Connecting to the Internet with a Wired Connection](#) for more information on how to connect to the Internet.
2. Open the **Start** screen and select the **Store** tile. (See [About the Start Screen and Menu](#) to open the **Start** screen.)



3. Find an app to install.
4. Follow the on-screen instructions to install the app.

[Go to Page Top](#)

Related Topic

- [Searching/Starting Apps, Settings, or Files](#)
- [Opening the App Menu](#)
- [Closing Apps](#)
- [Switching Apps](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

About User Account Types

There are two types of user accounts available in Windows 8: a local account and a Microsoft account.

Local account

A local account is a user name and password that you set on your VAIO computer. Because one local account is expected to be used for a single computer, you cannot share the same account on multiple computers.

Hint

- Setting a local account password is optional. If you forget your local account password, recover your VAIO computer.

Microsoft account

A Microsoft account is an email address and password that you use to sign in to Microsoft services. Because a Microsoft account can be set for each user, you can share the same account on multiple computers. To download apps from **Windows Store**, you need to switch from a local account to a Microsoft account.

Hint

- Setting a Microsoft account password is required. If you forget your Microsoft account password, contact Microsoft support services.

[Go to Page Top](#)

Related Topic

- [Switching from a Local Account to a Microsoft Account](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Switching from a Local Account to a Microsoft Account

In Windows 8, you can switch between a local account and a Microsoft account. By switching from a local account to a Microsoft account, you can download apps from **Windows Store**.

To create or switch to a Microsoft account, follow these steps.

1. Open the charms and select the **Settings** charm. (See [Opening the Charms](#) to open the charms.)
2. Select **Change PC settings** in the lower right corner.
3. Select **Users** in the left pane of the **PC settings** screen.
4. Select **Switch to a Microsoft account**.
5. Follow the on-screen instructions.

Hint

- To switch to a local account, select **Switch to a local account** in step 4 instead of **Switch to a Microsoft account**.
- If you forget your Microsoft account password, contact Microsoft support services.

[Go to Page Top](#)

Related Topic

- [About User Account Types](#)
- [Installing Apps from Windows Store](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)


 [Print](#)

Switching User Accounts

You can switch to another user account by following these steps.

1. Open the **Start** screen and select an account name at the upper-right corner of the computer screen. (See [About the Start Screen and Menu](#) to open the **Start** screen.)
2. Select your desired account name.

Hint

- To create a new user account, you need to sign in as an administrator. Then, open the charms and select the  **Settings** charm. Select **Change PC settings** in the lower right corner, and select **Users** in the left pane. To open the charms, see [Opening the Charms](#).

 [Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

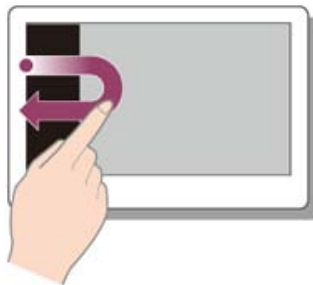
Viewing Running Apps

You can view running apps by displaying the list on the **Start** screen. See [About the Start Screen and Menu](#) for more information.



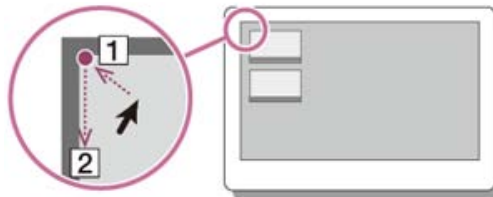
Touch operation (Touch screen equipped models)

Swipe in from the left edge until a small app icon appears, then drag the icon back towards the left edge.



Mouse/Touch pad operation

Point to the upper-left corner (**1**), then move downward (**2**).



Keyboard operation

Press the (Windows) key and the **Tab** key at the same time.



Related Topic

- [Searching/Starting Apps, Settings, or Files](#)
- [Opening the App Menu](#)
- [Closing Apps](#)
- [Switching Apps](#)
- [Installing Apps from Windows Store](#)

[↑ Go to Page Top](#)

[Back](#) | [Back to Top](#) [Print](#)

User Guide

How to Use

[Windows 8: The Basics](#)[Parts Description](#)[Setup](#)[Network / Internet](#)[Connections](#)[Settings](#)[Playback](#)[Backup / Recovery](#)[Security](#)[Other Operations](#)[Notifications](#)

Troubleshooting

List of Topics

Searching/Starting Apps, Settings, or Files

You can search apps, files, or settings on the charms, and then start your desired apps, files, or settings.

To search and start them, open the charms, select the **Search** charm, and follow these steps. To open the charms, see [Opening the Charms](#).

1. Enter a keyword in the search box (**1**).
2. Select **Apps**, **Settings**, or **Files** (**2**) to narrow the search result.
3. Select your desired app or file (**3**).



Hint

- When you open the **Search** charm with certain **Windows Store** apps running, you can search from within the running apps. If no apps are running, you can also search from within the apps by selecting **Apps** below the search box in step 2.

[Go to Page Top](#)

Related Topic

- [Opening the App Menu](#)
- [Viewing Running Apps](#)
- [Closing Apps](#)
- [Switching Apps](#)
- [Installing Apps from Windows Store](#)

[Go to Page Top](#)

[Back](#) | [Back to Top](#) [Print](#)

User Guide

How to Use

[Windows 8: The Basics](#)[Parts Description](#)[Setup](#)[Network / Internet](#)[Connections](#)[Settings](#)[Playback](#)[Backup / Recovery](#)[Security](#)[Other Operations](#)[Notifications](#)

Troubleshooting

List of Topics

Closing Apps

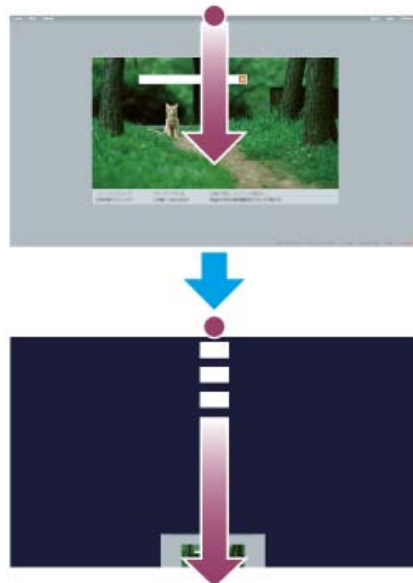
You can close currently running apps by following the instruction below.

Touch operation (Touch screen equipped models)

1. When an app is open, point to the top-center of the screen.
2. Drag the app to the bottom of the screen until the app disappears from the screen.

Mouse/Touch pad operation

1. When an app is open, move the cursor to the top-center of the screen until the hand icon appears.
2. Drag the app to the bottom of the screen until the app disappears from the screen.



Keyboard operation

Press the **Alt** key and the **F4** key at the same time.

[Go to Page Top](#)

Related Topic

- [Searching/Starting Apps, Settings, or Files](#)
- [Viewing Running Apps](#)
- [Opening the App Menu](#)
- [Switching Apps](#)
- [Installing Apps from Windows Store](#)

[↑ Go to Page Top](#)

User Guide

How to Use

[Windows 8: The Basics](#)[Parts Description](#)[Setup](#)[Network / Internet](#)[Connections](#)[Settings](#)[Playback](#)[Backup / Recovery](#)[Security](#)[Other Operations](#)[Notifications](#)

Troubleshooting

List of Topics

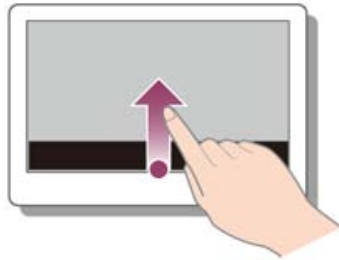
[Back](#) | [Back to Top](#) [Print](#)

Opening the App Menu

Many apps have app menus that you can use to control your app. Follow the instructions below to open the app menu.

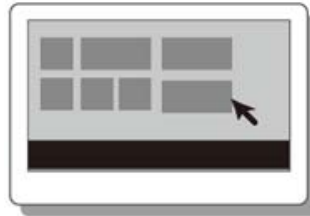
Touch operation (Touch screen equipped models)

Swipe up from the bottom edge.



Mouse/Touch pad operation

When an app is open, right-click anywhere on the screen. On a touch pad, click the bottom-right corner.



Keyboard operation

Press the  (Windows) key and the **Z** key at the same time.



Hint

- Open the app menu when an app is displayed on the computer screen.
- App commands vary depending on the app that is currently displayed on the computer screen.

[Go to Page Top](#)

Related Topic

- [Searching/Starting Apps, Settings, or Files](#)
- [Viewing Running Apps](#)
- [Closing Apps](#)

- [Switching Apps](#)
- [Installing Apps from Windows Store](#)

[↑ Go to Page Top](#)

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User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Switching Apps

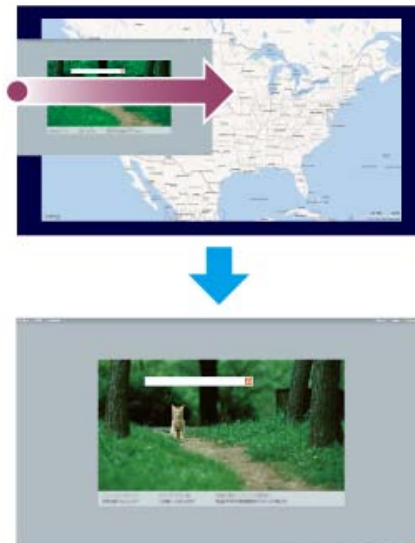
You can switch between apps that are currently running.

Touch operation (Touch screen equipped models)

Display currently running apps, touch and swipe in your desired app icon from the left edge. To display the currently running apps, see [Viewing Running Apps](#).

Mouse/Touch pad operation

Display currently running apps and drag your desired app icon from the left edge to the center. To display the currently running apps, see [Viewing Running Apps](#).



[Go to Page Top](#)

Related Topic

- [Searching/Starting Apps, Settings, or Files](#)
- [Opening the App Menu](#)
- [Viewing Running Apps](#)
- [Closing Apps](#)
- [Installing Apps from Windows Store](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

Opening Control Panel

You can open **Control Panel** by following these steps.

1. Open the charms and select the **Search** charm. (See [Opening the Charms](#) to open the charms.)
2. Select **Apps** (**1**).
3. Enter "Control Panel" in the search box (**2**).
4. Select **Control Panel** (**3**).



[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

? Troubleshooting

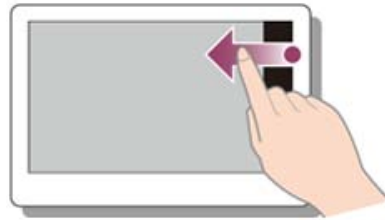
☰ List of Topics

Opening the Charms

You can open the charms to search for apps and files, share content, play content on other devices or print, and set up your VAIO computer.

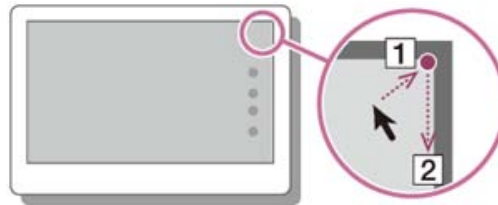
Touch operation (Touch screen equipped models)

Swipe in from the right edge.



Mouse/Touch pad operation

Point to the upper-right corner (1), then move downward (2).
With a touch pad, you can also swipe in from the right edge.



Keyboard operation

Press the (Windows) key and the **C** key at the same time.



[Go to Page Top](#)

Related Topic

- [About the Start Screen and Menu](#)
- [Searching/Starting Apps, Settings, or Files](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

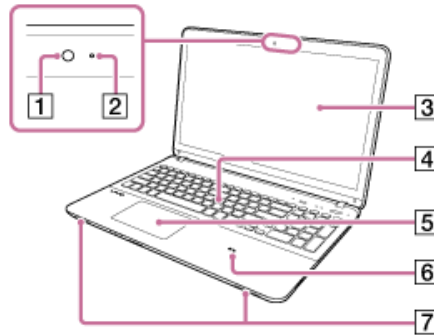
List of Topics



[Back](#) | [Back to Top](#)

 [Print](#)

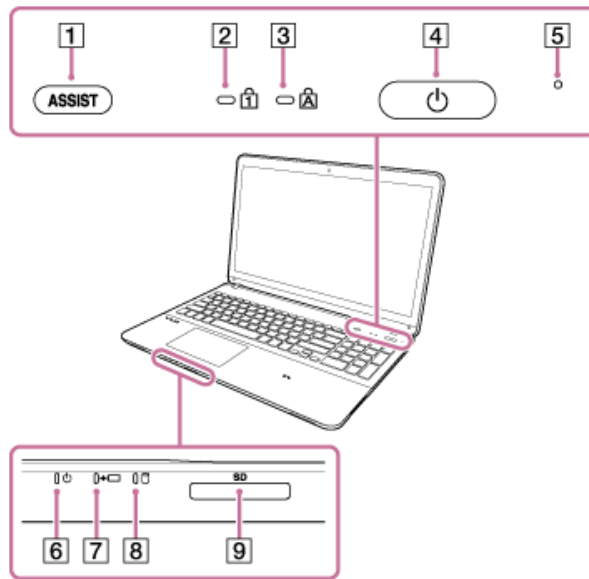
Parts and Controls on the Front







Describes the features on the front of the VAIO computer, such as buttons and indicator lights.



- 1** Built-in camera* ([Using the Built-in Camera \(Built-in camera equipped models\)](#))
- 2** Built-in camera indicator ([Using the Built-in Camera \(Built-in camera equipped models\)](#))
- 3** LCD screen or touch screen (Touch screen equipped models) ([How to Use the Touch Screen \(Touch screen equipped models\)](#))
- 4** Keyboard
- 5** Touch pad ([Using the Touch Pad](#))
- 6**   Touch mark (NFC supported models) ([Using NFC/One-touch functions \(NFC supported models\)](#))
- 7** Built-in speakers (stereo)

* The shape of the built-in camera depends on the model.



- 1 **ASSIST** button ([About the ASSIST Button](#))
- 2  Num lock indicator
- 3  Caps lock indicator
- 4  Power button ([Turning On Your VAIO Computer](#))
- 5 Built-in microphone (monaural) ([Using the Built-in Camera \(Built-in camera equipped models\)](#))
- 6  Power indicator ([Turning On Your VAIO Computer](#))
- 7  Charge indicator ([Charge Indicator Status List](#))
- 8  Disc drive indicator
- 9 **SD** memory card slot ([Inserting SD Memory Cards](#))

[↑ Go to Page Top](#)

Related Topic

- [Parts and Controls on the Sides](#)
- [Parts and Controls on the Bottom](#)

[↑ Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

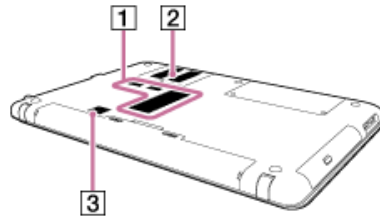
List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Parts and Controls on the Bottom

Describes the features on the bottom of the VAIO computer.



- 1** Air intake vents
- 2** Memory module compartment cover ([Adding and Removing Memory Modules](#))
- 3** Subwoofer (Subwoofer equipped models)

[Go to Page Top](#)

Related Topic

- [Parts and Controls on the Front](#)
- [Parts and Controls on the Sides](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

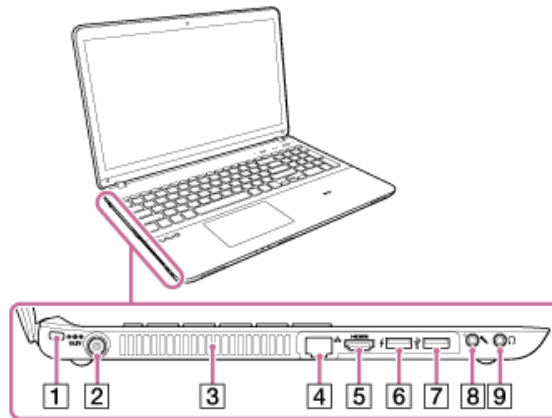
List of Topics

[Back](#) | [Back to Top](#)

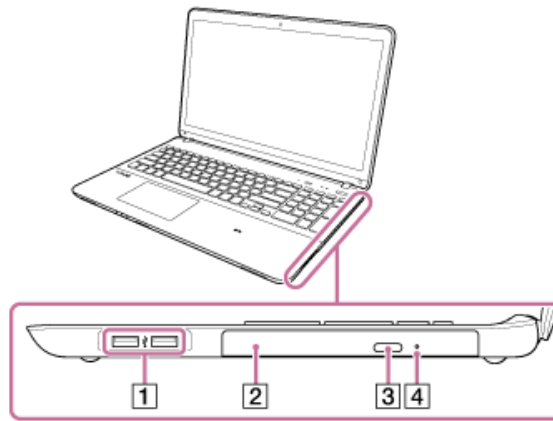
 [Print](#)

Parts and Controls on the Sides

Describes the features on the sides of the VAIO computer, such as connection ports.



- 1** Security slot
- 2**  DC IN port ([Connecting a Power Source](#))
- 3** Air exhaust vent
- 4**  LAN port ([Connecting to the Internet with a Wired Connection](#))
- 5** **HDMI** output port ([Connecting a TV with an HDMI Input Port](#))
- 6**   USB port ([Connecting a USB Device](#))
This USB port supports USB charging. See [Charging a USB Device](#) for more information.
- 7**  USB port ([Connecting a USB Device](#))
- 8**  Microphone jack ([Connecting an External Microphone \(Microphone jack equipped models\)](#))
- 9**  Headphone jack ([Connecting External Speakers or Headphones](#))



- 1 USB port × 2 ([Connecting a USB Device](#))
- 2 Optical disc drive ([Inserting/Removing a Disc \(Optical disc drive equipped models\)](#))
- 3 Drive eject button ([Inserting/Removing a Disc \(Optical disc drive equipped models\)](#))
- 4 Manual eject hole

[↑ Go to Page Top](#)

Related Topic

- [Parts and Controls on the Front](#)
- [Parts and Controls on the Bottom](#)

[↑ Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Notes on Adding and Removing Memory Modules

Before adding or removing memory modules, read the following precautions thoroughly.

- Your VAIO computer and memory modules use high precision components and electronic connector technology. To avoid invalidation of the warranty during your product warranty period, we recommend that:
 - You should contact your dealer to install a new memory module.
 - You should not install a memory module by yourself, if you are not familiar with upgrading memory on a computer.
 - You should not touch the connectors or open the memory module compartment cover.
- For assistance, contact an authorized Sony service/support center. To find the nearest center or agent, see [About Online Support Website](#).
- If you add or remove memory modules by yourself, your VAIO computer may result in malfunction or accident caused by breakage of slot and module, or connection mistake. In this case, repair fee will be charged.
- Be careful not to injure your hands or fingers with sharp edges of the memory module, inner components, or circuit boards of your VAIO computer.
- Be careful not to catch your fingers on any inner cables of your VAIO computer, as the cable may become loose or disconnected.
- If your VAIO computer is turned on while liquid such as water or other foreign object remains inside, it may cause a fire. Be sure to remove any foreign objects and attach the memory module compartment cover before turning on your VAIO computer.
- Sony does not guarantee that third party memory modules will work in your VAIO computer. For information on third party memory modules, consult the respective sales dealers.
- Be sure to turn off your VAIO computer and peripherals and disconnect all attachments and connection cables before adding or removing memory modules. Failure to do so may cause damage to the memory module, your VAIO computer, or peripheral devices.
- To prevent damage from electrostatic discharge to memory modules, follow the instructions below:
 - Do not work at a place that produces static electricity easily, such as on a carpet.
 - Before adding or removing memory modules, touch an external metal object from your VAIO computer to eliminate static electricity. Do not touch any metal parts inside the computer.
 - Do not open the memory module package before you are ready to install the module. The package protects the module from ESD (electrostatic discharge). To store the module, cover it with an antistatic bag or a sheet of aluminum foil.
- When holding a memory module, do not touch the chips or electrical terminal of the module.

- Do not insert a memory module into the slot facing in wrong direction. It may cause damage to the module or slot, or cause the circuit board to catch fire.
- Use a screwdriver that matches the size of the screw (such as a miniature screwdriver).
- Do not remove or loosen screws that are not specified to be removed.

[↑ Go to Page Top](#)

Related Topic

- [Adding and Removing Memory Modules](#)
- [Viewing the System Information](#)

[↑ Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Adding and Removing Memory Modules

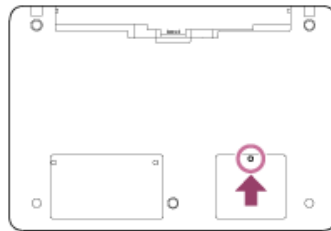
If you want to increase your computer's speed or improve performance when running programs simultaneously, increase the amount of memory by installing optional memory modules.

Before you upgrade your computer's memory, see [Notes on Adding and Removing Memory Modules](#).

If you install memory modules into two or more slots, the dual-channel mode is enabled to help improve performance.

The type of module and the amount of memory installed on your computer may differ depending on the model.

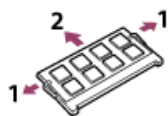
1. Turn off your VAIO computer and peripheral devices, disconnect the power cord and all connection cables, and remove the battery pack.
See [Removing the Battery Pack](#) for information on how to remove the battery pack.
2. Wait for a while until your VAIO computer cools down.
The inner parts of your VAIO computer may be hot just after turning off. Be careful to avoid burns while handling your VAIO computer in this state.
3. Lay a clean cloth on a level, flat surface, place your VAIO computer on it as illustrated below. Remove the screws with a cross slot screwdriver to open the memory module compartment cover.
The screw locations are indicated by the arrows in the illustration below.
On some models, captive screws are used on the memory module compartment cover and cannot be detached from the cover.



A protective sheet covers the memory module under the cover. Lift the sheet when installing/removing the memory module.

Be careful not to lift the sheet so much that it is detached or folded back.

4. Touch an external metal object to discharge static electricity.
Do not touch any metal parts inside your VAIO computer.
5. If there is no free slot, remove the currently installed memory module. Pull the latches in the direction of the arrows to pop up the module at an angle (1), then pull the module out in the direction of the arrow (2).



6. Remove the new memory module from its antistatic bag.

7. Hold the memory module by its edge and slide it into the memory module slot with its end terminal facing downward while aligning the notch on the module with the small projection in the slot.



8. Hold the memory module by its edge and push in until it clicks into place as shown in the illustration.
The latches on both sides of the slot snap into place to secure the module. Do not touch any ICs (black components) on the memory module.



9. Replace the memory module compartment cover and secure it with the screws you removed in step 3.
10. Install the battery pack and connect all connection cables and peripherals that you removed in step 1, and turn on the computer.
11. Check that the amount of system memory has correctly changed.
If the amount of indicated system memory is correct, memory module installation was successful.
To check the system information, see [Viewing the System Information](#).

[Go to Page Top](#)

Related Topic

- [Notes on Adding and Removing Memory Modules](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

? Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Setting Up an Appropriate Work Environment

This topic describes where to or not to place your VAIO computer and ergonomic instructions.

Where to place your VAIO computer

When placing your VAIO computer, ensure that:

- You have easy access to a power source and necessary ports.
- You leave enough space around the computer.
- The computer is placed on a flat surface that is wide enough and you can face the computer screen as you operate it.
- You can place the computer in front of you where you can sit upright and keep your forearms parallel to the floor.

Where not to place your VAIO computer

Placing your VAIO computer in an inappropriate location may cause damage or a malfunction. Do not place the computer in a location subject to:

- Direct sunlight
- Magnetic items or sources
- Heat sources, such as residential heating equipment
- Excessive dust
- High humidity
- Poor ventilation

Note

- The area around the air exhaust vent may become extremely hot while your VAIO computer is on. Be careful before touching the area.
- Do not place any object near the air exhaust vent that may block the vent.

Hint

- Your VAIO computer uses high-frequency radio signals and may cause interference to radio or TV reception. If this occurs, move the computer a suitable distance away from the radio or TV.

Ergonomic considerations

Whenever possible, you should attempt to take account of the following ergonomic considerations.

Furniture and posture

Sit in a chair with good back support. Adjust the level of the chair so your feet are flat on the floor. A footrest may make you more comfortable.

Sit in a relaxed, upright posture and avoid slouching forward or leaning far

backwards.

Viewing angle of the computer screen

Use the screen tilting feature to find the best position. Make sure the computer screen is at or slightly below eye level when you are sitting in front of your VAIO computer. Adjust the brightness level of the display as well.

You can reduce eye strain and muscle fatigue by adjusting the tilt and brightness level of the computer screen to the proper position.

Lighting

Choose a location where windows and lights do not cause glare and reflection on the computer screen. Use indirect lighting to avoid bright spots on the computer screen. Proper lighting adds to your comfort and work efficiency.

Note

- While adjusting the viewing angle, do not exert excessive pressure on your VAIO computer to eliminate a risk of mechanical damage.

Hint

- The same considerations apply when you use an external display.

Notes on handling your VAIO computer

Observe the following to avoid malfunctions and damage to your VAIO computer.

- Place your VAIO computer gently on a flat surface to avoid a mechanical shock.
- Be sure to turn off your VAIO computer before moving the computer. Moving the computer that is turned on may cause a hard disk malfunction. Be sure to disconnect all cables connected to the computer before moving it.
- Do not drop or hit your VAIO computer. Even a slight shock or vibration may cause a hard disk malfunction.
- Do not place your VAIO computer in an unstable position.

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Checking Supplied Items

Check all items packed with the product before use.

AC adapter
Power cord
Battery pack*

*The battery pack is installed on your computer at the time of delivery.

Hint

- No Recovery Media is included because your VAIO computer can be recovered using data stored in the hard disk drive or SSD. See [Recovering from the Recovery Area](#) for more information.

 [Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

? Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)



 [Print](#)

Charging the Battery Pack

The battery pack can be charged even while you are using your VAIO computer when the computer is connected to a power source. The charging time may vary depending on operating conditions.

1. Install the battery pack into your VAIO computer. (See [Installing the Battery Pack](#).)
2. Plug your VAIO computer into an AC outlet. (See [Connecting a Power Source](#).)

Hint

- The charging time varies depending on ambient temperature. Note that at a low ambient temperature, it takes longer time to charge the battery pack.
- Open the desktop and select the battery icon, such as  (on battery) or  (plugged in), in the desktop notification area to check the battery status of your VAIO computer. To open the desktop, see [Opening the Desktop](#).

[Go to Page Top](#)

Related Topic

- [Charge Indicator Status List](#)
- [Checking the Battery Charge Capacity](#)
- [Extending the Battery Life](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Turning On Your VAIO Computer

Turn on your VAIO computer to start Windows.

Carefully read the precautions in [Notes on Using the Power Source](#) before turning on.

1. Install the battery pack on your VAIO computer. (See [Installing the Battery Pack](#).)
2. Connect your VAIO computer to an AC outlet. (See [Connecting a Power Source](#).)
3. Lift the LCD screen lid.
4. Press the (Power) button.
If your VAIO computer is equipped with the power indicator, it turns on in green.
The computer is turned on, and Windows starts after a while.

Note

- If you press and hold down the (Power) button for more than four seconds, your VAIO computer will not turn on.
- When opening the LCD screen lid, do not hold the built-in camera as it may cause your VAIO computer to malfunction. (Built-in camera equipped models)
- If you press the (Power) button with the LCD screen lid closed, your VAIO computer will not turn on.
- Do not touch the touch screen when turning on your VAIO computer as it may cause the computer to malfunction. (Touch screen equipped models)

Hint

- By default, your VAIO computer automatically enters Sleep mode after a certain period of inactivity while the computer is connected to an AC outlet. See [Using Sleep Mode](#) for more information.

[Go to Page Top](#)

Related Topic

- [Installing the Battery Pack](#)
- [Charging the Battery Pack](#)
- [Notes on Using the Battery Pack](#)
- [Connecting a Power Source](#)
- [Controlling the Power State of Your VAIO Computer \(Sleep Mode/Shutdown\)](#)
- [Restarting Your VAIO Computer](#)
- [Notes on Using the Power Source](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

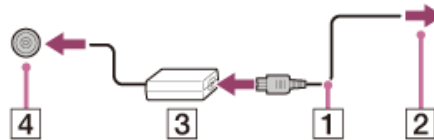
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Connecting a Power Source

Connect your VAIO computer to an AC power source.

Carefully read the precautions in [Notes on Using the Power Source](#) before connection.

1. Plug one end of the power cord (**1**) into the AC adapter (**3**).
2. Plug the other end of the power cord into an AC outlet (**2**).
3. Plug the cable from the AC adapter (**3**) into the DC IN port (**4**) on your VAIO computer.



Note

- Do not plug more than one device into the same AC outlet.
- The shape of the AC adapter varies depending on the model you purchased.
- Make sure that the power plug is firmly plugged into your VAIO computer.

Hint

- You can purchase a power strip with a surge protector to help prevent damage to your VAIO computer caused by sudden power surges (in an electrical storm, for example).

[Go to Page Top](#)

Related Topic

- [Installing the Battery Pack](#)
- [Charging the Battery Pack](#)
- [Notes on Using the Battery Pack](#)
- [Turning On Your VAIO Computer](#)
- [Controlling the Power State of Your VAIO Computer \(Sleep Mode/Shutdown\)](#)
- [Notes on Using the Power Source](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

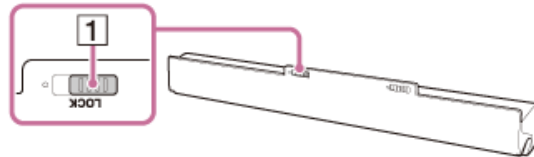
Troubleshooting

List of Topics

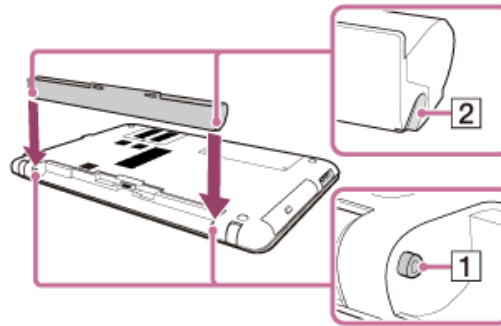
Installing the Battery Pack

Install the battery pack into the battery compartment of your VAIO computer.

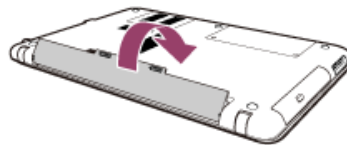
1. Turn off your VAIO computer, disconnect the power cord and all connection cables, and close the LCD screen lid.
2. Slide the battery **LOCK** switch (**1**) to the unlock position.



3. Slide the battery pack diagonally into the battery compartment until the projection (**1**) on each side of the battery compartment fits into the groove (**2**) on each side of the battery pack.



4. Turn the battery pack in the direction of the arrow and push the battery pack down into the compartment until it clicks into place.



5. Slide the battery **LOCK** switch to the **LOCK** position to secure the battery pack on your VAIO computer.

Note

- Make sure the battery **LOCK** switch is in the **LOCK** position before using your VAIO computer. Using the computer without locking the battery pack securely may cause the following: the battery pack comes away or the computer does not turn on or suddenly shuts down.

- [Charging the Battery Pack](#)
- [Notes on Using the Battery Pack](#)

[↑ Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

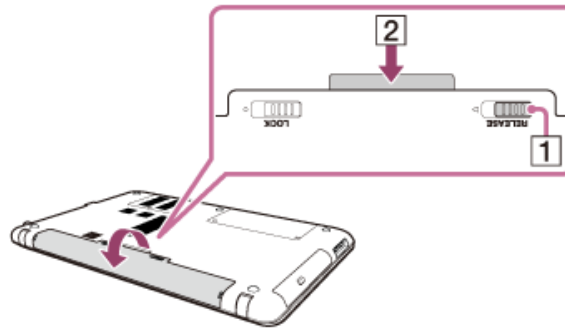
Troubleshooting

List of Topics

Removing the Battery Pack

Remove the battery pack from the battery compartment of your VAIO computer.

1. Turn off your VAIO computer, disconnect the power cord and all connection cables, and close the LCD screen lid.
2. Slide the battery **LOCK** switch to the unlock position.
3. Slide and hold the battery **RELEASE** latch (**1**), put your fingertip underneath the tab (**2**) on the battery pack, and lift the battery pack in the direction of the arrow.



4. Slide the battery pack away from your VAIO computer.

Note

- You will lose all unsaved data if you remove the battery pack while your VAIO computer is on or in Sleep mode and not connected to the AC adapter. Be sure to turn off the computer before removing the battery pack.

[Go to Page Top](#)

Related Topic

- [Notes on Using the Battery Pack](#)
- [Controlling the Power State of Your VAIO Computer \(Sleep Mode/Shutdown\)](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Notes on Using the Battery Pack

Before using the battery pack, read the following precautions for correct use.

About the battery pack

- The supplied battery pack is designed specifically for your VAIO computer.
- For your safety, only use the supplied battery pack or an optional battery pack that is specified by Sony.
- For safety reasons, battery charging may be suspended at higher or lower temperatures.
- The battery pack is not fully charged at the time of delivery.
- While the battery pack is in use or being charged, heat builds up in the battery pack. This is normal and is not cause for concern.
- Do not use your VAIO computer without installing the battery pack as it may cause the computer to malfunction.

About battery discharge

After battery charge, the battery pack will gradually discharge over time even while not in use. If it is left unused for an extended period of time, the battery power may be depleted. It is recommended that you recharge the battery pack before use.

About battery life

Battery life varies depending on usage and settings.

About battery deterioration and replacement

- The battery pack is consumable. The capacity gradually declines through repeated cycles of recharging and discharging. As a result, the battery life becomes short even if it is fully charged and eventually the battery pack reaches the end of its life.
- If the battery pack quickly runs out of power after being fully charged or it has reached the end of its life, replace it with a new one.

When the battery pack is running out of power

If the battery pack runs out and your VAIO computer is not plugged in, power will be cut off and any data you are working on will be lost.

While your VAIO computer is running on battery power, save data frequently.

[Go to Page Top](#)

Related Topic

- [Notes on Using the Power Source](#)

[↑ Go to Page Top](#)

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User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Using the Antivirus App for Your VAIO Computer

Protect your VAIO computer against computer viruses by using the antivirus app. You can keep the antivirus app current with the latest updates by downloading and installing the updates from the website of the app publisher. To update the antivirus app, find the antivirus app installed on your VAIO computer from the following and follow these steps.

1. Make sure your VAIO computer is connected to the Internet.
2. Perform any of these operations according to the preinstalled antivirus app.
For Trend Micro:
Start **Trend Micro Titanium Maximum Security**.
For McAfee:
Start **McAfee Internet Security** or **McAfee Total Protection**.
For Kaspersky Internet Security:
Start **Kaspersky Internet Security**.
3. Follow the on-screen instructions.

Note

- The actual procedure may be different from the above depending on the version of the app installed on your VAIO computer. In such a case, follow the on-screen instructions.

Hint

- To start the antivirus app, see [Searching/Starting Apps, Settings, or Files](#).
- Refer to the help file included with your app for more information.

 [Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Notes on Using the Wi-Fi(R) (Wireless LAN) Function

Before using the Wi-Fi function, read the following precautions for correct use.

- In some countries or regions, using the Wi-Fi products may be restricted by the local regulations.
- Wi-Fi devices work on the 2.4 GHz band, which is used by a variety of devices. They use the technology to minimize radio interference from other devices that use the same band; however, radio interference may still slow communication speeds, reduce communication range, or cause communication failure.
- If both the BLUETOOTH function and the 2.4 GHz Wi-Fi function of your VAIO computer are enabled, interference may occur and cause slower communication speeds or other problems.
- To communicate via Wi-Fi while you are on the road, you may need to contract with a Wi-Fi connection service provider.
- If your VAIO computer is equipped with the IEEE 802.11a/b/g/n standard, outdoor use of the 5 GHz Wi-Fi function is prohibited by law.
- The communication speed and range may vary depending on the following conditions:
 - Distance between devices
 - Existence of obstacles between devices
 - Device configuration
 - Radio conditions
 - Ambient environment (including wall material, etc.)
 - Apps in use
 Communications may be cut off depending on radio conditions.
- The data transfer rate specified in the specification is the theoretical maximum, and may not reflect actual data transfer rate.
- Actual communication speed may not be as fast as the one displayed on your VAIO computer.
- The 2.4 GHz and 5 GHz Wi-Fi frequency bands are not communicable with one another.
- The data transfer rate of IEEE 802.11g and IEEE 802.11n (2.4 GHz) may be affected by interference when used with an IEEE 802.11b product. Also, IEEE 802.11g and IEEE 802.11n automatically lower the transfer rate to maintain compatibility with an IEEE 802.11b product. The transfer rate may be regained by changing the channel settings of your access point.
- To stop the Wi-Fi function abruptly, turn off your VAIO computer.
- The WLAN standard includes the encryption methods: Wired Equivalent Privacy (WEP), which is a security protocol, Wi-Fi Protected Access 2 (WPA2), and Wi-Fi Protected Access (WPA). Proposed jointly by the IEEE and Wi-Fi Alliance, both WPA2 and WPA are specifications of standards based on interoperable security enhancements that increase the level of data protection and access control for existing Wi-Fi networks. WPA is designed to be forward compatible with the

IEEE 802.11i specification. It utilizes the enhanced data encryption Temporal Key Integrity Protocol (TKIP) in addition to user authentication using 802.1X and Extensible Authentication Protocol (EAP). Data encryption protects the vulnerable wireless link between clients and access points. Besides that, there are other typical LAN security mechanisms to ensure privacy, such as: password protection, end-to-end encryption, virtual private networks, and authentication. WPA2, the second generation of WPA, provides stronger data protection and network access control and is also designed to secure all versions of 802.11 devices, including 802.11b, 802.11a, 802.11g, and 802.11n standards, multi-band and multi-mode. In addition, based on the ratified IEEE 802.11i standard, WPA2 provides government grade security by implementing the National Institute of Standards and Technology (NIST) FIPS 140-2 compliant AES encryption algorithm and 802.1X-based authentication. WPA2 is backward compatible with WPA.

[↑ Go to Page Top](#)

Related Topic

- [About the Wi-Fi\(R\) \(Wireless LAN\) Standards](#)
- [Starting Wi-Fi\(R\) \(Wireless LAN\) Communications](#)
- [Stopping Wi-Fi\(R\) \(Wireless LAN\) Communications](#)
- [Notes on Using the BLUETOOTH\(R\) Function](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Disabling the Wi-Fi(R) (Wireless LAN) Function

You can disable the Wi-Fi function by following these steps.

1. Open the charms and select the **Settings** charm. (See [Opening the Charms](#) to open the charms.)
2. Select **Change PC settings** in the lower right corner.
3. Select **Wireless** in the left pane of the **PC settings** screen.
4. Change the **Wi-Fi** setting under **Wireless devices** to **Off**.

Hint

- To enable the Wi-Fi function, turn off **Airplane mode** and change the **Wi-Fi** setting under **Wireless devices** to **On**.
- To disable all wireless functions, turn on **Airplane mode**.
- The wireless function(s) whose setting is on will be enabled when you turn off **Airplane mode**.
- Refer to **Windows Help and Support** ([Opening Windows Help and Support](#)) for more information on **Airplane mode**.

[Go to Page Top](#)

Related Topic

- [About the Wi-Fi\(R\) \(Wireless LAN\) Standards](#)
- [Starting Wi-Fi\(R\) \(Wireless LAN\) Communications](#)
- [Notes on Using the Wi-Fi\(R\) \(Wireless LAN\) Function](#)

[Go to Page Top](#)

[Back](#) | [Back to Top](#) [Print](#)

User Guide

How to Use

[Windows 8: The Basics](#)[Parts Description](#)[Setup](#)[Network / Internet](#)[Connections](#)[Settings](#)[Playback](#)[Backup / Recovery](#)[Security](#)[Other Operations](#)[Notifications](#)

Troubleshooting

List of Topics

About the Wi-Fi(R) (Wireless LAN) Standards

Wi-Fi allows your VAIO computer to connect to a network through a wireless connection.

Wi-Fi uses the following IEEE 802.11a/b/g/n standard, which specifies the type of technology used. Refer to the specifications to find out about the configuration of the computer.

IEEE 802.11a (Frequency band:5 GHz)

Exclusive to models compliant with the IEEE 802.11a/b/g/n standard.

IEEE 802.11b/g (Frequency band:2.4 GHz)

The IEEE 802.11g standard provides higher-speed communications than the IEEE 802.11b.

IEEE 802.11n (Frequency band:2.4 GHz/5 GHz)

For models compliant with the IEEE 802.11b/g/n standard, only 2.4 GHz band can be used.

[↑ Go to Page Top](#)

Related Topic

- [Starting Wi-Fi\(R\) \(Wireless LAN\) Communications](#)
- [Stopping Wi-Fi\(R\) \(Wireless LAN\) Communications](#)
- [Notes on Using the Wi-Fi\(R\) \(Wireless LAN\) Function](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Stopping Wi-Fi(R) (Wireless LAN) Communications

You can stop Wi-Fi communications by following these steps.

1. Open the charms and select the **Settings** charm. (See [Opening the Charms](#) to open the charms.)
2. Select (the network icon).
3. Select the desired access point and **Disconnect**.

Note

- Do not disable the Wi-Fi function while accessing remote documents, files, or resources, as it may result in data loss.

[Go to Page Top](#)

Related Topic

- [About the Wi-Fi\(R\) \(Wireless LAN\) Standards](#)
- [Starting Wi-Fi\(R\) \(Wireless LAN\) Communications](#)
- [Notes on Using the Wi-Fi\(R\) \(Wireless LAN\) Function](#)
- [Disabling the Wi-Fi\(R\) \(Wireless LAN\) Function](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

? Troubleshooting

☰ List of Topics

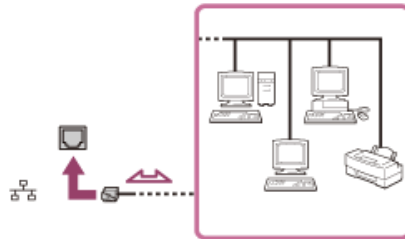
[Back](#) | [Back to Top](#)

 [Print](#)

Connecting to the Internet with a Wired Connection

Before using the Internet, you need to sign up with an Internet Service Provider (ISP) and set up devices required for connecting your VAIO computer to the Internet.

Connect one end of a LAN cable (not supplied) to the LAN port on your VAIO computer and the other end to your network.



Note

- For detailed information on devices required for Internet access and how to connect your VAIO computer to the Internet, ask your ISP.
- When connecting your VAIO computer to the Internet, be sure to use a cable with "Network" or "Ethernet" writing on it.
- Do not plug a telephone cable into the LAN port on your VAIO computer. If the LAN port is connected to the following networks or telephone lines, high electric current to the port may cause damage, overheating, or fire.
 - Any network, except 1000BASE-T/100BASE-TX/10BASE-T type networks
 - Public telephone subscriber line
 - Private branch exchange (PBX)
 - Home (intercom speakerphone) or business-use telephone lines (multi-line business telephone)

Hint

- To connect your VAIO computer to the Internet using the Wi-Fi(R) (Wireless LAN) function, you need to set up the Wi-Fi settings. See [Starting Wi-Fi\(R\) \(Wireless LAN\) Communications](#) for more information.

[↑ Go to Page Top](#)

Related Topic

- [About the Internet Connection Services](#)
- [About the Network \(LAN\)](#)
- [Starting Wi-Fi\(R\) \(Wireless LAN\) Communications](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

About the Internet Connection Services

The following types of Internet connection services are available.

You can select from among the services according to your preference, for example, communication speed or a usage fee. For detailed information on a variety of connection services, contact Internet Service Providers (ISPs).

- Fiber to the Home (FTTH)
- Cable modem
- Digital Subscriber Line (DSL)
- Satellite
- Dial-up

 [Go to Page Top](#)

Related Topic

- [Connecting to the Internet with a Wired Connection](#)
- [Starting Wi-Fi\(R\) \(Wireless LAN\) Communications](#)

 [Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

About the Network (LAN)

The network (LAN) enables you to connect your VAIO computer to the Internet and transfer data between the computer and other devices.

You can connect your VAIO computer to 1000BASE-T/100BASE-TX/10BASE-T type networks with a LAN cable (not supplied). Connect one end of a LAN cable to the LAN port on the computer and the other end to your network.

For information on peripheral devices required for LAN access, ask your Internet Service Provider (ISP) or refer to the manual that came with your modem.

For information on how to connect your VAIO computer to the network, refer to your ISP's instructions or the manual that came with the modem and other peripheral devices. If you require information on the network settings at your workplace, ask the network administrator.

 [Go to Page Top](#)

Related Topic

- [About the Internet Connection Services](#)
- [Starting Wi-Fi\(R\) \(Wireless LAN\) Communications](#)

 [Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)



About a Security Key for Wi-Fi(R) (Wireless LAN)

A security key is a security protocol for Wi-Fi that encrypts data transmitted on Wi-Fi. It is also referred to as an encryption key or a WEP (Wired Equivalent Privacy) key.

The security key allows wireless devices that have the same key, such as a Wi-Fi access point and a computer, to communicate with each other on Wi-Fi.

The security key is assigned to each access point by default. (Make sure the default security key has been changed to protect data from unauthorized use.) If you cannot find the default security key, refer to the manual that came with your access point.

If you enter a wrong security key, follow these steps to re-enter the security key.

1. Open the charms and select the  **Settings** charm. (See [Opening the Charms](#) to open the charms.)
2. Select  (the network icon).
3. Right-click the desired network and select **View connection properties**.
4. Select the **Security** tab.
5. Enter a security key in the **Network security key** field and select **OK**.

[Go to Page Top](#)

Related Topic

- [About the Wi-Fi\(R\) \(Wireless LAN\) Standards](#)
- [Starting Wi-Fi\(R\) \(Wireless LAN\) Communications](#)
- [Notes on Using the Wi-Fi\(R\) \(Wireless LAN\) Function](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Starting Wi-Fi(R) (Wireless LAN) Communications

You can establish Wi-Fi communications between your VAIO computer and an access point (not supplied).

Before using Wi-Fi, make sure a Wi-Fi access point is on and operating.

1. Connect an access point to your VAIO computer.
Refer to **Windows Help and Support** ([Opening Windows Help and Support](#)) and the manual that came with the access point for more information.
2. Open the charms and select the **Settings** charm. (See [Opening the Charms](#) to open the charms.)
3. Select **Change PC settings** in the lower right corner.
4. Select **Wireless** in the left pane of the **PC settings** screen.
5. Change **Airplane mode** to **Off** and the **Wi-Fi** setting under **Wireless devices** to **On**.
6. Open the charms and select the **Settings** charm. (See [Opening the Charms](#) to open the charms.)
7. Select (the network icon).
8. Select the desired access point and **Connect**.
After the connection is established, **Connected** appears in the selected wireless access point field.
If a security key entry window appears, enter the security key as required and select **OK**. See [About a Security Key for Wi-Fi\(R\) \(Wireless LAN\)](#) for more information.
Note that security keys are case-sensitive.

To check Wi-Fi connection status

Open the desktop and move the mouse pointer over (the Network icon) in the desktop notification area to check the Wi-Fi connection status, such as the access point currently connected to your VAIO computer.

To open the desktop, see [Opening the Desktop](#).

Note

- On IEEE 802.11a/b/g/n equipped models, when only the 2.4 GHz Wi-Fi function is enabled, your VAIO computer cannot connect to a 5 GHz Wi-Fi access point. Also, when only the 5 GHz Wi-Fi function is enabled, the computer cannot connect to a 2.4 GHz Wi-Fi access point.
On IEEE 802.11b/g/n equipped models, when the 2.4 GHz Wi-Fi function is disabled, the computer cannot connect to an access point. Also, the computer cannot connect to a 5 GHz Wi-Fi access point.
- It may take some time to find and connect to a Wi-Fi access point before starting communications via Wi-Fi.

Hint

- Refer to **Windows Help and Support** ([Opening Windows Help and Support](#)) for

more information on **Airplane mode**.

- Once you connect your VAIO computer to the access point by entering the security key, the access point will be registered in the computer. You do not have to enter the security key for subsequent connections.

[Go to Page Top](#)

Related Topic

- [About the Wi-Fi\(R\) \(Wireless LAN\) Standards](#)
- [Stopping Wi-Fi\(R\) \(Wireless LAN\) Communications](#)
- [Notes on Using the Wi-Fi\(R\) \(Wireless LAN\) Function](#)
- [About a Security Key for Wi-Fi\(R\) \(Wireless LAN\)](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

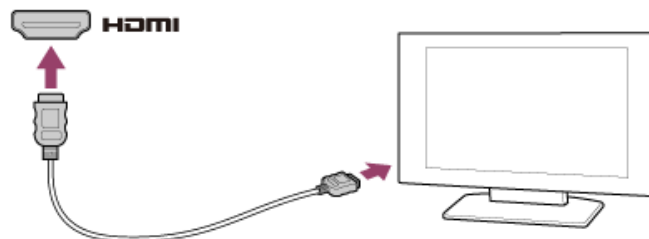
 [Print](#)

Connecting a TV with an HDMI Input Port

You can connect a TV with an HDMI input port to your VAIO computer with an HDMI cable (not supplied).

Refer to the manual that came with your TV for more information on installation and use.

1. Plug the power cord of your TV into an AC outlet and turn it on.
2. Connect one end of an HDMI cable to the **HDMI** output port ([Parts and Controls on the Sides](#)) on your VAIO computer and the other end to the TV.
3. Set the TV input to the external input.
The screen image of your VAIO computer is displayed on the TV.



Note

- If a device driver other than the one provided by Sony is used, the image will not be displayed and audio will not be heard. Always use the device driver provided by Sony for updates.
- To hear sound from a device connected to the **HDMI** output port, you need to change the sound output device. For detailed instructions, see [Changing the Sound Output Device](#).

Hint

- The **HDMI** output port on your VAIO computer is compliant with the High-bandwidth Digital Content Protection (HDCP) standard and capable of encrypting the transmission channel of digital video signals for the purpose of copyright protection, which enables you to view a wide variety of copyright protected and high-quality content.

[Go to Page Top](#)

Related Topic

- [Selecting Display Modes](#)
- [Using the Multiple Monitors Function](#)
- [Changing the Resolution \(Size\) of the Screen Image](#)
- [Changing the Resolution \(Size\) of the Screen Image on an HDMI-Connected Device](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Selecting Display Modes

You can switch the display output between the computer screen and an external display connected to your VAIO computer.

1. Turn on an external display.
2. Press the **Fn+F7** keys several times to select your desired display output, and then press the **Enter** key.

Note

- If you disconnect a display cable (not supplied) while only an external display is selected as the display output, it is hard to operate your VAIO computer because the computer screen is blank.
To switch the display output to the computer screen, press the **Fn+F7** keys twice, then the **Enter** key.
- The display switch may become unavailable or your VAIO computer may become unstable during video playback. Exit the video playback app before switching the display output.
- The display switch may not be available depending on the type of external display or projector.

[↑ Go to Page Top](#)

Related Topic

- [Using the Multiple Monitors Function](#)
- [Connecting a TV with an HDMI Input Port](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Using the Multiple Monitors Function

The Multiple Monitors function allows you to distribute portions of your desktop across separate displays.

For example, if you have an external display connected to the monitor port, the computer screen and the external display can function as a single desktop.

1. Right-click on the desktop and select **Screen resolution**. (See [Opening the Desktop](#) to open the desktop.)
2. Select **Extend these displays** from the drop-down list next to **Multiple Displays** and **OK**.

The setting options vary depending on the number of the connected external displays.

Note

- Your external display may not support the Multiple Monitors function.
- Certain apps may not be compatible with the Multiple Monitors settings.
- Do not change the display settings while using video/image apps or playing DVDs, as it may cause unsuccessful playback/display or unstable system operations. Change the display settings after you exit the video/image app.

Hint

- You can set the screen resolution for each display used for the Multiple Monitors function.

[Go to Page Top](#)

Related Topic

- [Changing the Resolution \(Size\) of the Screen Image](#)
- [Selecting Display Modes](#)
- [Connecting a TV with an HDMI Input Port](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Notes on the LCD screen

Read the following precautions for correct use of the LCD screen.

- The LCD screen is manufactured using high-precision technology. You may, however, see tiny black points and/or bright points (red, blue, or green) that continuously appear on the LCD screen. This is a normal result of the manufacturing process and does not indicate a malfunction.
- Do not scratch the surface of the LCD screen or exert pressure on it. This could cause damage.
- Do not exert pressure on the LCD screen lid with the lid closed as it may scratch the LCD screen or soil it.
- The LCD screen may become warm during operation. This is normal and does not indicate a malfunction.
- Due to the mechanical design of your VAIO computer's LCD screen/touch screen, the screen surface may become warm while you are using the computer for an extended period of time. This is normal and does not indicate a malfunction. (Touch screen equipped models)
- The LCD screen/touch screen is made of reinforced glass to implement high durability, however, treat the screen with care as it is not 100% unbreakable. In case the screen breaks into small pieces, be careful not to cut yourself on the pieces of broken glass. (Touch screen equipped models)
- Do not leave the LCD screen facing the sun. This could damage the LCD screen. Be sure to block direct sunlight when using your VAIO computer near a window.
- Do not exert pressure on the LCD screen or its edges when opening the LCD screen lid or lifting your VAIO computer. The LCD screen may be sensitive to pressure or added stress, and exerting pressure may damage the screen or cause it to malfunction. When opening the computer, hold the base with one hand and gently lift the LCD screen lid with the other. To carry the computer with the lid open, be sure to hold the computer with both hands.
- Using your VAIO computer in low temperature conditions may produce a residual image on the LCD screen. This does not indicate a malfunction. When the computer returns to normal temperature, the screen returns to normal.
- A residual image may appear on the LCD screen if the same image is displayed for an extended period of time. The residual image disappears after a while. You can use a screen saver to prevent residual images.

 [Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Changing the Resolution (Size) of the Screen Image on an HDMI-Connected Device

You can change the screen resolution or size of your VAIO computer's screen image displayed on an external display, such as a TV, connected to the computer with an HDMI cable (not supplied).

1. Connect your VAIO computer to an HDMI equipped TV with an HDMI cable. (See [Connecting a TV with an HDMI Input Port](#) for more information.)
2. Turn on the TV.
3. Start **VAIO Control Center** and select **Image Quality**. (See [Searching/Starting Apps, Settings, or Files](#) to start **VAIO Control Center**.)
4. Select **Details** in **External Display Resolution**.
5. On the **Select Resolution** tab, select the desired resolution. After a few seconds, the selected resolution is applied.
6. If the computer image does not fit the displayable region of the TV, select the **Adjust Resolution** tab to adjust the display size.

Note

- Some resolution options may not be available, depending on the model or the HDMI-connected device.
- The function to adjust the screen resolution may be disabled depending on the selected resolution.

[Go to Page Top](#)

Related Topic

- [Connecting a TV with an HDMI Input Port](#)
- [Selecting Display Modes](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

? Troubleshooting

☰ List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Connecting an External Microphone (Microphone jack equipped models)

You can connect an external microphone to your VAIO computer and enjoy voice chat, etc.

1. Plug the microphone cable into the microphone jack ([Parts and Controls on the Sides](#)).



Note

- If you connect or disconnect the microphone to/from your VAIO computer while running a voice recording app, voice recording may fail or the app may exit. Connect the microphone and select it as the sound recording device for Windows before starting the app.

Hint

- Use a plug-in-power microphone.
- Refer to the manual that came with your microphone.
- If microphone feedback occurs, move the microphone away from your speakers.

[↑ Go to Page Top](#)

Related Topic

- [Connecting External Speakers or Headphones](#)
- [Adjusting the Microphone Volume](#)

[↑ Go to Page Top](#)

[Back](#) | [Back to Top](#) [Print](#)

User Guide

How to Use

[Windows 8: The Basics](#)[Parts Description](#)[Setup](#)[Network / Internet](#)[Connections](#)[Settings](#)[Playback](#)[Backup / Recovery](#)[Security](#)[Other Operations](#)[Notifications](#)

Troubleshooting

List of Topics

Changing the Sound Output Device

If there is no sound coming from an external device connected to your VAIO computer, you need to change the device for sound output.

1. Open **Control Panel** and select **Hardware and Sound**. (See [Opening Control Panel](#) to open **Control Panel**.)
2. Select **Sound**.
3. Select the **Playback** tab.
4. Ensure there is a check mark next to the icon of the device you intend to output computer sound from.
If there is no check mark next to the icon, select it and **Set Default**.
5. Select **OK**.

To change the sound rate and bit depth

The sound rate and bit depth of the digital audio output signal should be set according to your digital audio device.

Follow the above steps 1 to 3, and then select the HDMI device or **OPTICAL OUT** (optical digital audio output) icon and **Properties**. On the **Advanced** tab, select the sample rate and bit depth (for example, 16 bit, 48000 Hz (DVD quality)) which the device supports, and then **OK**.

[↑ Go to Page Top](#)

Related Topic

- [Connecting External Speakers or Headphones](#)
- [Connecting a High-Quality Digital Sound Output Device between Your VAIO Computer and a TV](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Connecting a High-Quality Digital Sound Output Device between Your VAIO Computer and a TV

You can connect a high-quality home theater receiver or other surround sound decoder devices between your VAIO computer and a TV using an HDMI connection.

1. Make sure the HDMI connection has been set up between the TV and the home theater receiver or surround sound decoder device.
2. Change the device for sound output to the HDMI output. (See [Changing the Sound Output Device](#) for more information.)
3. Turn on the TV and set its input to the HDMI input.
4. Turn on the home theater receiver or surround sound decoder device and set its input to the HDMI input.
5. Plug one end of an HDMI cable to the HDMI input port on the home theater receiver or surround sound decoder device and the other end to the **HDMI** output port on your VAIO computer.

Hint

- You can adjust the screen resolution of the connected TV with your VAIO computer. See [Changing the Resolution \(Size\) of the Screen Image on an HDMI-Connected Device](#) for more information.
- With the HDMI connection, the volume can be adjusted by the connected audio device only. Your VAIO computer has no control over the output volume of any connected devices.

[Go to Page Top](#)

Related Topic

- [Changing the Sound Output Device](#)
- [Changing the Resolution \(Size\) of the Screen Image](#)
- [Connecting a TV with an HDMI Input Port](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

? Troubleshooting

☰ List of Topics

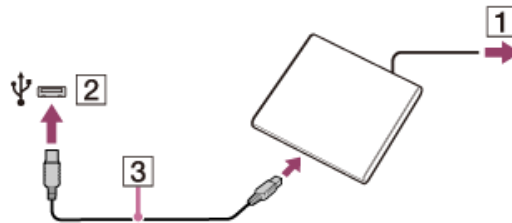
[Back](#) | [Back to Top](#)

[Print](#)

Connecting an External Drive

Connect an external disc drive or hard disk drive to a USB port on your VAIO computer.

1. Plug the power cord of your external drive into an AC outlet (**1**).
2. Plug one end of a USB cable (**3**) (not supplied) into the USB port (**2**), and the other end to the external drive.



See [Connecting a USB Device](#) for information on the USB connection.

Note

- Be sure to connect an external drive to a power source with an AC adapter (if supplied).

Hint

- You may need to install a driver depending on the external drive you use. In addition, procedures to connect and use an external drive vary depending on the drive you use. Refer to the manual that came with your external drive for more information.

[Go to Page Top](#)

Related Topic

- [Connecting a USB Device](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications


Troubleshooting

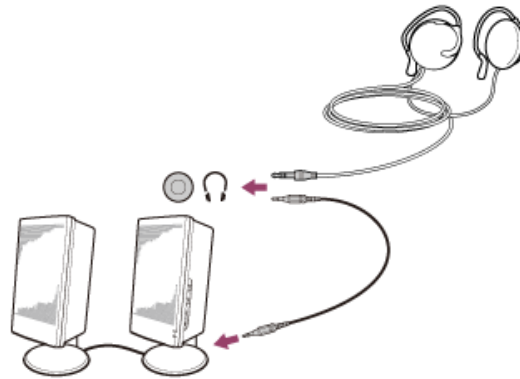
List of Topics



Connecting External Speakers or Headphones

You can connect external sound output devices (such as speakers or headphones) to your VAIO computer.

1. Connect external speakers or headphones to the headphone jack  ([Parts and Controls on the Sides](#)).



Note

- Turn down the volume of the speakers before turning them on.

Hint

- Refer to the manual that came with your speakers or headphones.

[Go to Page Top](#)

Related Topic

- [Adjusting the Speakers Volume](#)
- [Changing the Sound Output Device](#)
- [Adjusting the Volume in Windows](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Notes on Using the BLUETOOTH(R) Function

Before using the BLUETOOTH function, read the following precautions for correct use.

- In some countries or regions, using the BLUETOOTH function may be restricted by the local regulations.
- The BLUETOOTH function may not work with some devices, depending on the manufacturer or the app version employed by the manufacturer. Check the system requirements of the BLUETOOTH device before purchasing. For information on BLUETOOTH devices, visit the VAIO Support website. Some BLUETOOTH devices require authentication (pairing) before establishing connection with another device. Perform the authentication process before connecting to such devices.
- BLUETOOTH devices work on the 2.4 GHz band, which is used by a variety of devices. BLUETOOTH devices use the technology to minimize radio interference from other devices that use the same band; however, radio interference may still cause slower communication speeds, reduce communication range, or in some cases, cause communication failure.
- Communication speed and range may vary depending on the following conditions:
 - Distance between communication devices
 - Existence of obstacles between devices
 - Ambient environment that includes existence of walls and materials of such walls
 - Device configuration
 - Apps in use
 - Radio conditions
 Communications may be cut off depending on radio conditions.
- If your VAIO computer is compliant with BLUETOOTH high speed technology and you intend to use it for high-speed communications, enable both the wireless LAN and BLUETOOTH functions on the computer.
- Large files may occasionally be corrupted during continuous transfer due to limitations of the BLUETOOTH standard and electromagnetic interference in the environment.
- Connecting multiple BLUETOOTH devices to your VAIO computer may cause channel congestion, resulting in poor device performance. This is normal with BLUETOOTH technology and does not indicate a malfunction.
- Video and audio may not be synchronized if you play videos on your VAIO computer with audio output from a connected BLUETOOTH device. This is a frequent occurrence with BLUETOOTH technology and does not indicate a malfunction.
- All BLUETOOTH devices must be certified through the procedure stipulated by Bluetooth SIG to ensure that they are compliant with the BLUETOOTH standard. Even if the BLUETOOTH devices are compliant with the BLUETOOTH standard,

individual device performance, specifications, and operation procedures may vary. Data exchange may not be possible in all situations.

- Not all BLUETOOTH devices are guaranteed of compatibility with your VAIO computer.
- If you urgently need to disable the BLUETOOTH function, turn off your VAIO computer.

[↑ Go to Page Top](#)

Related Topic

- [About the BLUETOOTH\(R\) Function](#)
- [Communicating with Another BLUETOOTH\(R\) Device such as a Mouse](#)
- [Stopping BLUETOOTH\(R\) Communications](#)
- [About BLUETOOTH\(R\) Security](#)
- [Notes on Using the Wi-Fi\(R\) \(Wireless LAN\) Function](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

About BLUETOOTH(R) Security

The BLUETOOTH wireless technology has an authentication function, which allows you to control communication with other devices.

The authentication function helps you prevent unwanted anonymous BLUETOOTH devices from accessing your VAIO computer. The first time two BLUETOOTH devices communicate, a common passcode (a password required for authentication) should be identified to register both devices. Once a device is registered, there is no need to re-enter the passcode.

For details, open **Windows Help and Support** ([Opening Windows Help and Support](#)), and enter "BLUETOOTH" in the search box.

[Go to Page Top](#)

Related Topic

- [About the BLUETOOTH\(R\) Function](#)
- [Communicating with Another BLUETOOTH\(R\) Device such as a Mouse](#)
- [Stopping BLUETOOTH\(R\) Communications](#)
- [Notes on Using the BLUETOOTH\(R\) Function](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

? Troubleshooting

☰ List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Stopping BLUETOOTH(R) Communications

You can stop BLUETOOTH communications by following these steps.

1. Open the charms and select the **Settings** charm. (See [Opening the Charms](#) to open the charms.)
2. Select **Change PC settings** in the lower right corner.
3. Select **Wireless** in the left pane of the **PC settings** screen.
4. Change the **Bluetooth** setting under **Wireless devices** to **Off**.

[Go to Page Top](#)

Related Topic

- [About the BLUETOOTH\(R\) Function](#)
- [Communicating with Another BLUETOOTH\(R\) Device such as a Mouse](#)
- [Notes on Using the BLUETOOTH\(R\) Function](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Communicating with Another BLUETOOTH(R) Device such as a Mouse

You can connect BLUETOOTH devices to your VAIO computer.

For details on BLUETOOTH communication, see [About the BLUETOOTH\(R\) Function](#).

1. Open the charms and select the **Settings** charm. (See [Opening the Charms](#) to open the charms.)
2. Select **Change PC settings** in the lower right corner.
3. Select **Wireless** in the left pane of the **PC settings** screen.
4. Change **Airplane mode** to **Off** and the **Bluetooth** settings to **On**.
5. Select **Devices** in the left pane of the **PC settings** screen.
6. When connecting a BLUETOOTH mouse, turn it on and press the button to connect the mouse.
Refer to the manual that came with your BLUETOOTH device for the procedure to ready the device for connection.
7. Select **Add a device**.
Your VAIO computer searches for devices and displays a device list.
Follow the on-screen instructions to register your device.

Note

- Depending on the BLUETOOTH device, it may take some time for your VAIO computer to find the device.
If your device does not appear in the list, repeat the procedure to ready the device for connection (for example, pressing the button for connection).
- Depending on the BLUETOOTH device, the procedure to establish connection may vary. Refer to the manual that came with the device for the procedure.

Hint

- If your VAIO computer is compliant with BLUETOOTH high speed technology and you intend to use it for high-speed communications, change the **Wi-Fi** setting under **Wireless devices** to **On** in step 4.
- A window appears for passcode input if a BLUETOOTH device is requesting authentication to establish connection. Follow the on-screen instructions to share the passcode between the BLUETOOTH device and your VAIO computer. If you do not wish to connect, select the **Cancel** button in the window.
 - A passcode is a secret number that is entered by a user to use for the authentication process to allow two BLUETOOTH devices to communicate with each other. Enter the same alphanumeric string (case-sensitive) for both devices to allow them to communicate with each other. You can change the passcode every time you perform authentication, providing you enter the same passcode for both devices during the authentication process. For details on the passcode of a BLUETOOTH device, refer to the manual that came with the device. If no BLUETOOTH passcode is entered for a certain time, the connection process will be terminated for security. In this case, try again.
- For details on the operations, open **Windows Help and Support** ([Opening Windows Help and Support](#)), and enter "BLUETOOTH" in the search box.

Related Topic

- [About the BLUETOOTH\(R\) Function](#)
- [Stopping BLUETOOTH\(R\) Communications](#)
- [Notes on Using the BLUETOOTH\(R\) Function](#)
- [About BLUETOOTH\(R\) Security](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

About the BLUETOOTH(R) Function

You can establish wireless communications between your VAIO computer and other BLUETOOTH devices, such as another computer, a smartphone, a mobile phone, a headset, or a mouse.

You can transfer data between these devices without cables at a range of up to 33 feet / 10 meters in an open area.



One BLUETOOTH device can connect with up to seven devices via wireless network to exchange data.

When a device requires connection to another device, it sends out an inquiry to neighboring BLUETOOTH devices. If any device responds to the inquiry, the two devices can connect with each other.

[Go to Page Top](#)

Related Topic

- [Communicating with Another BLUETOOTH\(R\) Device such as a Mouse](#)
- [Stopping BLUETOOTH\(R\) Communications](#)
- [Notes on Using the BLUETOOTH\(R\) Function](#)
- [About BLUETOOTH\(R\) Security](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

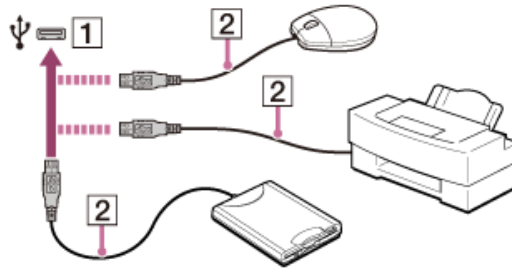
Connecting a USB Device

You can connect a Universal Serial Bus (USB) device such as a mouse, floppy disk drive, speaker or printer to your VAIO computer.

Installation of the device driver supplied with the USB device may be required when connecting.

Refer to the manual that came with the device for more information.

1. Choose the USB port (**1**) you prefer to use.
2. Plug the USB device cable (**2**) (not supplied) into the USB port.



Note

- You may need to install the driver supplied with your USB device before use. Refer to the manual that came with the USB device for more information.
- In order to print documents, be sure the USB printer is compatible with your version of Windows.
- Before disconnecting USB speakers from your VAIO computer, stop DVD or music playback or turn off the computer. If you disconnect the USB speakers during playback, it may cause a malfunction.
For information on how to remove a USB device, refer to the manual that came with the device.
- To protect your VAIO computer and/or USB devices from damage, observe the following:
 - When moving your VAIO computer with USB devices connected, avoid exposing the USB ports to shock or impact.
 - Do not put your VAIO computer in a bag or carrying case with USB devices connected.

Hint

- The USB ports on your VAIO computer are compliant with the USB 2.0 standard and/or USB 3.0 standard.
USB ports that are compliant with the USB 3.0 standard are identifiable by their blue color.
- In addition to the USB 2.0 standard transfer modes, the USB 3.0 standard specifies the following transfer mode:
 - SuperSpeed: Transfer rate of 5 Gbps.

[Go to Page Top](#)

Related Topic

- [Connecting an External Drive](#)
- [Charging a USB Device](#)

[↑ Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

? Troubleshooting

☰ List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Charging a USB Device

You can charge a USB device even while your VAIO computer is off, in Hibernate mode, or Sleep mode by enabling the USB charging settings.

Change the settings while the USB device is disconnected from the USB port that supports USB charging.

1. Start **VAIO Control Center** and select **Hardware**. (See [Searching/Starting Apps, Settings, or Files](#) to start **VAIO Control Center**.)
2. Enable the **USB Charging** setting.
3. Connect a USB device to the USB port with the ⚡ mark printed around it. If charging does not start even when you connect a USB device to the USB port that supports USB charging, disconnect and connect the device.

Note

- With the USB charging settings enabled, power consumption when your VAIO computer is off or in Hibernate mode or Sleep mode increases because the computer supplies power to the USB port even when a USB device is not connected to the port.
- When the USB charging settings are enabled, you cannot use the remote wake-up function on the USB device connected to the USB port that supports USB charging.

Hint

- The USB charging settings are disabled by default.

[↑ Go to Page Top](#)

[Back](#) | [Back to Top](#) [Print](#)

User Guide

How to Use

[Windows 8: The Basics](#)[Parts Description](#)[Setup](#)[Network / Internet](#)[Connections](#)[Settings](#)[Playback](#)[Backup / Recovery](#)[Security](#)[Other Operations](#)[Notifications](#)

Troubleshooting

List of Topics

About the ASSIST Button

Press the **ASSIST** button to perform regular maintenance of your VAIO computer or to solve problems you might encounter when using the computer.

While the computer is on, the **ASSIST** button starts **VAIO Care**.

While the computer is off, the **ASSIST** button displays the **VAIO Care (Rescue Mode)** screen.

VAIO Care (Rescue Mode): VAIO recovery solutions can be used to recover the computer in case of emergency, for example, when Windows does not start.

Note

- If the **VAIO Care (Rescue Mode)** screen is displayed and five minutes pass without any operation, your VAIO computer automatically turns off.

[Go to Page Top](#)

Related Topic

- [Keeping Your VAIO Computer in Optimum Condition \(VAIO Care\)](#)
- [Recovering from the Recovery Area](#)
- [Backing Up Your Data when You cannot Start Windows](#)
- [Restoring Your Data with VAIO Data Restore Tool](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Booting Your VAIO Computer from External Devices

You can boot your VAIO computer from external devices, such as an optical disc drive, a USB floppy disk drive, or a USB flash drive by using the BIOS function.

1. Connect an external device to your VAIO computer.
2. Press the **ASSIST** button while your VAIO computer is off.
The **VAIO Care (Rescue Mode)** screen appears.
3. Select **Start from media (USB device/optical disc)**.
The booting process from the external device starts.

Note

- Disconnect all devices from your VAIO computer except for the external device from which you intend to boot up. Some devices cannot be used to boot the computer, or cannot be used with the computer.
- If an AC adapter is supplied with the external device, be sure to connect it to an AC power source in advance.

 [Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)


Keeping Your VAIO Computer in Optimum Condition (VAIO Care)

With **VAIO Care**, you can perform the following operations to keep your VAIO computer running at an optimum level.

- Conduct regular performance checks and tune-ups.
- Find support information (the support website URL, the contact information phone number, etc.).
- Start **VAIO Care** just by pressing the **ASSIST** button and search for appropriate measures if you have any problem.

1. Press the **ASSIST** button while your VAIO computer is on.
VAIO Care starts.
Refer to the help file included with **VAIO Care** for more information.

Hint

- Pressing the **ASSIST** button while your VAIO computer is off displays the **VAIO Care (Rescue Mode)** screen. **VAIO Care (Rescue Mode): VAIO recovery solutions** can be used to recover the computer in case of emergency, for example, if Windows does not start.
- Alternatively, open the charms, select the  **Search** charm and **Apps**, and enter "VAIO Care (Desktop)" in the search box to start **VAIO Care**.
To open the charms, see [Opening the Charms](#).

 [Go to Page Top](#)

Related Topic

- [Recovering from the Recovery Area](#)
- [Backing Up Your Data when You cannot Start Windows](#)
- [Restoring Your Data with VAIO Data Restore Tool](#)

 [Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Updating Your VAIO Computer

Be sure to update your VAIO computer by installing the following apps to enhance its efficiency, security and functionality.

Note

- To perform the update settings below, your VAIO computer must be connected to the Internet.

Windows Update

Windows Update enables you to make your VAIO computer more stable.

- Open the charms and select the **Search** charm. (See [Opening the Charms](#) to open the charms.)
- Select **Settings** and enter "Windows" in the search box.
- Select **Windows Update** from the list and follow the on-screen instructions to complete the updates.

VAIO Update

VAIO Update automatically notifies you of new updates available on the Internet, and downloads and installs them on your VAIO computer.

- Start **VAIO Update** and follow the on-screen instructions. (See [Searching/Starting Apps, Settings, or Files](#) to start **VAIO Update**.)

To update Windows Store apps

Be sure to update the **Windows Store** app. If an update is required, a number will appear in the **Store** tile of the **Start** screen.

- Select the **Store** tile to open it.
- Select **Updates** in the upper right of the screen.
The number in the bracket shows the number of programs you can use.
- Set a check mark for the apps you want to update, then select **Install**.
To update the apps later, remove the check mark.

[Go to Page Top](#)

Related Topic

- [Using VAIO Update](#)
- [Installing Apps from Windows Store](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

? Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Using VAIO Update

VAIO Update provides a service that informs you of available update information, such as important notices or update programs, to keep your VAIO computer up to date.

Through the Internet, **VAIO Update** automatically detects the update programs that are necessary for enhancing your computer's performance or new apps that are available, and let you download and install with simple steps.

1. Start **VAIO Update** and follow the on-screen instructions. (See [Searching/Starting Apps, Settings, or Files](#) to start **VAIO Update**.)

Hint

- You can also start **VAIO Update** from **VAIO Care (Desktop)**.

[Go to Page Top](#)

Related Topic

- [Keeping Your VAIO Computer in Optimum Condition \(VAIO Care\)](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Viewing the System Information

You can view the system information of your VAIO computer.

For example, after installing a memory module, you can view the information to confirm system memory changes.

1. Start **VAIO Care (Desktop)**. (See [Searching/Starting Apps, Settings, or Files](#) to start **VAIO Care (Desktop)**.)
2. Select **About Your VAIO** and **System information**.
The system information of your VAIO computer is displayed.

 [Go to Page Top](#)

Related Topic

- [Notes on Adding and Removing Memory Modules](#)
- [Adding and Removing Memory Modules](#)
- [Keeping Your VAIO Computer in Optimum Condition \(VAIO Care\)](#)

 [Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Customizing Your VAIO Computer

VAIO Control Center allows you to access system information and to change settings of various kinds of functions such as display and sounds.

1. Start **VAIO Control Center**. (See [Searching/Starting Apps, Settings, or Files](#) to start **VAIO Control Center**.)
2. Select your desired item and change the settings.

Hint

- Some of the items will not be visible if you sign in as a user without administrative rights.

 [Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Selecting a Power Plan

Power management helps you set up power plans to suit your requirements for power consumption.

1. Open **Control Panel**. (See [Opening Control Panel](#).)
2. Select **Hardware and Sound** and **Power Options**.
3. Select your desired power plan.
4. If you want to change the power plan settings, select **Change plan settings** on the right of your desired power plan in the **Power Options** window. By selecting **Change advanced power settings**, you can change the advanced settings. Refer to **Windows Help and Support** ([Opening Windows Help and Support](#)) for more information on the power plan settings.

Hint

- The power status icon indicates what kind of power source your VAIO computer is currently using, and you can see the computer's power status by selecting this icon.

 [Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Notes on Sleep Mode

Read the following precautions before using Sleep mode.

- Some USB devices may not support Sleep mode. When your VAIO computer resumes from Sleep mode, the computer may not recognize such USB devices, depending on the type and number of connected USB devices.
If you cannot place the computer into Sleep mode, disconnect all USB devices and try again.
- If your VAIO computer enters Sleep mode when the computer is unstable, it may not resume from Sleep mode. The following operations are recommended:
 - Before placing your VAIO computer into Sleep mode, save your files and exit all running apps.
 - Shut down your VAIO computer periodically.
- Depending on the current state of Windows, your VAIO computer might not be able to enter Sleep mode.
- If your VAIO computer enters Sleep mode while running a task, such as DVD writing, the task may be suspended.
- Your VAIO computer may become warm during Sleep mode.

[Go to Page Top](#)

Related Topic

- [Using Sleep Mode](#)
- [Notes on Using the Power Source](#)
- [Notes on Using the Battery Pack](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Notes on Using the Power Source

Read the following precautions before using the power source.

- If you remove the battery pack while your VAIO computer is turned on or in Sleep mode, but the computer is disconnected from an AC power source, you may lose all unsaved data.

Notes on the AC adapter

- Use the AC adapter supplied with your VAIO computer or with genuine Sony products. Do not use any other AC adapter as it may cause a malfunction.
- Do not connect the AC adapter to a power conversion device such as a travel power converter. It may cause overheating or a malfunction.
- If the AC adapter cable becomes damaged or broken, do not use it.

Notes on turning on your VAIO computer

- Because your VAIO computer contains magnetic components, keep magnetic storage media away from the computer, as it may cause data corruption.
- Keep magnetic devices away from your VAIO computer.

[Go to Page Top](#)

Related Topic

- [Connecting a Power Source](#)
- [Turning On Your VAIO Computer](#)
- [Controlling the Power State of Your VAIO Computer \(Sleep Mode/Shutdown\)](#)
- [Restarting Your VAIO Computer](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Enlarging the Text Size (DPI) (Touch screen equipped models)

Changing the DPI to enlarge the text and icon size enables you to operate the touch screen easier.

1. Open **Control Panel** and select Appearance and Personalization and **Make text and other items larger or smaller**. (See [Opening Control Panel](#) to open **Control Panel**.)
2. Select the desired settings from the options on the screen and **Apply**.
3. If a message appears and recommends signing out, select **Sign out now**.
4. Sign in again.
The text font size for Windows changes.

 [Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Notes on Using the Touch Screen (Touch screen equipped models)

Before using the touch screen, read the following precautions for correct use.

- Do not push the touch screen roughly.
Gentle touches always work as your VAIO computer is equipped with a capacitive touch screen.
- Do not use an object other than your finger to use the touch screen.
The touch screen may be damaged or a malfunction may occur. Be sure to touch the screen only with your finger.
- The touch screen may not work properly if you turn on your VAIO computer while touching the screen. In such a case, restart the computer.
- The touch screen may not work for several seconds after your VAIO computer returns to Normal mode from Sleep mode. In such a case, wait for a while before using the touch screen.
- Keep the touch screen clean for good touch sensitivity. Dirt may cause damage or a malfunction.

 [Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

? Troubleshooting

List of Topics

Changing the Resolution (Size) of the Screen Image

You can change the screen resolution to adjust the size of the characters and images on the computer screen.

Refer to **Windows Help and Support** ([Opening Windows Help and Support](#)) for more information.

1. Right-click on the desktop and select **Screen resolution**. (See [Opening the Desktop](#) to open the desktop.)
2. Select the current screen resolution next to **Resolution** and move the slider to change the screen resolution.

Note

- You may not be able to play high-resolution videos depending on the amount of video memory on your VAIO computer. In such a case, lower the screen resolution.
- Do not change the display resolution while using video/image apps or playing DVDs, as it may cause unsuccessful playback/display or unstable system operations.

[Go to Page Top](#)

Related Topic

- [Connecting a TV with an HDMI Input Port](#)
- [Notes on the LCD screen](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

How to Use the Touch Screen (Touch screen equipped models)

You can tap the touch screen or make a simple motion with your fingers to operate your VAIO computer.

Basic operations

To click (tap)

Tap on the touch screen once with a finger. You can select a button, such as **OK** and **Cancel**, or an item in a menu by tapping it.

To double-click (double-tap)

Tap on the touch screen twice in quick succession with a finger.

You can start an app, such as a word processor or a spreadsheet program, or open a file by double-tapping its icon.

To drag

Put a finger on the desired point on the touch screen and slide the finger. You can move a file or change the window size with this motion.

To drag and drop

Touch the desired file icon, slide to another folder, window or app icon, and then lift your finger off the screen. You can move or copy a file with this motion.

Advanced operations

You can make a simple motion (gesture) with your fingers on the touch screen to operate your VAIO computer.

The response to a gesture varies depending on the apps.

To right-click (touch and hold)

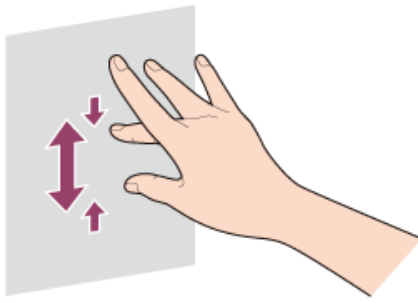
Touch and hold the desired point on the touch screen for a few seconds and lift your finger off the screen. Depending on the point you touch, you can display various menus.

To scroll

Touch and slide a scrollable area of a window, such as an **Internet Explorer** window. You can also drag the slider on the vertical scroll bar of the selected window to scroll the window.

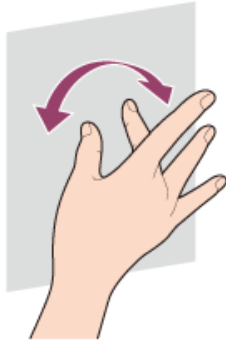
To zoom in or out on an image such as a photo (zoom)

Pinch on the touch screen with two fingers for zooming on an image, such as a photo on **Photos**. Pinch open to zoom in or pinch close to zoom out.



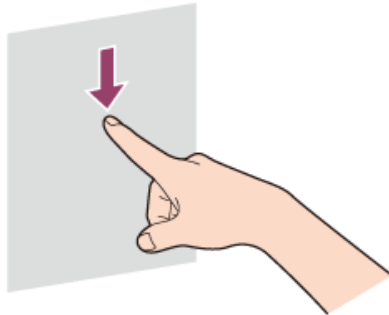
To rotate an image such as a photo (rotate)

Put two fingers on the touch screen and slide them in circles to rotate an image, such as a photo. You cannot rotate images depending on the apps you are using.



To select by swiping

Slide your finger in short distance in the direction that the screen does not scroll. You can select an item, such as an app tile or a picture.



[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

? Troubleshooting

☰ List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Changing the LCD Brightness

You can adjust the LCD brightness.

1. Press the **Fn+F5** keys or **Fn+F6** keys.
To decrease lighting intensity, keep pressing the **Fn+F5** keys. To increase lighting intensity, keep pressing the **Fn+F6** keys.

Hint

- The LCD brightness setting is retained even after your VAIO computer is turned off and restarted.

[↑ Go to Page Top](#)

Related Topic

- [Combinations and Functions with the Fn Key](#)

[↑ Go to Page Top](#)

[Back](#) | [Back to Top](#) [Print](#)

User Guide

How to Use

[Windows 8: The Basics](#)[Parts Description](#)[Setup](#)[Network / Internet](#)[Connections](#)[Settings](#)[Playback](#)[Backup / Recovery](#)[Security](#)[Other Operations](#)[Notifications](#)

Troubleshooting

List of Topics

Adjusting the Speakers Volume

You can change the volume level of the speakers and headphones.

To adjust the volume using the Fn key

Press the **F3** key while holding down the **Fn** key to turn down the volume. Press the **F4** key while holding down the **Fn** key to turn up the volume.

To turn off the volume using the Fn key

Press the **F2** key while holding down the **Fn** key to turn off the volume of the speakers and headphones.

Press the **Fn+F2** keys again to turn on the volume.

Alternatively, press the **Fn+F3** or **Fn+F4** keys to turn on the volume.

[Go to Page Top](#)

Related Topic

- [Adjusting the Volume in Windows](#)
- [Adjusting the Microphone Volume](#)
- [Connecting External Speakers or Headphones](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

? Troubleshooting




☰ List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Adjusting the Volume in Windows

You can adjust the volume on each device and app from **Control Panel**.

1. Open **Control Panel** and select **Hardware and Sound**. (See [Opening Control Panel](#) to open **Control Panel**.)
2. Select **Adjust system volume** under **Sound**.
3. Move the slider under **Device** or **Applications** up and down to your desired volume level.
When the volume is turned off (), select  (Deactivate muting) to turn on the volume (). When the volume is low, turn the volume up with the slider.

[↑ Go to Page Top](#)

Related Topic

- [Adjusting the Speakers Volume](#)
- [Adjusting the Microphone Volume](#)
- [Connecting External Speakers or Headphones](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Adjusting the Microphone Volume

You can adjust the volume level of the microphone.

1. Open **Control Panel** and select **Hardware and Sound**. (See [Opening Control Panel](#) to open **Control Panel**.)
2. Select **Sound**.
3. Select the **Recording** tab.
4. Double-click the microphone icon.
5. Select the **Levels** tab in the **Microphone Properties** window.
6. Move the slider under **Microphone** right and left to your desired volume level. If the microphone volume is still not loud enough even at the maximum volume level, move the slider under **Microphone Boost** right and left to adjust the volume level.
7. Select **OK**.

[Go to Page Top](#)

Related Topic

- [Adjusting the Speakers Volume](#)
- [Adjusting the Volume in Windows](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Playing Optimized Sound for Your VAIO Computer Using the ClearAudio+ Mode

The ClearAudio+ mode enables high quality sound that is optimized for your VAIO computer using digital signal processing technologies originally developed by Sony. With a simple operation, you can enjoy rich sound with clear highs and deep lows.

1. Start **VAIO Control Center** and select **Sound Quality**. (See [Searching/Starting Apps, Settings, or Files](#) to start **VAIO Control Center**.)
2. Select the audio mode in **Sound Effects**.
The optimized sound is reproduced when you select the ClearAudio+ mode that matches your audio source.

Hint

- You can also adjust the sound effects to suit your preferences in **Details** under **Sound Effects**.

[Go to Page Top](#)

Related Topic

- [Adjusting the Speakers Volume](#)
- [Adjusting the Volume in Windows](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Changing the Keyboard Backlight Settings (Keyboard backlight equipped models)

You can turn on and off the keyboard backlight by changing the keyboard backlight settings.

1. Start **VAIO Control Center** and select **Mouse and Keyboard**. (See [Searching/Starting Apps, Settings, or Files](#) to start **VAIO Control Center**.)
2. Change the keyboard backlight settings in **Keyboard Backlight**.
The settings window appears. Follow the on-screen instructions to change the settings.

 [Go to Page Top](#)

Related Topic

- [Parts and Controls on the Front](#)

 [Go to Page Top](#)

User Guide

How to Use

[Windows 8: The Basics](#)[Parts Description](#)[Setup](#)[Network / Internet](#)[Connections](#)[Settings](#)[Playback](#)[Backup / Recovery](#)[Security](#)[Other Operations](#)[Notifications](#)

Troubleshooting

List of Topics

Enabling/Disabling the Gesture Function

You can enable/disable the gesture function of the touch pad on your VAIO computer.

With the gesture function, you can perform the following operations.

- Scroll
- Back/Forward
- Zoom in/Zoom out
- Open the app menu
- Open the charms
- Switch apps

Follow these steps to enable/disable the gesture function.

1. Start **VAIO Control Center** and select **Mouse and Keyboard**. (See [Searching/Starting Apps, Settings, or Files](#) to start **VAIO Control Center**.)
2. Select **Details** under **Touchpad Operations**.
3. Select or clear the **Enable multi-touch functions** check box.
Select the check box to enable the function or clear it to disable the function.

[↑ Go to Page Top](#)

Related Topic

- [Using the Touch Pad](#)
- [Enabling/Disabling the Touch Pad](#)
- [Disabling the Tapping Function on the Touch Pad](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

? Troubleshooting

☰ List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Disabling the Tapping Function on the Touch Pad

You can disable the tapping function to avoid unintentional clicks caused by a light touch on the touch pad during the keyboard operations.

1. Start **VAIO Control Center** and select **Mouse and Keyboard**. (See [Searching/Starting Apps, Settings, or Files](#) to start **VAIO Control Center**.)
2. Select **Details** under **Touchpad Operations**.
3. Clear the **Enable tap functions** check box.
4. Select **OK**.

[↑ Go to Page Top](#)

Related Topic

- [Using the Touch Pad](#)
- [Enabling/Disabling the Touch Pad](#)
- [Enabling/Disabling the Gesture Function](#)

[↑ Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Enabling/Disabling the Touch Pad

You can enable/disable the touch pad on your VAIO computer.

1. Press and hold down the **Fn** key and press the **F1** key.
Each time you press the keys, the touch pad is enabled/disabled.

Hint

- Be sure to connect a mouse before disabling the touch pad. If you disable the touch pad before connecting a mouse, you will be able to use only the keyboard for pointing operations. (Non touch screen equipped models)

 [Go to Page Top](#)

Related Topic

- [Using the Touch Pad](#)
- [Disabling the Tapping Function on the Touch Pad](#)
- [Enabling/Disabling the Gesture Function](#)

 [Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

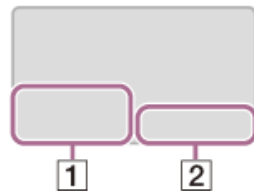
[Back](#) | [Back to Top](#)

[Print](#)

Using the Touch Pad

By sliding your finger on the touch pad, you can move the pointer on the computer screen.

With the pointer on your desired item or object, press the left button zone or the right button zone to execute various commands or display menus.



1 Left button zone

2 Right button zone

To click

With the pointer on your desired item or object, press the left button zone once. Alternatively, tap on the touch pad once.

To double-click

With the pointer on your desired item or object, press the left button zone twice quickly. Alternatively, tap on the touch pad twice quickly.

To right-click

With the pointer on your desired item or object, press the right button zone once. Alternatively, tap on the touch pad with two fingers. Depending on the location of the pointer, you can display various shortcut menus.

To drag

With the pointer on your desired item or object, press the left button zone once, and while holding down the zone, slide your finger on the touch pad. Alternatively, tap on the touch pad twice quickly, and on the second tap, slide your finger.

To drag and drop

Drag an icon, such as a file, to your desired location and release your finger from the left button zone. Alternatively, tap the icon twice quickly, and on the second tap, slide your finger to your desired location and lift the finger off the touch pad.

To scroll

Slide two fingers up and down on the touch pad to scroll vertically on the screen. Slide two fingers from side to side on the touch pad to scroll horizontally on the screen.

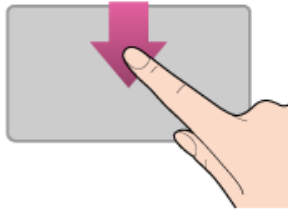
To back or forward without moving the pointer

While viewing websites, pictures, etc., put three fingers on the touch pad and slide them from side to side to perform the back/forward operation without moving the pointer.

To zoom in or out

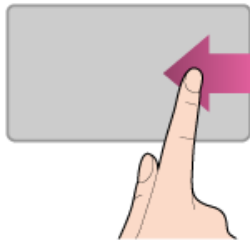
While viewing websites, pictures, etc., pinch on the touch pad with two fingers for zooming. Pinch open to zoom in or pinch close to zoom out.

To open the app menu



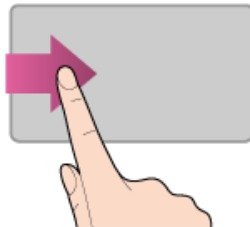
Put your finger on the top edge of the touch pad and slide the finger down. The app menu does not appear if an app does not support the app menu.

To open the charms



Put your finger on the right edge of the touch pad and slide the finger left. See [Opening the Charms](#) for more information.

To switch apps



Put your finger on the left edge of the touch pad and slide the finger right to switch to the running app. When more than one app is running, repeat this action to switch apps in descending order from the last-used app.

Note

- The gesture function (scroll, back/forward, zoom in/zoom out, open the app menu, open the charms, switch apps) may not work depending on the operating condition of your VAIO computer or the touch pad settings.

Hint

- The shape of the touch pad varies depending on the model you purchased.
- For detailed information on how to use the touch pad, start **VAIO Control Center**, click **Mouse and Keyboard**, and follow the instruction movies. To start **VAIO Control Center**, see [Searching/Starting Apps](#), [Settings](#), or [Files](#).



Related Topic

- [Enabling/Disabling the Touch Pad](#)
- [Disabling the Tapping Function on the Touch Pad](#)
- [Enabling/Disabling the Gesture Function](#)

 [Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

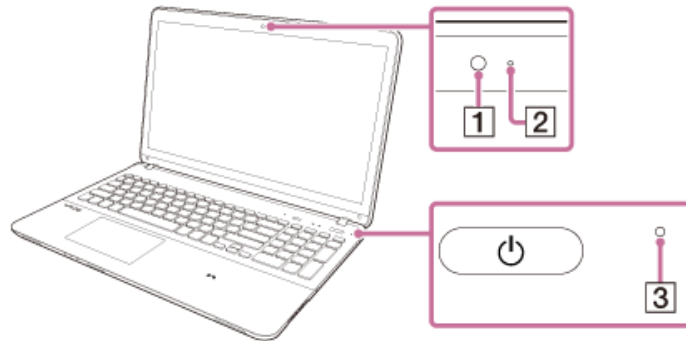
Troubleshooting

List of Topics

Using the Built-in Camera (Built-in camera equipped models)

You can make a video call through the Internet using the built-in camera and communication apps.

The built-in camera indicator light is on while the built-in camera is in use.



- 1** Built-in camera*
- 2** Built-in camera indicator
- 3** Built-in microphone (monaural)

* The shape of the built-in camera depends on the model.

Hint

- The apps installed on your VAIO computer vary depending on the computer's configurations.
- Some apps may not support the maximum resolution of the built-in camera.

[Go to Page Top](#)

Related Topic

- [Notes on the Built-in Camera \(Built-in camera equipped models\)](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Setting/Changing the Power-on Password

You can set a password (power-on password) for booting up your VAIO computer, using the BIOS function. Entry of the power-on password will be prompted after the VAIO logo appears to start the computer.

There are two types of passwords. Set the machine password first.

- **Machine password (for administrators):**
Allows users with administrative rights to change all the setup options in the BIOS setup screen, as well as to start your VAIO computer.
- **User password (for users without administrative rights):**
Allows standard users to change some of the BIOS setup options, as well as to start your VAIO computer. To set the user password, you must first set the machine password.

1. Press the **ASSIST** button while your VAIO computer is off.
The **VAIO Care (Rescue Mode)** screen appears.
2. Select **Start BIOS setup**.
Enter a password if it has already been set.
The BIOS setup screen appears.
3. Press the **←** or **→** key to select the **Security** tab, select **Set Machine Password** or **Set User Password**, and then press the **Enter** key.
The password entry screen appears.
4. Enter the password and press the **Enter** key.
To change the password, enter the current password and a new password. The password can be set up to 32 alphanumeric characters long (including spaces) and it is case-sensitive.
5. Press the **↑** or **↓** key to select **Password when Power On**, press the **Enter** key, and select **Enabled**.
6. Press the **←** or **→** key to select the **Exit** tab, select **Exit Setup**, and then press the **Enter** key.
7. At the confirmation prompt, press the **Enter** key.

Note

- Be sure to write down the password to avoid forgetting it.
- If you forget the password, you cannot boot up your VAIO computer.
- You can reset the user password at the BIOS setup screen by entering the machine password.
- If you forget the machine password, the password must be reset by authorized Sony service/support center. (The reset fee will be charged.)

[Go to Page Top](#)

Related Topic

- [Removing the Power-on Password](#)
- [Creating/Changing/Removing Your Windows Password](#)
- [What should I do if I forget the power-on password to start my VAIO computer?](#)

[↑ Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics


[Back](#) | [Back to Top](#)

 [Print](#)

Creating/Changing/Removing Your Windows Password

Setting a Windows password allows you to protect your VAIO computer from unauthorized access by requiring password entry when the computer is turned on or returns from power saving mode to Normal mode.

Refer to **Windows Help and Support** ([Opening Windows Help and Support](#)) for more information on the Windows password.

1. Open the charms and select the  **Settings** charm. (See [Opening the Charms](#) to open the charms.)
2. Select **Change PC settings** in the lower right corner.
3. Select **Users** in the left pane of the **PC settings** screen.
4. Select **Create a password** or **Change your password**.
5. Follow the on-screen instructions to enter your password.

Note

- Do not forget your password. Write down the password and keep it in a secure place.

Hint

- You can enter a hint in order to recall your password if you forget it. You can also create a password reset disc that can be used to create a new password. Refer to **Windows Help and Support** ([Opening Windows Help and Support](#)) for more information on the Windows password.

[Go to Page Top](#)

Related Topic

- [Setting/Changing the Power-on Password](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Removing the Power-on Password

If power-on password input for booting up your VAIO computer is no longer necessary, follow these steps to remove the machine password and user password.

1. Press the **ASSIST** button while your VAIO computer is off.
The **VAIO Care (Rescue Mode)** screen appears.
2. Select **Start BIOS setup**.
Enter a password if it has already been set.
The BIOS setup screen appears.
3. Press the **←** or **→** key to select the **Security** tab, select **Set Machine Password** or **Set User Password**, and then press the **Enter** key.
The password entry screen appears.
4. Leave the **Enter New Password** and **Confirm New Password** fields blank and press the **Enter** key.
5. Press the **←** or **→** key to select the **Exit** tab, select **Exit Setup**, and then press the **Enter** key.
At the confirmation prompt, press the **Enter** key.

[↑ Go to Page Top](#)

Related Topic

- [Setting/Changing the Power-on Password](#)
- [What should I do if I forget the power-on password to start my VAIO computer?](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

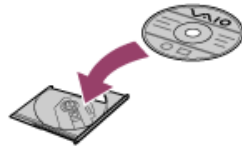
[Back](#) | [Back to Top](#)

[Print](#)

Inserting/Removing a Disc (Optical disc drive equipped models)

Insert/remove a disc to/from your VAIO computer that is turned on.

1. Press the drive eject button.
The drive tray slides out.
2. Insert/remove a disc to/from your VAIO computer.
When you insert a disc:
Hold the bottom of the drive tray with one hand, place a disc in the middle of the drive tray, and gently push it down until the disc clicks into place. If the disc is not properly placed when you close the drive tray, it may become unable to open.



Place the disc with the label side facing upward.

3. Close the drive tray by pushing it in gently.

Note

- Do not exert pressure on the drive tray when placing a disc.

[Go to Page Top](#)

Related Topic

- [Supported Discs \(Optical disc drive equipped models\)](#)
- [About Region Codes \(Optical disc drive equipped models\)](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

About Region Codes (Optical disc drive equipped models)

The following is a list of DVD region codes indicating playable regions of DVD media.

You can check the region codes of DVD media sold in the following countries or regions.

1. USA, Canada
2. Europe, Middle East, South Africa, Japan
3. Southeast Asia, Taiwan, South Korea, Hong Kong
4. Central America, South America, Mexico, Australia, New Zealand
5. North Africa, Asia, Russia, Ukraine, Belarus, India
6. China
7. Reserved for future use
8. International aircraft, international cruise ship, international conference hall, etc.

Region code indicators are labeled on the discs or packages to indicate in which region and on what type of player you can play the disc. If the region code indicates "all," you can play this disc in most regions of the world. If the region code for your residence area is different from the label, you cannot play the disc on your VAIO computer.

[Go to Page Top](#)

Related Topic
<ul style="list-style-type: none"> • Supported Discs (Optical disc drive equipped models)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Supported Discs (Optical disc drive equipped models)

This topic explains media types that are playable/recordable on your VAIO computer.

The installed optical disc drive varies depending on the model you purchased. Check the specifications before use.

For DVD SuperMulti Drive equipped models

The optical disc drive supports playback and/or recording of the following media.

Playback and recording

- CD-R/RW*1
- DVD-R/RW
- DVD+R/RW
- DVD+R DL (Double Layer)
- DVD-R DL (Dual Layer)
- DVD-RAM*2*3

Playback only

- CD-ROM
- DVD-ROM

For Blu-ray Disc(TM) Drive with DVD SuperMulti equipped models

The optical disc drive supports playback and/or recording of the following media.

Playback and recording

- CD-R/RW*1
- DVD-R/RW
- DVD+R/RW
- DVD+R DL (Double Layer)
- DVD-R DL (Dual Layer)
- DVD-RAM*2*3
- BD-R SL (Single Layer)/DL (Dual Layer), BD-RE SL/DL*4
- BD-R TL (Triple Layer), BD-RE TL*5

Playback only

- CD-ROM
- DVD-ROM
- BD-ROM

For Blu-ray Disc(TM) ROM Drive with DVD SuperMulti equipped

models

The optical disc drive supports playback and/or recording of the following media.

Playback and recording

- CD-R/RW*1
- DVD-R/RW
- DVD+R/RW
- DVD+R DL (Double Layer)
- DVD-R DL (Dual Layer)
- DVD-RAM*2*3

Playback only

- CD-ROM
- DVD-ROM
- BD-R SL (Single Layer)/DL (Dual Layer), BD-RE SL/DL*4
- BD-ROM

*1 Writing data to Ultra Speed CD-RW media is not supported.

*2 The optical disc drive does not support the DVD-RAM cartridge. Use non-cartridge discs or discs with a removable cartridge.

*3 Writing data to single-sided DVD-RAM media (2.6 GB) compliant with DVD-RAM Version 1.0 is not supported. DVD-RAM Version 2.2/12X-SPEED DVD-RAM Revision 5.0 media are not supported.

*4 BD-RE Disc media in Version 1.0 format and Blu-ray Disc media with a cartridge are not supported.

*5 Available when the optical disc drive supports BDXL(TM) media. Some apps may not support playback and/or recording of BD-R TL/BD-RE TL media, and the preinstalled apps vary depending on the model you purchased. Refer to the help files included with the apps for more information. Other players may not support playback of BD R TL/BD-RE TL media on which you recorded data with your VAIO computer. Make sure your player supports BD R TL/BD-RE TL media.

Note

- Your optical disc drive may not support writing or playback of some types of media.
- Your optical disc drive does not support 8 cm disc writing.
- Your optical disc drive supports only circular discs. Do not use discs in any other shape (star, heart, card, etc.) or damaged discs, as it may cause your VAIO computer to malfunction.
- DVD-Video format data can be written to DVD+R (single layer or dual layer), DVD+RW/DVD-R (single layer or dual layer), and DVD-RW media. DVD-Video Recording format data can be written to DVD-R (single layer or dual layer), DVD-RW, and DVD-RAM media. Writable media differ depending on the disc burning app you use. Refer to the help file included with the app for more information.
- It is recommended that you use Sony branded media: DVD+R, DVD+RW, DVD-R, DVD-RW, CD-R, CD-RW, BD-R, or BD-RE.
- You cannot write data to DVD-RW media (6x writing) unless your optical disc drive supports at least 6x writing for DVD-RW media.
- You cannot write data to DVD+RW media (8x writing) unless your optical disc drive supports at least 8x writing for DVD+RW media.
- Your VAIO computer is designed to playback discs that conform to the Compact Disc (CD) standard. DualDiscs and some music discs encoded with copyright protection technologies do not conform to the CD standard. Therefore, these discs may not be compatible with the computer.
- When you buy pre-recorded or blank discs for use with your VAIO computer, be sure

to read the notices on the disc package carefully to check both playback and recording compatibility with your computer's optical disc drives. Sony does NOT guarantee the compatibility of VAIO optical disc drives with discs that are not compliant with the official "CD," "DVD," or "Blu-ray Disc" standard. USING NON-COMPLIANT DISCS CAN CAUSE FATAL DAMAGE TO YOUR VAIO COMPUTER OR CREATE APP CONFLICTS AND CAUSE SYSTEM HANGING.

For inquiries about disc formats, contact the individual publisher of the pre-recorded disc or the manufacturer of the recordable disc.

- Your VAIO computer needs to be connected to the Internet to play DVD-RW, DVD-RAM, and DVD-R (single layer or dual layer) media that are compliant with the Content Protection for Recordable Media (CPRM) standard.
- To record, edit, or play copyright protected content, Blu-ray Disc media employs the Advanced Access Content System (AACs) technology. To use Blu-ray Disc media continually, you need to update the AACs key.
- You can update the AACs key through the Internet. Follow a message displayed on a recording, editing, or playback app you are using. Without updating the AACs key, you may become unable to record, edit, or play copyright protected content. To record, edit, or play content without copyright protection, you do not need to update the AACs key. You can update the AACs key for the Blu-ray Disc recording or playback app installed on your VAIO computer for five years after purchase. After that, we will inform you about the update on the support website.
- Region settings are required for some contents of DVD and BD-ROM Disc media. If the region setting on the optical disc drive does not match the region code on the disc, playback is not possible.
- Unless your external display is compliant with the High-bandwidth Digital Content Protection (HDCP) standard, you cannot play or view the contents of copyright protected Blu-ray Disc media through an HDMI connection.
- Some Blu-ray Disc content may restrict video output to standard definition or prohibit analog video output.

[↑ Go to Page Top](#)

Related Topic

- [About Region Codes \(Optical disc drive equipped models\)](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Removing Recovery Content to Free up Disk Space

Your built-in storage device contains the recovery area where the data for system recovery is stored. If your VAIO computer includes a solid state drive (SSD), you might want to minimize the recovery area by removing such data to free up disk space on the C: drive (or the last drive in your drive list, for example D: drive). You need Recovery Media to remove the data for system recovery or to recover the computer after you remove the data.

Note that removing recovery content makes it impossible to use the refresh function.

1. Create Recovery Media if you have not yet created it.
See [Creating Recovery Media](#) for more information on how to create Recovery Media.
2. Insert the Recovery Media into the optical disc drive or connect a USB flash drive (not supplied) to the USB port on your VAIO computer while the computer is in Normal mode.
3. Turn off your VAIO computer.
4. Press the **ASSIST** button to display the **VAIO Care (Rescue Mode)** screen and select **Start from media (USB device/optical disc)**.
Follow the on-screen instructions until the **Choose an option** screen appears.
5. Select **Troubleshoot** and **VAIO recovery solutions**.
Follow the on-screen instructions until the **VAIO Care (Rescue Mode): VAIO recovery solutions** screen appears.
6. Select **Tools** and **Remove recovery partition**.
7. Follow the on-screen instructions.

[Go to Page Top](#)

Related Topic

- [Creating Other Drives \(Modifying Partitions\)](#)
- [Creating Partitions](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Recovering from Recovery Media

If the recovery area data has been corrupted or erased, you can use Recovery Media to recover your VAIO computer.

However, recovering the computer using the Recovery Media will take longer than using the recovery area.

1. Insert Recovery Media (optical discs) into the optical disc drive or connect a USB flash drive to the USB port on your VAIO computer while the computer is in Normal mode.
2. Turn off your VAIO computer.
3. Press the **ASSIST** button to display the **VAIO Care (Rescue Mode)** screen and select **Start from media (USB device/optical disc)**.
Follow the on-screen instructions until the **Choose an option** screen appears.
4. Select **Troubleshoot** and **VAIO recovery solutions**.
Follow the on-screen instructions until the **VAIO Care (Rescue Mode): VAIO recovery solutions** screen appears.
5. Select **Start recovery wizard**.
6. Follow the on-screen instructions.

Hint

- If the display language selection window appears, select your desired language, then **OK**.
- To perform custom recovery, select **Tools** and **Start advanced recovery wizard**.
- If you cannot recover your VAIO computer using the USB flash drive, connect the drive to another USB port on the computer, and then try recovering the computer again.

[Go to Page Top](#)

Related Topic

- [About Recovery](#)
- [Creating Recovery Media](#)
- [Recovering from the Recovery Area](#)
- [Notes on Recovery](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

Creating Recovery Media

Follow the instructions below to create Recovery Media.

You can use DVDs, Blu-ray Disc, or a USB flash drive as Recovery Media.

- On the model without a built-in optical disc drive:
Use a USB flash drive.
- On the model with a built-in optical disc drive:
It is recommended that you use DVD-R media, because data can be accidentally deleted from a USB flash drive. You can also use BD-R/BD-R DL/DVD-R DL/DVD+R/DVD+R DL media; however, the type of media your VAIO computer supports and the number of discs you need vary depending on the model you purchased. You will be notified of such information during the creation process.

Note

- USB ports that are compliant with the USB 3.0 standard do not support recovery with a USB flash drive that is compliant with the USB 3.0 standard. On models without the USB ports that are compliant with only the USB 2.0 standard, be sure to create Recovery Media using the USB flash drive that is not compliant with the USB 3.0 standard.

1. Connect your VAIO computer to the Internet and download and install the latest updates using VAIO Update.
2. Press the **ASSIST** button while your VAIO computer is on to start **VAIO Care**. If the **User Account Control** window appears, select **Yes**. The **VAIO Care** window appears.
3. Select **Advanced Tools, Restore and recovery, and Create Recovery Media**.
4. Read the on-screen instructions carefully, and then select **Next**.
5. Follow the on-screen instructions.

Note

- It may take some time for the current status of the process to display.
- Do not eject or disconnect the media while creating Recovery Media, as doing so may result in a failure.
- Keep Recovery Media in a secure place.

Hint

- If you are signed in to your VAIO computer as a standard user, you may be prompted to enter an administrator name and a password.

Notes on creating Recovery Media

- Recovery Media is specific to your VAIO computer of which it was created.
- You cannot refresh your VAIO computer using Recovery Media.
- Create Recovery Media immediately after your VAIO computer is ready for use.

In the following cases, you may not be able to recover the computer from the recovery area and Recovery Media will be necessary:

- You have modified the recovery area with apps designed for data modification.
 - You have installed an operating system different from the preinstalled operating system on the computer.
 - You have formatted your built-in storage device without using **VAIO Care (Rescue Mode): VAIO recovery solutions**.
- Do not touch or allow the surface of the discs to become dirty. Fingerprints or dust on the surface may cause read/write errors.
 - To create Recovery Media, you may need to use the free space on your C: drive more than double capacity of media you use. Depending on your model, you cannot create Recovery Media even at the time of purchase due to the shortage of free space, regardless if the optical disc drive supports Blu-ray Disc or Double/Dual Layer DVD media.
 - Refer to the help file included with **VAIO Care** before using a USB flash drive as Recovery Media.

[↑ Go to Page Top](#)

Related Topic

- [About Recovery](#)
- [Recovering from the Recovery Area](#)
- [Recovering from Recovery Media](#)
- [Notes on Recovery](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics


[Back](#) | [Back to Top](#)

 [Print](#)

Checking the Volume of the Recovery Area

Your built-in storage device contains the recovery area where the data for the system recovery is stored.

To check the volume of the recovery area, follow these steps:

1. Open the charms and select the  **Search** charm. (See [Opening the Charms](#) to open the charms.)
2. Select **Apps** and enter "Computer" in the search box.
3. Select **Computer**.
4. Select **Computer** on the menu bar and **Manage**.
5. Select **Disk Management** under **Storage** in the left pane.
The volume of the recovery area and the total volume of the C: drive are displayed in the **Disk 0** row in the center pane.

 [Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Notes on Recovery

Read the following notes thoroughly before recovering your VAIO computer.

Important notes on recovery

- Recovering your VAIO computer will delete all the data on the built-in storage device and restore all the settings to the original factory settings. Make sure you have a backup copy of your valuable data.
If you want to retain the main settings and personal data, refresh the computer. See [Refreshing Your VAIO Computer](#) for more information.
- Disconnect all peripherals from your VAIO computer except the power cord, the AC adapter, or devices required for recovery before recovering the computer.
- Keep the power cord or the AC adapter connected to your VAIO computer during the recovery process.
- Do not stop the recovery process until the process is complete.
- If you have forgotten the password and cannot start the recovery process, contact an authorized Sony service/support center to reset it. A reset fee will be charged.

Notes on apps

- Recovering your VAIO computer can restore only the preinstalled apps. The app(s) that has been installed on your own or the data you have created since purchase cannot be restored. In addition, you cannot restore only Windows.
- Certain preinstalled apps include options that allow the apps to uninstall or install themselves. However, the apps may not work properly on your VAIO computer if such options are used.
- Installing apps to modify partition sizes may disable recovery or Recovery Media creation. To avoid this, create the Recovery Media immediately after your VAIO computer is ready for use. See [Creating Recovery Media](#) for more information.

[Go to Page Top](#)

Related Topic

- [About Recovery](#)
- [Creating Recovery Media](#)
- [Recovering from the Recovery Area](#)
- [Recovering from Recovery Media](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

About Recovery

Recovery is the process of restoring the built-in storage device back to its original factory condition. Refresh is the process of reinstalling the operating system with the main settings and personal data retained.

Refresh your VAIO computer first if the computer becomes unstable. If the problem persists, recover the computer.

There are two ways to recover the computer:

- From Recovery Media
- From the recovery area

When do I have to perform recovery or refresh?

- If your VAIO computer has become unstable
- If your VAIO computer has been infected with a computer virus
- If your VAIO computer is experiencing problems which cannot be solved through troubleshooting
- If you have formatted the C: drive by mistake

Which apps should I use to recover or refresh my VAIO computer or create Recovery Media?

Use the following apps.

VAIO Care

- Creating Recovery Media
- Checking your computer hardware

VAIO Care (Rescue Mode): VAIO recovery solutions

- Recovering your VAIO computer
- Rescuing (backing up) your data
- Erasing all the data on your built-in storage device

Windows Recovery Environment (Windows RE)

- Refresh

Hint

- Refer to the help file included with **VAIO Care** and **VAIO Care (Rescue Mode): VAIO recovery solutions** for more information.
- You can also recover your VAIO computer from Windows Recovery Environment (Windows RE).

What is a recovery area?

The recovery area on the built-in storage device contains data for system and app

recovery. Typically, you cannot modify or delete data in this area, however, there are commercially available apps designed for this purpose.

Why do I have to create Recovery Media?

Recovery Media are used to restore your VAIO computer back to its original factory condition. If Windows does not start and you have deleted the recovery area, you will need the Recovery Media to perform recovery.

Create the Recovery Media immediately after the computer is ready for use.

[↑ Go to Page Top](#)

Related Topic

- [Creating Recovery Media](#)
- [Refreshing Your VAIO Computer](#)
- [Recovering from the Recovery Area](#)
- [Recovering from Recovery Media](#)
- [Notes on Recovery](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Recovering from the Recovery Area

You can recover your VAIO computer from the recovery area on the built-in storage device. This recovery method is faster than using Recovery Media. See [Notes on Recovery](#) before recovering the computer.

1. Press the **ASSIST** button while your VAIO computer is off.
The **VAIO Care (Rescue Mode)** screen appears.
2. Select **Start troubleshooting (recovery)**.
Follow the on-screen instructions until the **Choose an option** screen appears.
3. Select **Troubleshoot** and **VAIO recovery solutions**.
Follow the on-screen instructions until the **VAIO Care (Rescue Mode): VAIO recovery solutions** screen appears.
4. Select **Start recovery wizard**.
5. Follow the on-screen instructions.

Hint

- If the display language selection window appears, select your desired language, then **OK**.
- To perform custom recovery, select **Tools** and **Start advanced recovery wizard**.

[Go to Page Top](#)

Related Topic

- [About Recovery](#)
- [Creating Recovery Media](#)
- [Recovering from Recovery Media](#)
- [Notes on Recovery](#)

[Go to Page Top](#)

[Back](#) | [Back to Top](#)

User Guide

How to Use

[Windows 8: The Basics](#)[Parts Description](#)[Setup](#)[Network / Internet](#)[Connections](#)[Settings](#)[Playback](#)[Backup / Recovery](#)[Security](#)[Other Operations](#)[Notifications](#)

Troubleshooting

List of Topics

Refreshing Your VAIO Computer

If your VAIO computer has become unstable, it is recommended that you use the refresh function provided by Windows. Refresh the computer by following these steps.

1. Press the **ASSIST** button while your VAIO computer is off.
The **VAIO Care (Rescue Mode)** screen appears.
2. Select **Start troubleshooting (recovery)**.
Follow the on-screen instructions until the **Choose an option** screen appears.
3. Select **Troubleshoot** and **Refresh your PC**.

Most user data saved on your built-in storage device, some Windows settings and all apps downloaded from **Windows Store** will be retained even after you refresh your VAIO computer. However, some app settings or files in the specific folders may not be retained.

Confirm the following list for details of which settings are retained, and which data is erased after you refresh the computer.

Settings retained after you refresh your VAIO computer

The following settings will be retained after you refresh your VAIO computer.

- Library settings
- User accounts (local, domain, Microsoft account), and group memberships
- Domain settings
- **Windows Update** settings
- Start screen and lock screen background
- Desktop themes
- International settings
- Wireless network profiles
- Settings configured in Windows Welcome

Data erased after you refresh your VAIO computer

The data in the folders specified below will be erased after you refresh your VAIO computer.

- \Windows
- \Program Files
- \Program Files(x86)
- \ProgramData
- \Users\User name\AppData

Note

- Save important data in advance.
- Copyright protected data, such as digital broadcast data or music files organized by digital media playback apps may not be available, even if the data is retained in the same location after you refresh your VAIO computer.
Refer to the help file included with the app you are using for instructions.

Hint

- The apps installed at the time of delivery and installed from **Windows Store** are retained, whereas all Desktop apps that you installed after the purchase will be erased.

[Go to Page Top](#)

Related Topic

- [About Recovery](#)
- [Recovering from the Recovery Area](#)
- [Recovering from Recovery Media](#)
- [Notes on Recovery](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

About Types of Backup

You can use the Windows **Backup and Restore** feature to back up your valuable data.

There are several types of backup to meet your needs, as described below.

Backing up files

You can select and back up folders and files stored on your VAIO computer to an external hard disk drive.

For details on how to back up data, refer to **Windows Help and Support** ([Opening Windows Help and Support](#)).

Backing up system images

You can create a backup copy of the whole system of your VAIO computer. If the built-in storage device or the computer ever stops working, you can use the system image to restore the computer as it was when backed up.

To create a system image, you need an optional hard disk drive formatted in NTFS format. You can also back up a system image to optical discs such as Blu-ray Disc or DVD disc.

For details on how to create a system image, refer to **Windows Help and Support** ([Opening Windows Help and Support](#)).

Note

- We will not restore or compensate for any lost or damaged data under any circumstances including failure of your VAIO computer.
- Create Recovery Media soon after purchasing your VAIO computer. In the event that you cannot make a backup copy of your data with the Windows feature due to computer malfunctions, you can use the backup tool included in the Recovery Media to back up your data.

For information on how to create the Recovery Media, see [Creating Recovery Media](#).

Hint

- If your VAIO computer is equipped with no disc drive, you need to connect an external device, such as an external hard disk drive or DVD drive, to the computer before backup, or you need to resize the partition of your C: drive and create another partition before backup. See [Creating Partitions](#) for more information.

[Go to Page Top](#)

Related Topic

- [About Backup](#)
- [Backing Up Your Data when You cannot Start Windows](#)
- [Restoring Your Data with VAIO Data Restore Tool](#)
- [Restoring System Files Using the Restore Point when You cannot Start Windows](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

About Backup

The backup process creates a backup copy of your data stored on the built-in storage device and saves it to another location.

Due to unexpected events or computer viruses, you might lose various data stored on your built-in storage device. To restore the lost data, its backup copy is needed.

It is strongly recommended that you back up your data regularly.

If you can start Windows, back up and restore your data with the Windows feature. To use the feature, open **Control Panel** and select **System and Security** and **File History**.

 [Go to Page Top](#)

Related Topic

- [About Types of Backup](#)
- [Backing Up Your Data when You cannot Start Windows](#)
- [Restoring Your Data with VAIO Data Restore Tool](#)
- [Creating a Restore Point](#)
- [Restoring System Files Using the Restore Point when You cannot Start Windows](#)

 [Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Creating a Restore Point

A restore point enables you to restore your computer system files to a previous state, depending on when the restore point was created.

Typically, restore points are created automatically, for example when you install a driver. However, we recommend that you create a new restore point manually before installing any apps or drivers on your VAIO computer.

Refer to **Windows Help and Support** ([Opening Windows Help and Support](#)) for information on creating a restore point.

 [Go to Page Top](#)

Related Topic

- [Restoring Your Data with VAIO Data Restore Tool](#)
- [Restoring System Files Using the Restore Point when You cannot Start Windows](#)

 [Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Restoring System Files Using the Restore Point when You cannot Start Windows

When you cannot start Windows, follow these steps to restore computer system files.

1. Insert Recovery Media (optical discs) into the optical disc drive or connect a USB flash drive to the USB port on your VAIO computer while the computer is in Normal mode.
2. Turn off your VAIO computer.
3. Press the **ASSIST** button to display the **VAIO Care (Rescue Mode)** screen and select **Start from media (USB device/optical disc)**.
Follow the on-screen instructions until the **Choose an option** screen appears.
4. Select **Troubleshoot, Advanced options, and System Restore**.
5. Select your operating system.
The **System Restore** window appears.
6. Select **Next**.
7. Select a restore point and **Next**.
The confirmation window of the selected restore point appears.
8. Select **Finish** to confirm the restore point.
Your VAIO computer restarts after system files are restored.

[Go to Page Top](#)

Related Topic

- [About Backup](#)
- [About Types of Backup](#)
- [Backing Up Your Data when You cannot Start Windows](#)
- [Restoring Your Data with VAIO Data Restore Tool](#)
- [Creating a Restore Point](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Backing Up Your Data when You cannot Start Windows

If you cannot start Windows, back up your data with **VAIO Care (Rescue Mode): VAIO recovery solutions**.

1. Press the **ASSIST** button while your VAIO computer is off.
The **VAIO Care (Rescue Mode)** screen appears.
2. Select **Start troubleshooting (recovery)**.
Follow the on-screen instructions until the **Choose an option** screen appears.
3. Select **Troubleshoot** and **VAIO recovery solutions**.
Follow the on-screen instructions until the **VAIO Care (Rescue Mode): VAIO recovery solutions** screen appears.
4. Select **Tools** and **Rescue Data**.
5. Follow the on-screen instructions.

Hint

- If the display language selection window appears in step 3, select your desired language, then **OK**.
- Alternatively, you can start **VAIO Care (Rescue Mode): VAIO recovery solutions** with Recovery Media. See [Recovering from Recovery Media](#) for more information.
- It is recommended that you select an external hard disk drive as a location to save rescued files if you select **Custom rescue**.

Notes on using VAIO Care (Rescue Mode): VAIO recovery solutions

- Handle rescued files with care to protect from unauthorized access.
- Disable the Windows hard disk drive encryption feature before using **VAIO Care (Rescue Mode): VAIO recovery solutions** to back up and restore your data.
However, rescued files which are not encrypted on the built-in storage device can be easily accessed by unauthorized users using Recovery Media and this app. Therefore, after using the app, be sure to set the power-on or hard disk password, enable the Windows hard disk drive encryption feature, and keep the Recovery Media in a secure place to protect rescued files from unauthorized access.
- To restore copyright protected data, such as music files organized by digital media playback apps, use a backup tool specified by the app you used to import such data. Sony does not guarantee the playback compatibility of data which is not restored with the specified backup tool.
- **VAIO Care (Rescue Mode): VAIO recovery solutions** does not support backup of a file whose name including the path is over 260 characters.
- Using **VAIO Care (Rescue Mode): VAIO recovery solutions** does not guarantee backup of all the data on your built-in storage device.
Sony assumes no liabilities for any loss of your data arising out of the backup

process.

- Use the power cord or the AC adapter to power your VAIO computer while using **VAIO Care (Rescue Mode): VAIO recovery solutions**.
- Your VAIO computer automatically restarts 72 hours after **VAIO Care (Rescue Mode): VAIO recovery solutions** starts. If 72 hours have passed during the backup process, the process will be stopped and the computer will restart. There is no way to resume the process.
- Rescued files may be divided into two or more files and saved in a specified location or renamed, depending on the location you select. Use **VAIO Data Restore Tool** to restore the rescued files. See [Restoring Your Data with VAIO Data Restore Tool](#) for more information.
- If an external hard disk drive or optical disc drive does not support the USB connection, you need to install a driver.

[↑ Go to Page Top](#)

Related Topic

- [About Backup](#)
- [About Types of Backup](#)
- [Restoring Your Data with VAIO Data Restore Tool](#)
- [Creating a Restore Point](#)
- [Restoring System Files Using the Restore Point when You cannot Start Windows](#)

[↑ Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Restoring Your Data with VAIO Data Restore Tool

You can use **VAIO Data Restore Tool** to restore files previously backed up using **VAIO Care (Rescue Mode): VAIO recovery solutions**.

For instructions on how to use the app, refer to the help file included with the app.

1. Open the charms and select the **Search** charm. (See [Opening the Charms](#) to open the charms.)
2. Select **Apps** and enter "VAIO Data Restore Tool" in the search box.
3. Select **VAIO Data Restore Tool**.
The **VAIO Data Restore Tool** window appears.
4. Select **Next**.
If the **User Account Control** window appears, select **Yes**.
5. Follow the on-screen instructions.

Note

- To restore copyright protected data, such as music files organized by digital media playback apps, use a backup tool specified by the app you used to import such data. Sony does not guarantee the playback compatibility of data which is not restored with the specified backup tool.

Hint

- If you are signed in to your VAIO computer as a standard user, you may be prompted to enter an administrator name and password.
- If necessary, move the restored files to the original location.

[Go to Page Top](#)

Related Topic

- [About Backup](#)
- [About Types of Backup](#)
- [Backing Up Your Data when You cannot Start Windows](#)
- [Creating a Restore Point](#)
- [Restoring System Files Using the Restore Point when You cannot Start Windows](#)

[Go to Page Top](#)

[Back](#) | [Back to Top](#) [Print](#)

User Guide

How to Use

[Windows 8: The Basics](#)[Parts Description](#)[Setup](#)[Network / Internet](#)[Connections](#)[Settings](#)[Playback](#)[Backup / Recovery](#)[Security](#)[Other Operations](#)[Notifications](#)

Troubleshooting

List of Topics

Creating Partitions

This topic describes how to create partitions.

Note

- If you reduce the volume of the C: drive partition, you may not create Recovery Media or complete the recovery process successfully because the free space on the built-in storage device is not sufficient.

1. Open **Control Panel**, select **System and Security**, and select **Create and format hard disk partitions** under **Administrative Tools**. (See [Opening Control Panel](#) to open **Control Panel**)
If the **User Account Control** window appears, select **Yes**.
2. Right-click the C: drive and select **Shrink Volume**.
3. Enter the size of the partition to be created in **Enter the amount of space to shrink in MB** and select **Shrink**.
4. Right-click **Unallocated** and select **New Simple Volume**.
5. Follow the on-screen instructions.

Hint

- If you are signed in to your VAIO computer as a standard user, you may be prompted to enter an administrator name and password.

[↑ Go to Page Top](#)

Related Topic

- [Creating Other Drives \(Modifying Partitions\)](#)
- [Removing Recovery Content to Free up Disk Space](#)

[↑ Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Creating Other Drives (Modifying Partitions)

Partitions are divided areas on your built-in storage device. Dividing the built-in storage device into more than one partition may have various advantages, such as separating the system files from your data files.

Your VAIO computer has only one partition (C: drive) as the factory default setting.

If you want to store data in another partition, such as D: drive, change the partition size and create a new partition.

For more information on how to create partitions, see [Creating Partitions](#).

Hint

- Some models may have D: drive as the factory default setting.

[Go to Page Top](#)

Related Topic

- [Creating Partitions](#)
- [Removing Recovery Content to Free up Disk Space](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

? Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Charge Indicator Status List

The charge indicator light turns on or blinks differently according to conditions.

Lit in orange

The battery pack is charging. (Turns off when charging is completed.)

Blinks in orange

The battery pack is running out of power. (Normal mode)

If your VAIO computer is equipped with the power indicator, it blinks along with the charge indicator.

Blinks fast in orange

A battery error has occurred due to a failed battery pack, an unlocked battery pack (if it is removable), etc.

[Go to Page Top](#)

Related Topic

- [Charging the Battery Pack](#)
- [Checking the Battery Charge Capacity](#)
- [Extending the Battery Life](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

About Sleep Mode

Sleep mode enables you to take a break and retain the computer's state, including data you are working on.

With the default Sleep mode settings, Rapid Wake is enabled and your VAIO computer enters Sleep mode after your working data is saved on the built-in storage device. This reduces the possibility of loss of unsaved data if the battery pack runs out during Sleep mode.

[Go to Page Top](#)

Related Topic

- [Controlling the Power State of Your VAIO Computer \(Sleep Mode/Shutdown\)](#)
- [Using Sleep Mode](#)
- [Notes on Sleep Mode](#)
- [Changing the Rapid Wake \(Sleep Mode\) Settings](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Changing the Rapid Wake (Sleep Mode) Settings

You can change the Rapid Wake settings in **VAIO Control Center**.

Rapid Wake is enabled by default. With this function, your VAIO enters Sleep mode after your working data is saved on the built-in storage device.

1. Start **VAIO Control Center** and select **Hardware**. (See [Searching/Starting Apps, Settings, or Files](#) to start **VAIO Control Center**.)
2. Enable/disable the setting in **Rapid Wake**.

Note

- With Rapid Wake disabled:
 - Your working data is not saved on the built-in storage device when your VAIO computer enters Sleep mode. Therefore, if the computer is turned off during Sleep mode because, for example, the battery pack runs out of power or the computer is disconnected from an AC power source, the working data will be lost. To avoid data loss, be sure to save the data before the computer enters Sleep mode.
 - If your VAIO computer is equipped with the power indicator, it blinks slowly in orange during Sleep mode. When the battery pack runs out of power during Sleep mode, the charge indicator light blinks. If the computer is equipped with the power indicator, it blinks along with the charge indicator.

[Go to Page Top](#)

Related Topic

- [Using Sleep Mode](#)
- [Notes on Sleep Mode](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Extending the Battery Life

When your VAIO computer is running on battery power, you can extend the battery life using the following methods.

- Use Sleep mode.
When you do not need to use your VAIO computer temporarily, you can use Sleep mode. To extend the battery life, use Sleep mode frequently. If you do not intend to use the computer for an extended period of time, turn off the computer.
Resuming the computer from Sleep mode is faster than from booting up the computer.
See [Using Sleep Mode](#) for more information.
- Decrease the LCD brightness of the computer screen.
See [Changing the LCD Brightness](#) for more information.
- Turn down the volume of the speakers and headphones.
See [Adjusting the Speakers Volume](#) for more information.
- Disconnect peripheral devices that are not in use.

[Go to Page Top](#)

Related Topic

- [Checking the Battery Charge Capacity](#)
- [Charging the Battery Pack](#)
- [Notes on Using the Battery Pack](#)
- [Using Sleep Mode](#)

[Go to Page Top](#)

[Back](#) | [Back to Top](#) [Print](#)

User Guide

How to Use

[Windows 8: The Basics](#)[Parts Description](#)[Setup](#)[Network / Internet](#)[Connections](#)[Settings](#)[Playback](#)[Backup / Recovery](#)[Security](#)[Other Operations](#)[Notifications](#)

Troubleshooting

List of Topics

Checking the Battery Charge Capacity

The battery pack is consumable. The capacity gradually declines through repeated cycles of recharging and discharging. As a result, the battery life becomes short even if it is fully charged and eventually the battery pack reaches the end of its life.

If the battery life has become short, replace the battery pack with a new one specified by Sony. Refer to the help file for more information on battery charge status and capacity decrease.

1. Start **VAIO Control Center** and select **Power and Battery** (See [Searching/Starting Apps, Settings, or Files](#) to start **VAIO Control Center**.)
2. Select **Details in Battery**.
Detailed battery pack information, such as charging capacity, is displayed.

Hint

- Enable the battery care function to maximize the battery lifespan. With this function, you can reduce battery degradation by limiting the maximum charging capacity. When the function is enabled, the battery pack is not fully charged.

[↑ Go to Page Top](#)

Related Topic

- [Extending the Battery Life](#)
- [Notes on Using the Battery Pack](#)
- [Charging the Battery Pack](#)

[↑ Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

About the Touch Screen (Touch screen equipped models)

The touch screen enables direct interaction with your VAIO computer using your finger(s). You can perform various gestures on the touch screen. Your VAIO computer supports multi-touch input.

Note

- Your VAIO computer is equipped with a capacitive touch screen. When using it, note the following characteristics of the capacitive touch screen.
 - The touch screen will not work if you touch it with fingernails, or if you wear gloves.
 - If tapping triggers an unintentional operation, make sure that no other parts of your body are in contact with the touch screen.
 - The surface of the touch screen may get hot. This is normal and does not indicate a malfunction.
 - Even though the surface of the touch screen is tempered glass, it could still become damaged. Treat it with adequate care. If it breaks, small granular shards may scatter and cause injury.
Do not drop the touch screen or subject it to a strong impact. Do not scratch the surface. A surface flaw may cause the glass to break.
 - A protection sheet may be attached to the LCD screen frame at the factory. Remove the sheet before use; otherwise the touch screen may not work correctly.
 - Some apps do not accept touch screen operations.

[Go to Page Top](#)

Related Topic

- [How to Use the Touch Screen \(Touch screen equipped models\)](#)

[Go to Page Top](#)

[Back](#) | [Back to Top](#) [Print](#)

User Guide

How to Use

[Windows 8: The Basics](#)[Parts Description](#)[Setup](#)[Network / Internet](#)[Connections](#)[Settings](#)[Playback](#)[Backup / Recovery](#)[Security](#)[Other Operations](#)[Notifications](#)

Troubleshooting

List of Topics

Entering Characters with Touch Screen Operations (Touch screen equipped models)

You can operate the on-screen Touch Keyboard with touch screen operations for text entry.

1. Open the desktop and select (the Touch Keyboard icon) in the desktop notification area. (See [Opening the Desktop](#) to open the desktop.)

Hint

- The on-screen Touch Keyboard appears automatically when you touch a text field.

[↑ Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Combinations and Functions with the Fn Key

Press and hold down the **Fn** key and another key simultaneously to perform a keyboard shortcut action.

For example, to turn off the sound: **Fn** + (F2) → Press and hold down the **Fn** key, then press the **F2** key.

Some keyboard functions can only be used while Windows is running.

Fn + (F1)

Disables and enables the touch pad. See [Enabling/Disabling the Touch Pad](#) for more information.

Fn + (F2)

Turns on and off the built-in speakers or the headphones.

Fn + / (F3/F4)

Press the button repeatedly to adjust the volume level of the built-in speakers and the headphones. See [Adjusting the Speakers Volume](#) for more information.

To decrease the volume, press the **Fn+F3** keys.

To increase the volume, press the **Fn+F4** keys.

Fn + / (F5/F6)

Press the button repeatedly to adjust the LCD brightness of your computer screen.

See [Changing the LCD Brightness](#) for more information.

To decrease lighting intensity, press the **Fn+F5** keys.

To increase lighting intensity, press the **Fn+F6** keys.

Fn + (F7)

Switches the display output to an external display.

Press the **Fn+F7** keys several times to select the desired display output destination, and then press the **Enter** key to confirm. See [Selecting Display Modes](#) for more information.

Fn + **Num Lk** (Num Lock)

Enables the keys on which numbers are printed as a numeric keypad to enter the numbers. (Non numeric keypad equipped models)

Fn + **Scr Lk** (Scroll Lock)

Works differently depending on the apps you use. Refer to the help file included with the app for more information.

Fn + **Pg Up** (Page Up)

Goes to the previous page. (Non numeric keypad equipped models)

Fn + **End** (End)

Moves the cursor to the end of a line or page. (Non numeric keypad equipped models)

Fn + **Pg Dn** (Page Down)

Goes to the next page. (Non numeric keypad equipped models)

Fn + Home (Home)

Moves the cursor to the top of a line or page. (Non numeric keypad equipped models)

Hint

- For information on shortcut keys combined with the  (Windows) key, etc., refer to **Windows Help and Support** ([Opening Windows Help and Support](#)).

 [Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Notes on the Built-in Camera (Built-in camera equipped models)

- Do not scratch or soil the area on and around the built-in camera, as it may cause poor-quality images.
- Do not let direct sunlight enter the lens of the built-in camera regardless of your VAIO computer's power state, as it may cause the camera to malfunction.

Care and cleaning of the built-in camera

If the area on and around the built-in camera is soiled, gently wipe it with a soft cloth, such as a lens cleaning cloth.

Do not rub the area too hard, as it can be easily scratched.

 [Go to Page Top](#)

Related Topic

- [Using the Built-in Camera \(Built-in camera equipped models\)](#)

 [Go to Page Top](#)



User Guide

How to Use

[Windows 8: The Basics](#)[Parts Description](#)[Setup](#)[Network / Internet](#)[Connections](#)[Settings](#)[Playback](#)[Backup / Recovery](#)[Security](#)[Other Operations](#)[Notifications](#)

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#) [Print](#)

Inserting SD Memory Cards

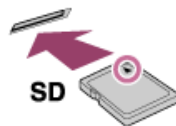
Your VAIO computer is equipped with an **SD** memory card slot. You can use this slot to transfer data among digital cameras, camcorders, music players, and other audio/video devices.

The **SD** memory card slot on the computer can accommodate the following memory cards:

- SD memory card
- SDHC memory card
- SDXC memory card

To insert an SD memory card, follow these steps.

1. Locate the **SD** memory card slot.
2. Hold the SD memory card with the arrow pointing toward the slot, and carefully slide it into the slot until it clicks into place.



The SD memory card icon will appear in the **Computer** window after you insert the card into the slot.

Note

- Be careful not to insert an SD memory card in the wrong orientation. If you force it into the slot upside down, the slot may be damaged. Refer to the manual that came with the SD memory card for more information.
- The SD memory card icon will not appear in the **Computer** window until you insert the card into the slot.

Hint

- To open the **Computer** window, see [Searching/Starting Apps, Settings, or Files](#).
- When you insert the SD memory card into the slot for the first time, you may be prompted to install a driver. If prompted, follow the on-screen instructions to install the driver.

[Go to Page Top](#)**Related Topic**

- [Removing SD Memory Cards](#)
- [Notes on Using SD Memory Cards](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)



Notes on Using SD Memory Cards

Before using SD memory cards, read the following precautions for correct use.

- Keep an SD memory card out of reach of children. There is a risk of swallowing it.
- Do not touch the SD memory card connector with your finger or metal objects.
- An SD memory card contains delicate electronic components. Do not impact, bend or drop it.
- Do not disassemble or modify an SD memory card.
- Do not wet an SD memory card.
- Do not use or store in a location subject to:
 - Extremely high temperature, such as in a car parked in the sun
 - Direct sunlight
 - High humidity or corrosive substances
 - Excessive dust
- Be sure to use SD memory cards and adaptors that are compliant with the standards supported by your VAIO computer. Incompatible cards and adaptors may get stuck in the slot, causing damage to the computer.
- You cannot write data to an SD memory card that is write-protected.
- It is recommended that you make a backup copy of important data.
- Stored data may be lost or corrupted if:
 - You remove an SD memory card or turn off your VAIO computer while data is being read from or written to the SD memory card.
 - You use an SD memory card at a place where static electricity or electrical noise may disturb the card.
- When carrying an SD memory card, be sure to put it in its case to avoid static electricity.
- Before using an SD memory card with a device other than a computer, such as a digital camera or a portable audio, format (initialize) the SD memory card using the device.

Some devices may not support the file format for computers and show you a message that recommends you to format the SD memory card. In this case, copy data from the card to your VAIO computer and format the card using the device. All data in the SD memory card will be deleted when you format it. Refer to the manual that came with the device for more information.
- Do not insert foreign objects into the SD memory card slot.
- The SD memory card slot can be used for reading/writing supported memory cards only, and cannot be used for other purposes.
- SD memory cards (up to 2 GB), SDHC memory cards (up to 32 GB) and SDXC memory cards (up to 128 GB) available as of January 2013 have been tested and found compatible with your VAIO computer. However, it is not guaranteed that all SD memory cards, SDHC memory cards or SDXC memory cards will be

compatible with the computer.

- The SD memory card slot on your VAIO computer does not support the copyright protection feature of the SD memory card, the SDHC memory card, and the SDXC memory card.
- Do not attempt to insert a memory card or memory card adaptor of a different type into the memory card slot. An incompatible memory card or memory card adaptor may get stuck in the slot, causing damage to your VAIO computer.
- Some types of SD memory cards, for example ones with the UHS (Ultra High Speed data transfer feature), may become extremely hot due to continuous access to the memory cards. In such a case, wait for a while before removing the memory card until it cools down.

[↑ Go to Page Top](#)

Related Topic

- [Inserting SD Memory Cards](#)
- [Removing SD Memory Cards](#)

[↑ Go to Page Top](#)

[Back](#) | [Back to Top](#) [Print](#)

User Guide

How to Use

[Windows 8: The Basics](#)[Parts Description](#)[Setup](#)[Network / Internet](#)[Connections](#)[Settings](#)[Playback](#)[Backup / Recovery](#)[Security](#)[Other Operations](#)[Notifications](#)

Troubleshooting

List of Topics

Removing SD Memory Cards

This topic explains how to remove an SD memory card.

1. Locate the **SD** memory card slot.
2. Open **Computer**.
To open **Computer**, see [Searching/Starting Apps, Settings, or Files](#).
3. Right-click the SD memory card icon and select **Eject**.
4. Push in the SD memory card toward your VAIO computer and release.
5. Pull the SD memory card out of the slot.

[↑ Go to Page Top](#)

Related Topic

- [Inserting SD Memory Cards](#)
- [Notes on Using SD Memory Cards](#)

[↑ Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Notes on NFC/One-touch functions (NFC supported models)

Before using the NFC/One-touch functions, read the following precautions for correct use.

- In some countries or regions, using NFC/One-touch functions may be restricted by local regulations.
- If you urgently need to disable NFC/One-touch functions, turn off your VAIO computer.

 [Go to Page Top](#)

Related Topic

- [About NFC \(NFC supported models\)](#)
- [About One-touch functions \(NFC supported models\)](#)
- [Using NFC/One-touch functions \(NFC supported models\)](#)
- [Disabling NFC/One-touch functions \(NFC supported models\)](#)

 [Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Disabling NFC/One-touch functions (NFC supported models)

You can disable NFC/One-touch functions by following these steps.

1. Open the charms and select the **Settings** charm. (See [Opening the Charms](#) to open the charms.)
2. Select **Change PC settings** in the lower right corner.
3. Select **Wireless** in the left pane of the **PC settings** screen.
4. Change the **NFC** setting under **Wireless devices** to **Off**.

Hint

- To use NFC/One-touch functions, change **Airplane mode** to **Off** and the **NFC** setting under **Wireless devices** to **On**.
- When **Airplane mode** is **Off**, the wireless function setting is enabled.
- Refer to **Windows Help and Support** ([Opening Windows Help and Support](#)) for more information on **Airplane mode**.

[Go to Page Top](#)

Related Topic

- [About NFC \(NFC supported models\)](#)
- [About One-touch functions \(NFC supported models\)](#)
- [Using NFC/One-touch functions \(NFC supported models\)](#)
- [Notes on NFC/One-touch functions \(NFC supported models\)](#)

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

About One-touch functions (NFC supported models)

One-touch functions are Sony original functions which use NFC.

Simply touch two One-touch functions supported devices to easily establish communication, without complicated settings.

 [Go to Page Top](#)

Related Topic

- [About NFC \(NFC supported models\)](#)
- [Using NFC/One-touch functions \(NFC supported models\)](#)
- [Disabling NFC/One-touch functions \(NFC supported models\)](#)
- [Notes on NFC/One-touch functions \(NFC supported models\)](#)

 [Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

About NFC (NFC supported models)

Near Field Communication (NFC) is a short-range wireless technology. The communication distance of NFC is approximately 4 inches / 10 cm.

 [Go to Page Top](#)

Related Topic

- [About One-touch functions \(NFC supported models\)](#)
- [Using NFC/One-touch functions \(NFC supported models\)](#)
- [Disabling NFC/One-touch functions \(NFC supported models\)](#)
- [Notes on NFC/One-touch functions \(NFC supported models\)](#)

 [Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting


List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Using NFC/One-touch functions (NFC supported models)

Easily connect an NFC/One-touch functions supported device to your VAIO computer by simply touching the computer with the device.

1. Open the charms and select the  **Settings** charm. (See [Opening the Charms](#) to open the charms.)
2. Select **Change PC settings** in the lower right corner.
3. Select **Wireless** in the left pane of the **PC settings** screen.
4. Change **Airplane mode** to **Off** and the **NFC** setting under **Wireless devices** to **On**.
5. When touching your VAIO computer ([Parts and Controls on the Front](#)) with an NFC/One-touch functions supported device, ensure that the touch mark on each device faces each other.



A message will appear the moment the device is recognized. Follow the on-screen instructions.

Hint

- Refer to **Windows Help and Support** ([Opening Windows Help and Support](#)) for more information on **Airplane mode**.
- You may need to change the device settings depending on the NFC/One-touch functions supported device you use. For detailed information, refer to the manual that came with your device.

[Go to Page Top](#)

Related Topic

- [About NFC \(NFC supported models\)](#)
- [About One-touch functions \(NFC supported models\)](#)
- [Disabling NFC/One-touch functions \(NFC supported models\)](#)
- [Notes on NFC/One-touch functions \(NFC supported models\)](#)

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Handling Discs (Optical disc drive equipped models)

Read the following to protect data stored on discs and take proper care of discs.

- Be sure to hold the disc by its edges and central hole without touching the recording surface (playing surface), as shown below. Fingerprints and dust on the surface of a disc may cause a read or write error. Be sure to keep the disc clean.



- Sony assumes no liability for any problems and damages to discs arising out of adhesive labels affixed to discs. Refer to the manual carefully that came with the label app or label paper, and use the labels under your responsibility.



To take proper care of discs

- For normal cleaning, hold the disc by its edges and use a soft cloth to wipe the surface from the center out, as shown below.



- If the disc is badly soiled, moisten a soft cloth with water, wring it out well, and use it to wipe the surface of the disc. Wipe off any remaining moisture with a dry soft cloth.
- Do not use solvents such as benzine, thinner, commercially available cleaners, or anti-static spray which may cause damage to the disc.

[Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Notes on Using Discs (Optical disc drive equipped models)

Observe the following notes when using discs on your VAIO computer.

Notes on playing discs

- Depending on system environment, you may find sound interruptions and/or dropped frames during DVD/BD/AVCHD playback. In addition, some discs may not be able to play on your VAIO computer.
- When you are playing discs:
 - The CPU load increases. Close all running apps other than the playback app you are currently using to enjoy smoother playback.
 - Do not switch the display output between the computer screen and an external display.

Notes on playing recorded discs on other players

- Some CD players may not be able to play audio CDs created with CD-R or CD-RW media.
- Some DVD players may not be able to play DVDs created with DVD+R DL, DVD-R DL, DVD+R, DVD+RW, DVD-R, DVD-RW, or DVD-RAM media.
- Blu-ray Disc recorders that support only BD-RE Ver.1.0 cannot play BD-R or BD-RE media created with your VAIO computer. (Blu-ray Disc Drive with DVD SuperMulti equipped models)

Tips for successful writing

- Do not plug or unplug cables, such as the AC adapter or the power cord while the optical disc drive is writing data to a disc.
- The writing process may take longer to complete than theoretically predicted because some apps write and verify data simultaneously.
- Sony assumes no liability for any loss or damage of any kind arising out of writing failure.

 [Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Cleaning Your VAIO computer/LCD screen

Before cleaning your VAIO computer, read the following precautions for the correct cleaning procedure.

When cleaning your VAIO computer

- Turn off your VAIO computer, unplug the AC adapter, and remove the battery pack before cleaning the computer.
- Use a soft, dry cloth to wipe debris and dust off your VAIO computer.
- Be sure to use a soft, dry cloth when cleaning your VAIO computer. If the computer is badly soiled, fog the surface of the computer with your breath and wipe off the dirt, or clean off with a lightly wet cloth and then wipe remaining moisture away with a dry cloth.
- Do not use solvents such as benzine, acetone, alcohol, thinner, or commercially available cleaners, as these may cause damage to the surface or coating of your VAIO computer.
- Use a blower to blow off debris and dust underneath the keys (keycaps). Do not remove any keycap from the keyboard.
Do not use a vacuum cleaner, as it may cause a malfunction.

When cleaning your LCD screen

- Be sure to use a soft, dry cloth when cleaning your VAIO computer. If the LCD screen is badly soiled, fog the surface of the LCD screen with your breath and wipe off the dirt, or clean off with a lightly wet cloth and then wipe remaining moisture away with a dry cloth.
- Do not use solvents such as benzine, acetone, alcohol, thinner, or commercially available cleaners, as these may cause damage to the LCD screen.

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Safety Information

Refer to the supplied safety manual for detailed safety information.

Computer

- If you drop a solid object or any liquid onto your VAIO computer, shut down the computer, unplug it, and remove the battery pack if it is removable. You may want to have the computer checked by qualified personnel before operating it again.
- Use only specified peripheral equipment and interface cables.
- Keep small parts such as memory cards and memory card adaptors out of reach of children. There is a risk of swallowing them.
- The temperature of the surface and the bottom of your VAIO computer, the AC adapter, and the battery may rise due to the CPU load or an electric current generated while the battery is being charged. This is normal and does not indicate a malfunction. The amount of heat generation varies depending on external devices or apps in use.
- If your VAIO computer or the AC adapter becomes extraordinarily hot, turn off the computer, unplug the AC adapter, remove the battery pack if it is removable, and then contact an authorized Sony service/support center.

Power source

- Do not place heavy objects on the power cord, or this could cause a fire.
- To disconnect the power cord, pull it out by holding the plug. Never pull the cord itself.
- Do not use cut or damaged connection cables.
- Unplug your VAIO computer from the AC outlet if you are not planning to use the computer for an extended period of time.
- If you are not using your VAIO computer for an extended period of time, remove the battery pack from the computer to prevent damage to the battery pack.

Headphones

- Do not use headphones while driving, cycling, or operating any motorized vehicle. It may create a traffic hazard and is illegal in some areas. It can also be potentially dangerous to play loud music while walking, especially at pedestrian crossings.
- Avoid using headphones at high volume. Hearing experts advise against continuous, loud and extended play. If you experience a ringing in your ears, reduce the volume or discontinue use.



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Handling the Built-in Storage Device

The built-in storage device (hard disk drive or solid state drive) has a high storage density and reads or writes data in a short time. However, it can be easily damaged if improperly used.

If the built-in storage device is damaged, the data cannot be restored. To prevent losing data, you should be careful when handling your VAIO computer.

To avoid damaging your built-in storage device

- Do not subject your VAIO computer to sudden movements.
- Keep your VAIO computer away from magnets.
- Do not place your VAIO computer in a location subject to mechanical vibration or in an unstable position.
- Do not turn off the power or restart your VAIO computer while reading or writing data to the storage device.
- Do not use your VAIO computer in a place subject to extreme changes in temperature.
- Do not remove the storage device from your VAIO computer.

 [Go to Page Top](#)

User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

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[↑ Go to Page Top](#)

Related Topic

- [Read This First](#)

[↑ Go to Page Top](#)

[Back](#) | [Back to Top](#) [Print](#)

User Guide

How to Use

[Windows 8: The Basics](#)[Parts Description](#)[Setup](#)[Network / Internet](#)[Connections](#)[Settings](#)[Playback](#)[Backup / Recovery](#)[Security](#)[Other Operations](#)[Notifications](#)


Troubleshooting

List of Topics

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Not all the software listed above may be delivered with your model.

 [Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

About the International ENERGY STAR(R) Program



The following information is applicable to ENERGY STAR qualified products only. As an ENERGY STAR Partner, Sony confirmed that this product meets the ENERGY STAR standards for energy efficiency.

The International ENERGY STAR Office Equipment Program is an international program that promotes energy saving through the use of computers and office equipment. The program backs the development and dissemination of products with functions that effectively reduce energy consumption.

For detailed information on the ENERGY STAR Program, visit the following websites:

- <http://www.energystar.gov/> (USA)
- <http://www.eu-energystar.org/> (Europe)

This computer is designed in compliance with the ENERGY STAR standards and delivered with the following power saving settings that apply to the computer running on AC power:

- The LCD backlight is turned off automatically after no more than 15 minutes of inactivity.
- The computer enters Sleep mode automatically after no more than 30 minutes of inactivity.

Press the (Power) button to bring the computer back into Normal mode.

[Go to Page Top](#)



User Guide

How to Use

Windows 8: The Basics

Parts Description

Setup

Network / Internet

Connections

Settings

Playback

Backup / Recovery

Security

Other Operations

Notifications

Troubleshooting

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Solving Common Problems with Your VAIO Computer

If you have any problem operating your VAIO computer, try these suggestions before contacting an authorized Sony service/support center or your local Sony dealer directly.

1. See other sections in this on-screen manual.
2. Start **VAIO Care (Desktop)** and perform necessary operations. (See [Searching/Starting Apps, Settings, or Files](#) to start **VAIO Care (Desktop)**.)
3. Visit the VAIO online support website and find necessary information.

 [Go to Page Top](#)


Related Topic

- [Keeping Your VAIO Computer in Optimum Condition \(VAIO Care\)](#)
- [Read This First](#)
- [About Online Support Website](#)

 [Go to Page Top](#)



User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)


Why does a message appear and Windows fail to start when I turn on my VAIO computer?

- If another message on how to solve the problem appears after the first message, follow the on-screen instructions.
- The BIOS boot options may have been incorrectly configured. Press the **ASSIST** button while your VAIO computer is off to display the **VAIO Care (Rescue Mode)** screen, select **Start BIOS setup**, and change the **Boot Mode** setting, then restart the computer.

 [Go to Page Top](#)



User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)


 [Print](#)

What should I do if my VAIO computer does not turn on or the power button does not work (the charge indicator light blinks fast)?

- The battery pack may not be installed properly.
Remove the battery pack and reinstall it properly. To install or remove the battery pack, see [Installing the Battery Pack](#) or [Removing the Battery Pack](#).
- If the problem persists, it means the installed battery is not compatible with your VAIO computer.
Remove the battery pack.

 [Go to Page Top](#)

User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Why does my VAIO computer automatically turn off?

- When the battery pack is running out of power, your VAIO computer automatically enters Hibernate mode and eventually turns off. Connect the AC adapter to the computer or charge the battery pack.

 [Go to Page Top](#)

User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security




Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

What should I do if I cannot turn off my VAIO computer?

- Follow any of these procedures to exit all running apps and then turn off your VAIO computer again.
 - Drag the app from the top center of the screen to the bottom center. See [Closing Apps](#) for more information.
 - Press the **Alt+F4** keys.
If there is unsaved data, save it at the confirmation prompt.
Press the **Alt+F4** keys until the **Shut Down Windows** window appears and select **Shut down** from the drop-down list and **OK**.
- If you have installed a new app on your VAIO computer, check if the app is working properly, its data is normal, and you have operated it correctly.
- Contact the app publisher or designated provider for technical support.
- If you connect peripheral devices, such as a printer or a USB device, to your VAIO computer or connect the computer to your network, disconnect all peripheral devices or the computer's network connection and then turn off the computer.
While the computer is communicating with a peripheral device or the network, Windows does not allow you to turn off the computer. In addition, some peripheral device drivers for the peripheral devices do not support the feature to force the computer to shut down.
- If the computer screen freezes, press the **Ctrl+Alt+Delete** keys, select  (**Shut down**) in the lower right corner of the computer screen, and then select **Shut down**.
- If your VAIO computer freezes with a message indicating the settings are being saved or the computer is shutting down displayed, follow these procedures in order.
 - Press the **Enter** key.
Wait for a while.
 - If the problem persists, press the **Ctrl+Alt+Delete** keys.
Wait for a while.
- If you still cannot turn off your VAIO computer even after you follow all the above procedures in this topic, perform the following operations.
Note that performing these operations may cause working data to become corrupted. Be sure to disconnect the computer from the network before performing the following operations.
 - Press the **Ctrl+Alt+Delete** keys, select  (**Shut down**) in the lower right corner of the computer screen, and then select **Shut down**.
 - Press and hold down the  (Power) button for more than four seconds.
 - Unplug the AC adapter and remove the battery pack from your VAIO computer.

 [Go to Page Top](#)



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

Print

What should I do if the power indicator light turns on in green when I press the power button but the screen remains blank?

- Make sure the brightness and contrast controls are adjusted correctly.
- An external display may be selected as the display output. Press the **Fn+F7** keys several times to select your desired display output, and then press the **Enter** key.
- If you are using an external display, make sure it is plugged into an AC outlet and is on. Make sure the brightness and contrast controls are adjusted correctly. Refer to the manual that came with your display for information on how to change the settings.
- Press the **Alt+F4** keys several times to close the app window. An app error may have occurred.
- If you wait for a while and the computer screen remains blank, restart your VAIO computer by following the procedures below in order. Note that following these procedures may cause working data to become corrupted.
 - Disconnect all peripheral devices, such as a printer or a USB device, and your VAIO computer from the network, if any.
 - Press and hold down the (Power) button for more than four seconds and make sure the power indicator light is off. Then, turn on your VAIO computer again.
- If the problem persists, press and hold down the (Power) button for more than four seconds and make sure the power indicator light is off. Disconnect all cables connected to your VAIO computer, such as the AC adapter, remove the battery pack, and wait about five minutes. Then, put all cables, peripheral devices, and the battery pack back in place and turn on the computer again.
- If an extra memory module is not installed properly, your VAIO computer may not turn on. Use of memory modules not specified by Sony or improper installation of memory modules may cause the computer to fail to boot or to become unstable. In such a case, reinstall the memory module. If you use a memory module other than the Sony branded memory module, contact the sales dealer or the manufacturer of the memory module.
- If you bring your VAIO computer directly from a cold location to a warm one, or use it in a high humidity location, moisture may condense inside the computer. In such a case, allow at least one hour before turning on the computer. Do not use the computer in a high humidity location (a relative humidity of more than 80 %), as it may cause the computer to malfunction.

[Go to Page Top](#)

User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security



Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

What should I do if my VAIO computer does not turn on (the power indicator light does not turn on in green)?

- Make sure all cables are securely connected to devices, such as between your VAIO computer and the AC adapter; the AC adapter and the power cord; and the power cord and an AC outlet. See [Connecting a Power Source](#).
- If you plug the power cord of your VAIO computer into a power strip with a switch, make sure the switch is turned on and the power cord of the power strip is securely plugged into an AC outlet.
- If you do not turn off your VAIO computer through the normal procedure, the power controller may be suspended due to a program error. Disconnect all cables and peripheral devices, such as the power cord and the USB device, remove the battery pack, and wait about five minutes. Then, put them back in place and turn on the computer again.
- Before using your VAIO computer for the first time, you need to connect the computer to a power source with the AC adapter.
- Check that you are using the supplied Sony AC adapter. For your safety, use only the genuine Sony rechargeable battery pack and AC adapter, which are supplied by Sony for your VAIO computer.
- Make sure the battery pack is installed properly.
- The battery pack may have run out of power.
- Make sure your VAIO computer is not in Hibernate mode by pressing the  (Power) button on the computer. Note that if you press and hold down the  (Power) button for more than four seconds, the computer will turn off.
- If you bring your VAIO computer directly from a cold location to a warm one, or use it in a high humidity location, moisture may condense inside the computer. In such a case, allow at least one hour before turning on the computer. Do not use the computer in a high humidity location (a relative humidity of more than 80 %), as it may cause the computer to malfunction.

 [Go to Page Top](#)



User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security



Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)


What should I do if the VAIO Care (Rescue Mode) screen appears when I turn on my VAIO computer?

- You may have accidentally pressed the **ASSIST** button rather than the  (Power) button.
Close the **VAIO Care (Rescue Mode)** screen and locate the  (Power) button on your VAIO computer.

 [Go to Page Top](#)



User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security


Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)


What should I do if my VAIO computer does not return to Normal mode with keyboard or touch pad operations during Sleep mode?

- To restore your VAIO computer from Sleep mode to Normal mode, press the  (Power) button.

 [Go to Page Top](#)



User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)


What should I do if Hibernate mode is not available or my VAIO computer does not enter Hibernate mode?

- Select **Choose what the power button does** in the **Power Options** window. Select **Change settings that are currently unavailable**, the **Hibernate** check box, and **Save changes**.
To open the **Power Options** window, see [Selecting a Power Plan](#).
- Your VAIO computer may not enter Hibernate mode if you execute a task before the computer completely enters Hibernate mode.

 [Go to Page Top](#)



User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

What should I do if a message appears indicating that the battery pack is incompatible or has been incorrectly installed, after which my VAIO computer enters Hibernate mode?

- This problem could be due to the battery pack not being installed properly. To solve this problem, turn off your VAIO computer, remove the battery pack, and then reinstall it. To install or remove the battery pack, see [Installing the Battery Pack](#) or [Removing the Battery Pack](#).
- If the problem persists, it is likely that the installed battery pack is not compatible with your VAIO computer or has failed. Turn off the computer, remove the battery pack, and then replace it with a new one specified by Sony.

 [Go to Page Top](#)

[Back](#) | [Back to Top](#) [Print](#)

User Guide

[How to Use](#) [Troubleshooting](#)[Hardware](#)[Apps](#)[Network / Internet](#)[Backup / Recovery](#)[Security](#)[Peripheral Devices](#) [List of Topics](#)

Why cannot I fully charge my battery pack?

- The battery care function is enabled. Start **VAIO Control Center** and change the settings in the Power and Battery window. To start **VAIO Control Center**, see [Searching/Starting Apps, Settings, or Files](#).
- If ambient temperature is outside the specified range or the power consumption of your VAIO computer is high when you charge the battery pack, the charge current may be reduced.

[↑ Go to Page Top](#)

User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Why is my VAIO computer running slowly and the CPU clock frequency low while the computer is running on battery power?

- While your VAIO computer is running on battery power, the CPU clock frequency is reduced for power conserving purposes, which causes the computer to run slowly. This is normal and does not indicate a malfunction.

 [Go to Page Top](#)

[Back](#) | [Back to Top](#) [Print](#)

User Guide

[How to Use](#) [Troubleshooting](#)[Hardware](#)[Apps](#)[Network / Internet](#)[Backup / Recovery](#)[Security](#)[Peripheral Devices](#) [List of Topics](#)

What should I do if captured images flicker?

- This problem occurs when you use the built-in camera under fluorescent lights and is due to a mismatch between the lighting output frequency and the shutter speed.

To reduce flicker noise, change the direction of your VAIO computer so that you can adjust the direction of the built-in camera. Some apps offer adjustable parameters, such as brightness or power frequencies, to eliminate flicker noise.

[Go to Page Top](#)



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)


Why does the viewfinder show no images or poor-quality images?

- Some camera apps may not work correctly when another camera app is running. Exit the current app before starting another.
- You may not be able to use another camera app that uses the built-in camera while using the gesture function.
- The viewfinder may show some noise, for example horizontal streaks, when you are viewing a rapid-moving object. This is normal and does not indicate a malfunction.
- If the problem persists, restart your VAIO computer.

 [Go to Page Top](#)



User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)


What should I do if captured images contain dropped frames and audio interruptions?

- The effect settings on your app may cause dropped frames. Refer to the help file included with the app for more information.
- There may be more app running than your VAIO computer can handle. Exit the apps that you are not currently using.
- This problem may occur while your VAIO computer is running on the power saving plan, which reduces the CPU performance. See [Selecting a Power Plan](#) to check the current power plan.

 [Go to Page Top](#)



User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)


Why do sound interruptions and/or dropped frames occur when I play high-definition videos, such as those recorded with the AVCHD digital video camcorder?

- Playing high-definition videos requires substantial hardware resources, such as CPU, GPU, or system memory performance on your VAIO computer. During the video playback, some operations and/or functions may become unavailable, and sound interruptions, dropped frames, and playback failure may occur depending on the configuration of the computer.

 [Go to Page Top](#)



User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

How do I change the LCD brightness?

- Press the **Fn+F5** or **Fn+F6** keys to adjust the LCD brightness of your VAIO computer. See [Changing the LCD Brightness](#) for more information.
- To adjust the LCD brightness of the connected external display, such as a computer display or a TV, use the brightness control on the external display.

 [Go to Page Top](#)

[Back](#) | [Back to Top](#) [Print](#)

User Guide

[How to Use](#) [Troubleshooting](#)[Hardware](#)[Apps](#)[Network / Internet](#)[Backup / Recovery](#)[Security](#)[Peripheral Devices](#) [List of Topics](#)

What should I do if no image is displayed on my external display or TV screen?

- Press the **Fn+F7** keys several times to select your desired display output, and then press the **Enter** key. See [Selecting Display Modes](#) for more information.

[Go to Page Top](#)

User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)


What should I do if videos are not displayed smoothly?

- It is recommended you disable your screen saver. If the screen saver is enabled, it may be activated during DVD playback and prevent the playback from running successfully.
- If you have set the display output to both the computer screen and an external display, change the display output to either of them.
- Some videos may not be displayed smoothly depending on the type or bit rate of videos. Lowering the screen resolution may improve video playback performance. See [Changing the Resolution \(Size\) of the Screen Image](#) for more information.
- If data access to a memory card is in progress, wait until the data access ends and then start playback again.
- If you are playing a video stored on the memory card, copy it to the built-in storage device and then play the copied video.

[Go to Page Top](#)



User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

What should I do if no image is displayed on my TV screen or external display connected to the HDMI output port?

- Reconnect the HDMI cable (not supplied). See [Connecting a TV with an HDMI Input Port](#) for more information.
- Make sure you are using an HDCP-compliant display. The copyright protected content is not displayed on a non-HDCP compliant display.
- Change the screen resolution of the connected TV or external display. Images may appear on the screen. See [Changing the Resolution \(Size\) of the Screen Image](#) for more information.

 [Go to Page Top](#)



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

What should I do if videos are not displayed on the computer screen?

- Your VAIO computer may not have sufficient video memory to display high resolution videos. In such a case, lower the resolution of the LCD screen. See [Changing the Resolution \(Size\) of the Screen Image](#) for more information.
- If you have selected to use an external display using the **Fn+F7** keys and the external display is disconnected from your VAIO computer, the computer screen may be unable to display the video.
In such a case, stop video playback, press the **Fn+F7** keys to select the computer screen as the display output, and then press the **Enter** key. Then, restart video playback.

 [Go to Page Top](#)



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

What should I do if my computer screen goes blank?

- Make sure your VAIO computer is on and not in a power saving mode. See [Using Sleep Mode](#) for more information.
- Make sure your VAIO computer is securely plugged into an AC outlet. If the computer is equipped with the power indicator, make sure it is on. See [Connecting a Power Source](#) for more information.
- The computer screen may be off.
Press any key on the keyboard.
- The display output may be set to an external display.
Press the **Fn+F7** keys several times to select your desired display output, and then press the **Enter** key. See [Selecting Display Modes](#) for more information.
- If your VAIO computer is running on battery power, make sure the battery pack is installed properly and is charged. See [Charging the Battery Pack](#) for more information.
- If you wait for a while and the computer screen remains blank, follow the procedures below:
 - Press and hold down the (Power) button for more than four seconds. If your VAIO computer is equipped with the power indicator, check that it is off, and then turn on the computer.
 - If the problem persists, press and hold down the (Power) button for more than four seconds. If your VAIO computer is equipped with the power indicator, check that it is off. Disconnect all cables and peripheral devices, such as the power cord and the USB device, remove the battery pack, and wait about five minutes. Then, put them back in place and turn on the computer again.

[Go to Page Top](#)



User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

What should I do if some items do not fit on the computer screen?

- Check that the text size is set to 100%. If not, some items, for example an app menu, may not be displayed correctly, depending on the apps you are using. Refer to **Windows Help and Support** ([Opening Windows Help and Support](#)) for more information on how to change the text size.

 [Go to Page Top](#)



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Why does it take time to write data to DVD writable media?

- In disc-at-once mode, it may take about 20 to 40 minutes to complete the writing process after the progress bar reaches 100%. This is normal and does not indicate a malfunction, so wait until the process is complete. Because disc-at-once mode writes all the data to a disc at one time, the optical disc drive writes 1 GB of dummy data to a disc even when the actual data size is less than 1 GB to ensure playback compatibility. Some players can play only discs that are created in disc-at-once mode. When you play the created disc on a player other than your VAIO computer, make sure if the player supports disc writing mode you selected.

 [Go to Page Top](#)



User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

What should I do if I cannot remove the disc from the optical disc drive?

- The drive eject button may not work depending on your VAIO computer status. Exit all running apps and press the drive eject button. If the problem persists, restart the computer and press the drive eject button again.
- If the problem persists, insert a thin, straight object (such as a paper clip) into the manual eject hole on the optical disc drive.

 [Go to Page Top](#)

[Back](#) | [Back to Top](#) [Print](#)

User Guide

[How to Use](#) [Troubleshooting](#)[Hardware](#)[Apps](#)[Network / Internet](#)[Backup / Recovery](#)[Security](#)[Peripheral Devices](#) [List of Topics](#)

Why can't I write data to a disc?

- CD-R, DVD+R DL, DVD+R, DVD-R DL, DVD-R, BD-R, BD-R DL, or BD-R TL media are not rewritable. You can write data to such media only once and cannot delete data on the media.
- See [Supported Discs \(Optical disc drive equipped models\)](#) for more information.

[Go to Page Top](#)



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

What should I do if I cannot play a disc, or dropped frames and/or sound interruptions occur during playback?

- Exit all running apps other than the playback app.
- Try using other playback apps, such as a DVD playback app.
- To play DVD media with Content Protection for Recordable Media (CPRM), you need to install a CPRM pack for the playback app on your VAIO computer.
- To play copyright protected Blu-ray Disc media continually, you need to update the AACS key.
Follow a message displayed on the computer screen to update the AACS key.
You can update it through the Internet.
- Uninstall the playback or writing app installed on your VAIO computer after purchase.
For instructions on how to uninstall the app, refer to the help file included with the app or **Windows Help and Support** ([Opening Windows Help and Support](#)).

[Go to Page Top](#)

[Back](#) | [Back to Top](#) [Print](#)

User Guide


[How to Use](#) [Troubleshooting](#)[Hardware](#)[Apps](#)[Network / Internet](#)[Backup / Recovery](#)[Security](#)[Peripheral Devices](#) [List of Topics](#)

What should I do if my microphone does not work?

- Check if your microphone is selected as a recording device.
Open **Control Panel** and select **Hardware and Sound**. (To open **Control Panel**, see [Opening Control Panel](#).)
Select **Sound** and check if there is a check mark on your desired microphone icon on the **Recording** tab.
If not, select the icon and **Set Default**.
If the icon is not displayed, make sure the microphone is properly connected to your VAIO computer.
- If you are using an external microphone, use a plug-in power microphone.

[Go to Page Top](#)

User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

What should I do if I hear microphone feedback from speakers when using my microphone?

- Microphone feedback may occur when your microphone receives the sound from a sound output device, such as speakers.
 - Keep the microphone away from a sound output device.
 - Turn down the volume of the speakers and the microphone.

 [Go to Page Top](#)



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

What should I do if I do not hear sound from speakers or headphones?

- Check if the volume from speakers or headphones is not minimized.
 - Keep pressing the **Fn+F4** keys to turn up the volume loud enough to hear sound. See [Combinations and Functions with the Fn Key](#) for more information.
- Check if the volume in Windows is not turned off or minimized. See [Adjusting the Volume in Windows](#) for more information.
When the volume is turned off (), select (Deactivate muting) to turn on the volume (). When the volume is minimized, turn up the volume.
- When connecting external speakers or headphones, check the following:
 - Make sure external speakers or headphones are properly connected to your VAIO computer. See [Connecting External Speakers or Headphones](#) for more information.
 - If external speakers require external power, make sure the speakers are securely connected to an AC outlet.
 - Make sure external speakers are turned on.
 - Make sure the volume from external speakers is not minimized.
- Make sure the sound output device is correctly selected. See [Changing the Sound Output Device](#) for more information.
- Check the volume on the playback app you are using.

[Go to Page Top](#)



User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)


What should I do if sound interruptions occur during video or audio playback?

- Sound interruptions may occur when the CPU load is high. In this case, reduce the CPU load by exiting all running apps other than a playback app, or by disabling unnecessary audio effects applied to playback.

 [Go to Page Top](#)



User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

What should I do if I do not hear sound from a digital audio device connected to the digital output port, such as the HDMI output port?

- To output sound from a digital audio device connected to the digital output port on your VAIO computer, you need to change the sound output to the digital audio device. See [Changing the Sound Output Device](#) for more information.

 [Go to Page Top](#)



User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

What should I do if my keyboard configuration is wrong?

- The language layout of your keyboard is labeled on the packaging box. If you choose a different regional keyboard when you complete the Windows setup, the key configuration will be mismatched. To change the keyboard configuration, refer to **Windows Help and Support** ([Opening Windows Help and Support](#)).

 [Go to Page Top](#)



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)


What should I do if I cannot enter certain characters with my keyboard?

- Check if the Num lock indicator light is on or off.
When the indicator light is on, you can enter the numbers printed on the keys.
When the indicator light is off, you can enter the letters and symbols printed on the keys.
Press the **Num Lk** key, or **Fn+Num Lk** keys, to turn the Num Lock indicator light on or off. See [Parts and Controls on the Front](#) for the location.
- Check if the Caps Lock indicator light is on or off.
When the indicator light is on, characters typed will appear in uppercase (or lowercase if you also hold down the **Shift** key).
When the indicator light is off, characters typed will appear in lowercase (or uppercase if you also hold down the **Shift** key).
Press the **Shift+Caps Lock** keys to turn the Caps Lock indicator light on or off. See [Parts and Controls on the Front](#) for the location.

 [Go to Page Top](#)



User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security




Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

What should I do if my VAIO computer screen freezes?

- Restart your VAIO computer.
Press the **Ctrl+Alt+Delete** keys, select  (Shut down) in the lower right corner of the computer screen, and then select **Restart**.
If the problem persists, press and hold down the  (Power) button for more than four seconds, or slide the  (Power) switch to the right for more than four seconds.

 [Go to Page Top](#)



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security






Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)


What should I do if the pointer does not move?

- If your finger reaches an edge of the touch pad, the pointer will not move. You will need to lift your finger, and then place it back on the center of the touch pad.
- The pointer may not move temporarily as expected depending on the condition of your VAIO computer.
In such a case, wait for a while before moving the pointer again.
If the pointer still does not move, press the **Ctrl+Alt+Delete** keys, select  (**Shut down**) in the lower right corner of the computer screen, and then select **Shut down**.
If the problem persists, press and hold down the  (Power) button or slide the  (Power) switch to the right for more than four seconds.
Turning off the computer with the **Ctrl+Alt+Delete** keys, the  (Power) button, or the  (Power) switch may cause loss of unsaved data.
- The touch pad may be disabled. See [Why can't I use the touch pad?](#) for more information.

 [Go to Page Top](#)



User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)


What should I do if I cannot enter numbers with the numeric keypad?

- Check if the Num lock indicator light is on or off.
When the indicator light is on, you can enter the numbers printed on the keys.
When the indicator light is off, you can enter the letters and symbols printed on the keys.
Press the **Num Lk** key, or **Fn+Num Lk** keys, to turn the Num Lock indicator light on or off. See [Parts and Controls on the Front](#) for the location.

 [Go to Page Top](#)



User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Why can't I use the touch pad?

- The touch pad is disabled.
 - Press the **Fn+F1** keys to enable the touch pad. See [Enabling/Disabling the Touch Pad](#) for more information.
Alternatively, start **VAIO Control Center**, then enable the touch pad. To start **VAIO Control Center**, see [Searching/Starting Apps, Settings, or Files](#).
 - If a mouse is connected to your VAIO computer, disconnect it.
- See [Using the Touch Pad](#) for information on how to use the touch pad.

 [Go to Page Top](#)

User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

How do I avoid unintentional clicks caused by a light touch on the touch pad?

- To avoid unintentional operation, disable the tapping function. See [Disabling the Tapping Function on the Touch Pad](#).

 [Go to Page Top](#)

[Back](#) | [Back to Top](#) [Print](#)

User Guide

[How to Use](#) [Troubleshooting](#)[Hardware](#)[Apps](#)[Network / Internet](#)[Backup / Recovery](#)[Security](#)[Peripheral Devices](#) [List of Topics](#)

How do I disable the touch pad?

- Press the **Fn+F1** keys to disable the touch pad. See [Enabling/Disabling the Touch Pad](#) for more information.
Alternatively, start **VAIO Control Center**, then disable the touch pad. To start **VAIO Control Center**, see [Searching/Starting Apps, Settings, or Files](#).

[Go to Page Top](#)



User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)


 [Print](#)

Why is the video input from the built-in camera suspended momentarily?

- The video input may be suspended momentarily if:
 - A shortcut key with the **Fn** key is used.
 - The CPU load increases.

 [Go to Page Top](#)

User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)


Why are captured images poor in quality?

- Images captured under fluorescent light may contain light reflections.
- A dark portion in captured images may contain noise.
- The area on and around the built-in camera is soiled. Clean the area. See [Notes on the Built-in Camera \(Built-in camera equipped models\)](#) for more information on how to clean the camera.

 [Go to Page Top](#)



User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

How can I find the physical address (MAC address) of the built-in wireless network interface of my VAIO computer?

- If MAC address filtering of your access point is enabled, register the MAC address of your VAIO computer in the setup screen of the access point. Otherwise, the computer cannot connect to the access point. Open **Command Prompt**, enter "ipconfig /all", and then press the **Enter** key. You can find the physical address (MAC address) in the **Physical Address** field under **Wireless LAN adapter Wi-Fi**. To open **Command Prompt**, see [Searching/Starting Apps, Settings, or Files](#).

 [Go to Page Top](#)

User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

What should I do if I cannot play back movies or audio tracks received via Wi-Fi(R) (Wireless LAN), or their playback is interrupted? Why is the data transfer speed slow?

- Move your VAIO computer away from obstructions, or closer to any access point you may be using.
Connection capability is affected by distance, obstructions, device configuration, radio wave strength/interference, wall materials, running apps, etc.
- If you are using an access point, the device may be temporarily overloaded depending on how many other devices are communicating via the access point. Wait for a while and try again.
- Change the channel setting of your access point. By changing the channel, interference on your wireless network may be reduced and data transfer speed may improve.
If access point channel interference occurs, data transfer speed may be reduced.
- If your access point interferes with other access points, change the access point channel.
Refer to the manual that came with your access point for more information.
- Make sure that a microwave oven is not operating near your Wi-Fi devices. The 2.4 GHz frequency band, on which Wi-Fi operates, is used by various devices and apparatus. If you use a microwave oven while communicating via Wi-Fi, data transfer rate may slow down, communication range may narrow, or communication may be interrupted.

 [Go to Page Top](#)



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security


Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

What should I do if I cannot use the Wi-Fi(R) (Wireless LAN) function?

- Enable the Wi-Fi function.
Open the charms and select the  **Settings** charm.
Select **Change PC settings** in the lower right corner, and select **Wireless** in the left pane.
Turn off **Airplane mode** and change the **Wi-Fi** setting under **Wireless devices** to **On**.
To open the charms, see [Opening the Charms](#).
- To use the Wi-Fi function on your VAIO computer, you need to configure the Wi-Fi settings.
Check the Wi-Fi settings of the computer. See [Starting Wi-Fi\(R\) \(Wireless LAN\) Communications](#) for more information.
- If a connection utility app supplied with a third-party Wi-Fi product is installed, uninstall it.
If a connection utility app is installed, Windows may fail to configure the Wi-Fi settings. Be sure to take a note of your settings, (such as security keys) before uninstalling.

 [Go to Page Top](#)

User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

What should I do if I do not know the SSID or security key for the access point?

- You can find the key in the setting screen of your access point.
Refer to the manual that came with your access point for more information.

 [Go to Page Top](#)



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

What should I do if I cannot connect my VAIO computer to an access point (or the Internet)?

- See [What should I do if I cannot use the Wi-Fi\(R\) \(Wireless LAN\) function?](#).
- Make sure the access point is on.
- Check the access point settings.
In the following settings, your VAIO computer may fail to connect to an access point, or the connection may be unstable.
 - When the access point is set to refuse communication with a device whose SSID is set to "ANY," and the SSID of your VAIO computer or the access point is set to "ANY."
 - When the access point is in stealth mode.
For more information, refer to the manual that came with your access point, or consult your Wi-Fi service provider.
- Make sure your VAIO computer and access point are connected to one another.
See [Starting Wi-Fi\(R\) \(Wireless LAN\) Communications](#) for more information.
- Connection capability is affected by distance, obstructions, device configuration, radio wave strength/interference, wall materials, running apps, etc.
Move your VAIO computer away from obstructions or closer to any access point you may be using.
- Open the charms and select the **Settings** charm and (the network icon).
Check that your access point is displayed.
To open the charms, see [Opening the Charms](#).

[Go to Page Top](#)



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

Why is my BLUETOOTH(R) connection slow?

- Data transfer speed depends on obstructions and/or the distance between the two devices, radio wave quality, and the device configuration or apps in use. Move your VAIO computer and BLUETOOTH device closer to each other.
- If a version of a BLUETOOTH standard employed on the BLUETOOTH device with which you want to communicate is not the same version as the one employed on your VAIO computer, the communication speed may become slower.
- If your VAIO computer is compliant with BLUETOOTH high speed technology and the following two conditions are met, high-speed communications are available. However, some BLUETOOTH profiles do not support high-speed communications.
 - The BLUETOOTH device with which you want to communicate supports BLUETOOTH high speed technology.
 - Both the Wi-Fi(R) (Wireless LAN) and BLUETOOTH functions on the computer are enabled.

[Go to Page Top](#)

User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Why can't I use the BLUETOOTH(R) function when I sign in to my VAIO computer as a user with a standard user account?

- The BLUETOOTH function may not be available to a user with a standard user account on your VAIO computer.
Sign in to the computer as a user with administrative rights.

 [Go to Page Top](#)



User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Why can't I use BLUETOOTH(R) devices when I switch users?

- If you switch users without signing out from your system, BLUETOOTH devices will not work.
Be sure to sign out before switching users.

 [Go to Page Top](#)



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

What should I do if I cannot find the BLUETOOTH(R) device I want to communicate with?

- Shorten the distance between your VAIO computer and the BLUETOOTH device within 33 feet/10 meters.
If the computer is more than 33 feet/10 meters away from the BLUETOOTH device, communication will not be possible.
The computer may not be able to communicate with the BLUETOOTH device even within 33 feet/10 meters due to obstacles between the devices, radio wave quality, ambient environment that includes existence of walls and materials of such walls, or apps in use. In such a case, move the computer away from obstructions or closer to the device.
- Check that the BLUETOOTH function of the device you want to communicate with is on, and the device is not in the power saving mode.
- Check that the BLUETOOTH function of the device you want to communicate with is enabled.
Refer to the manual that came with the device for more information.
- If the device you want to communicate with is already communicating with another BLUETOOTH device, it may not be found or it may not be able to communicate with your VAIO computer.

[Go to Page Top](#)



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security


Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)


What should I do if the BLUETOOTH(R) icon is not displayed in the desktop notification area?

- Make sure the BLUETOOTH function is enabled.
Open the charms and select the  **Settings** charm.
Select **Change PC settings** in the lower right corner, then select **Wireless** in the left pane.
Turn off **Airplane mode** and change the Bluetooth setting under **Wireless devices** to **On**.
To open the charms, see [Opening the Charms](#).
- Check the BLUETOOTH settings.
Open **Control Panel** and select **Hardware and Sound** and **Devices and Printers**.
Right-click the computer icon and select **Bluetooth settings** and the **Show the Bluetooth icon in the notification area** check box.
To open **Control Panel**, see [Opening Control Panel](#).

 [Go to Page Top](#)



User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security



Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

What should I do if other BLUETOOTH(R) devices cannot connect to my VAIO computer?

- See [What should I do if I cannot find the BLUETOOTH\(R\) device I want to communicate with?](#).
- Make sure that the authentication (pairing) between the device and your VAIO computer has been properly performed.
Some BLUETOOTH devices require authentication (pairing) before establishing connection with another device. Perform the authentication process before connecting to such devices.
- Make sure that your VAIO computer allows BLUETOOTH devices to find the computer.
Select  (arrow) in the desktop notification area, right-click  (the BLUETOOTH icon), and select **Open Settings** to open the settings window. Select the **Options** tab and make sure that the **Allow Bluetooth devices to find this computer** check box is selected.
To open the desktop, see [Opening the Desktop](#).

 [Go to Page Top](#)



User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security


Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)


What should I do if I cannot use the BLUETOOTH(R) function?

- Make sure the BLUETOOTH function is enabled.
Open the charms and select the  **Settings** charm.
Select **Change PC settings** in the lower right corner, then select **Wireless** in the left pane.
Turn off **Airplane mode** and change the Bluetooth setting under **Wireless devices** to **On**.
To open the charms, see [Opening the Charms](#).

 [Go to Page Top](#)



User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security


Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)


What should I do if the Enter Onetime Password message appears and Windows does not start after I enter a wrong power-on password three times consecutively?

- Press and hold down the  (Power) button for more than four seconds. If your VAIO computer is equipped with the power indicator, check that it is off. Then, restart the computer and enter the correct password. The password is case-sensitive, so be sure to check letters for the current case before you enter the password.
- If you forget the power-on password, you cannot start your VAIO computer. See [What should I do if I forget the power-on password to start my VAIO computer?](#) for more information.

 [Go to Page Top](#)



User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)


What should I do if I forget the power-on password to start my VAIO computer?

- If you forget the password ([Setting/Changing the Power-on Password](#)), you cannot start your VAIO computer.
 - When you forget your user password:
Enter the machine password to reset the user password at the BIOS setup screen.
 - When you forget your machine password:
The password needs to be reset and a fee will be charged. To reset the password, contact an authorized Sony service/support center.

 [Go to Page Top](#)



User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)


 [Print](#)

What should I do if I forget the Windows password?

- The Windows password is case-sensitive. Check your password and enter again.
- Log on using a user account that has system administrator privileges to reset your password.
 - If you forget all passwords for system administrator accounts, you cannot reset any Windows passwords. You need to perform system recovery. See [About Recovery](#) for more information.

 [Go to Page Top](#)

User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)


 [Print](#)

What should I do if I cannot charge the device connected to the USB port that supports USB charging?

- Make sure that the **USB Charging** setting is enabled. See [Charging a USB Device](#) for more information.

 [Go to Page Top](#)

User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

Why can't I write data to a memory card?

- Some types of memory cards are equipped with an erasure prevention switch to protect data from unintentional erasure or overwriting. Make sure the erasure prevention switch is off.

 [Go to Page Top](#)



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security


Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)


What should I do if I cannot use NFC/One-touch functions?

- Bring your NFC/One-touch functions supported device toward your VAIO computer as close as possible.
If the NFC/One-touch functions still do not work, slightly move the device up or down, or separate the device from the computer for about 10 seconds, and then touch the computer with the device again.
- Make sure that NFC/One-touch functions are enabled on the supported device. You may need to change the device settings depending on the device you use. For detailed information, refer to the manual that came with your device.
- Enable NFC/One-touch functions.
Open the charms and select the  **Settings** charm.
Select **Change PC settings** in the lower-right corner, and select **Wireless** in the left pane. Turn off **Airplane mode** and change the **NFC** setting under **Wireless devices** to **On**.
To open the charms, see [Opening the Charms](#).
- Do not bring metal objects other than devices supported with the NFC/One-touch functions close to your VAIO computer.
- Do not touch your VAIO computer with more than one device supported with the NFC/One-touch functions at a time.
- If NFC/One-touch functions still do not work after you perform above operations, restart your VAIO computer.

 [Go to Page Top](#)



User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

What should I do if my game app does not work or it keeps crashing?

- Check the website of the game if there are any patches or updates to download.
- Make sure you have installed the latest video driver.
- On some VAIO computer models, the graphics memory is shared with the system. The optimal graphics performance in such a case is not guaranteed.

 [Go to Page Top](#)



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

Print

What should I do if my VAIO computer becomes unstable (Windows starts)?

- Try the suggestions below:
 - Start **VAIO Care** to search for a solution. See [Keeping Your VAIO Computer in Optimum Condition \(VAIO Care\)](#) for more information.
 - Restore computer system files.
Use the restore point that you created before your VAIO computer becomes unstable. See [Restoring System Files Using the Restore Point when You cannot Start Windows](#) for more information.
 - Uninstall an app or a driver if your VAIO computer has become unstable after you installed the app or the driver.
 - Reinstall the preinstalled apps or drivers on your VAIO computer if such apps or drivers have not been working properly. See [How can I reinstall the original apps and drivers?](#) for more information.
 - Restore your VAIO computer from a system image backup if you have created the backup. Refer to **Windows Help and Support** ([Opening Windows Help and Support](#)) for more information.
 - If the problem persists, follow the instructions in [Refreshing Your VAIO Computer](#) to reinstall the operating system.
If the problem persists after you refresh your VAIO computer, follow the instructions in [Recovering from the Recovery Area](#) to recover the computer.
The computer may not support the refresh function depending on the model you purchased.
 - If you have not yet created Recovery Media, create the Recovery Media. See [Creating Recovery Media](#).
 - Be sure to make a backup copy of your valuable data before recovering your VAIO computer. Refer to **Windows Help and Support** ([Opening Windows Help and Support](#)) for more information.
- Note**
- Recovering your VAIO computer will delete all the data on the built-in storage device.

[Go to Page Top](#)



User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

[Print](#)

What should I do if my VAIO computer becomes unstable (Windows does not start)?

- Try the suggestions below:
 - Restore computer system files.
Use the restore point that you created before your VAIO computer becomes unstable. See [Restoring System Files Using the Restore Point when You cannot Start Windows](#) for more information.
 - Restore your VAIO computer from a system image backup if you have created the backup. Refer to **Windows Help and Support** ([Opening Windows Help and Support](#)) for more information.
Any file you have created or changed after you created the system image backup will not be restored.
You need to back up such a file with **VAIO Care (Rescue Mode): VAIO recovery solutions**. See [Backing Up Your Data when You cannot Start Windows](#) for more information.
- Use **VAIO Hardware Diagnostics** to identify problems on your VAIO computer.
 - With the app, you can check if the computer hardware (a CPU, a memory module, and a built-in storage device) needs to be replaced.
To start **VAIO Hardware Diagnostics**, select **Tools** and **VAIO Hardware Diagnostics** in **VAIO Care (Rescue Mode): VAIO recovery solutions**.
- Follow the instructions in [Recovering from the Recovery Area](#) to recover your VAIO computer.
 - If you have not backed up your data, be sure to make a backup copy of your valuable data using **VAIO Care (Rescue Mode): VAIO recovery solutions** before recovering your VAIO computer. See [Backing Up Your Data when You cannot Start Windows](#) for more information.
If you have a backup created with the Windows backup feature before your VAIO computer becomes unstable, but you have created or changed the file after that, back up such a file with **VAIO Care (Rescue Mode): VAIO recovery solutions**.

Note

- Recovering your VAIO computer will delete all the data on the built-in storage device.

[Go to Page Top](#)



User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)


What should I do if I cannot start/complete the recovery process?

- Disconnect all unnecessary external devices from your VAIO computer.
- Try the suggestions below:
 - Check the condition of Recovery Media. If you are using optical discs, check the discs for dirt or damage. If the discs are not clean, clean them and try recovering your VAIO computer again.
 - If you cannot recover your VAIO computer from the recovery area, restart the computer and recover the computer from the recovery area again, or use Recovery Media.
 - If you cannot recover your VAIO computer using a USB optical drive or USB flash drive, connect the drive to another USB port or to the USB port that is compliant with the USB 2.0 standard (if any). Then, turn off the computer and try recovering it again. See [Recovering from the Recovery Area](#) for more information.
- If the problem persists, visit the VAIO online support website for further assistance.

 [Go to Page Top](#)



User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)


 [Print](#)

What should I do if I cannot create Recovery Media?

- Try the suggestions below:
 - Download and install the latest updates using **VAIO Update**. See [Using VAIO Update](#) for more information.
 - Restart your VAIO computer. And then, try to create Recovery Media again.
 - If an AC adapter is supplied with an external optical disc drive, plug the AC adapter into a power source.
- Try other reliable media.
- If the problem persists, visit the VAIO online support website for further assistance.

 [Go to Page Top](#)

User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)


 [Print](#)

How do I create Recovery Media?

- You can create Recovery Media using **VAIO Care**. See [Creating Recovery Media](#) for more information.

 [Go to Page Top](#)

User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

What should I do if I cannot recover my VAIO computer from the recovery area?

- Recover your VAIO computer from Recovery Media if you have used apps to modify the recovery area, installed a different operating system from the preinstalled one, or formatted the built-in storage device without using **VAIO Care (Rescue Mode): VAIO recovery solutions**.
- If the problem persists, visit the VAIO online support website for further assistance.

 [Go to Page Top](#)

User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)


How can I restore my VAIO computer system to its factory default settings?

- There are two ways to recover your VAIO computer system: [Recovering from Recovery Media](#) and [Recovering from the Recovery Area](#).

 [Go to Page Top](#)



User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

How can I reinstall the original apps and drivers?

- You can restore the preinstalled apps and drivers using **VAIO Care**. To restore them, start **VAIO Care** ([Keeping Your VAIO Computer in Optimum Condition \(VAIO Care\)](#)) and then select **Advanced Tools, Restore and recovery, and Reinstall Applications and Drivers**.

Refer to the help file included with **VAIO Care** for more information.

 [Go to Page Top](#)

User Guide

How to Use

Troubleshooting

Hardware

Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)


What should I do if I cannot print a document?

- Make sure the printer settings are correctly configured.
For information on the printer settings, refer to the manual that came with your printer.
- Make sure your printer is on.
Refer to the manual that came with your printer for more information.
- Make sure the connections between the printer's power cord and AC adapter and between the AC adapter and an AC outlet are securely made.
- Make sure the appropriate printer driver is installed.
When you connect a new printer, you first need to set up the printer driver.
For information on how to set up the printer driver, refer to the manual that came with your printer, or visit the website of the manufacturer.
- Make sure the status of your printer is displayed as online or ready.
Then, make sure the printer settings are correctly configured as instructed in the manual that came with the printer.
- Make sure your printer is set to **Set as Default Printer**.
Refer to **Windows Help and Support** ([Opening Windows Help and Support](#)) for more information.
- Make sure your printer is compatible with Windows installed on your VAIO computer.
- Make sure your printer is connected to your network (LAN).
If the printer is directly connected to the network (LAN), make sure a router or a hub is on.
If the printer is connected to a printer server, make sure an error message is not displayed on the printer server.
- Make sure your app is working properly.
The app may not support your document format. In such a case, your document will not be printed properly.
Contact the app publisher or the manufacturer of your printer.
- Make sure the correct printer port for your printer is selected.
For more information on the printer port settings, refer to the manual that came with the printer, or contact the manufacturer.

 [Go to Page Top](#)



User Guide

 How to Use

 Troubleshooting

Hardware


Apps

Network / Internet

Backup / Recovery

Security

Peripheral Devices

 List of Topics

[Back](#) | [Back to Top](#)

 [Print](#)

What should I do if my VAIO computer does not recognize the USB device?

- Check if the USB device is on and using its own power supply.
 - If you are using a digital camera, check if the battery is charged.
 - If you are using a printer, check if the power cable is connected properly to an AC outlet.
- You may need to install a USB driver for the USB device before connecting the device. Refer to the manual that came with the USB device for more information.
- Try using another USB port on your VAIO computer. The USB driver could be installed to the specific port you used the first time you connected the device.
- USB hubs may prevent the USB device from working because of a power distribution failure. We recommend you connect the device directly to your VAIO computer without a hub.

 [Go to Page Top](#)