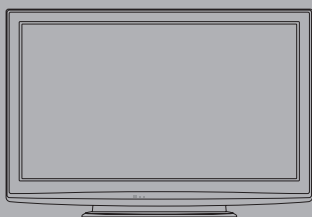


Panasonic®

Model No.

TX-P42S20E
TX-P42S20ES
TX-P46S20E
TX-P50S20E

Operating Instructions Plasma Television



For more detailed instructions, refer to the Operating Instructions on the CD-ROM.
To view the Operating Instructions on the CD-ROM, you need a computer equipped with a CD-ROM drive, and Adobe® Reader® (Version 7.0 or later is recommended) installed on your computer.

Depending on the operating system or settings on your computer, the Operating Instructions may not start automatically. In this case, open the PDF file under the "MANUAL" folder manually to view the instructions.

VIERA

Contents

Be Sure to Read

- Safety Precautions (Warning / Caution) 2
- Notes 3
- Maintenance 3

Quick Start Guide

- Accessories / Options 4
- Identifying Controls 6
- Basic Connection 8
- Auto Setup 10
- How to Use VIERA TOOLS 12
- How to Use Menu Functions 13



Thank you for purchasing this Panasonic product.
Please read these instructions carefully before operating this product and retain them for future reference.
The images shown in this manual are for illustrative purposes only.
Please refer to Pan European Guarantee Card if you need to contact your local Panasonic dealer for assistance.

English



TQB0E0936U1G

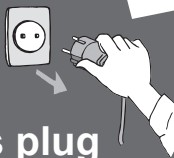
Safety Precautions

Warning

Handling the mains plug and lead

- Insert the mains plug fully into the socket outlet. (If the mains plug is loose, it could generate heat and cause fire.)
- Ensure that the mains plug is easily accessible.
- Ensure the earth pin on the mains plug is securely connected to prevent electrical shock.
 - An apparatus with CLASS I construction shall be connected to a mains socket outlet with a protective earthing connection.
- Do not touch the mains plug with a wet hand. (This may cause electrical shock.)
- Do not use any mains lead other than that provided with this TV. (This may cause fire or electrical shock.)
- Do not damage the mains lead. (A damaged lead may cause fire or electrical shock.)
 - Do not move the TV with the lead plugged in the socket outlet.
 - Do not place a heavy object on the lead or place the lead near a high-temperature object.
 - Do not twist the lead, bend it excessively, or stretch it.
 - Do not pull on the lead. Hold onto the mains plug body when disconnecting lead.
 - Do not use a damaged mains plug or socket outlet.

If you find any abnormality, remove the mains plug immediately!



**AC 220-240 V
50 / 60 Hz**



Power source

- This TV is designed to operate on AC 220-240 V, 50 / 60 Hz.

Do not remove covers and NEVER modify the TV yourself

- Do not remove the rear cover as live parts are accessible when it is removed. There are no user serviceable parts inside. (High-voltage components may cause serious electrical shock.)
- Have the TV checked, adjusted, or repaired at your local Panasonic dealer.

Do not expose to rain or excessive moisture

- To prevent damage which might result in electric shock or fire, do not expose this TV to rain or excessive moisture. This TV must not be exposed to dripping or splashing water and objects filled with liquid, such as vases, must not be placed on top of or above the TV.

Do not expose to direct sunlight and other sources of heat

- Avoid exposing the TV to direct sunlight and other sources of heat.

To prevent the spread of fire, keep candles or other open flames away from this product at all times



Do not insert foreign objects into the TV

- Do not allow any objects to drop into the TV through the air vents. (Fire or electrical shock may result.)

Do not place the TV on sloped or unstable surfaces

- The TV may fall off or tip over.

Use only the dedicated pedestals / mounting equipment

- Using an unapproved pedestal or other fixtures may make the TV unstable, risking injury. Be sure to ask your local Panasonic dealer to perform setup.
- Use approved pedestals (p. 5) / wall-hanging brackets (p. 4).

Do not allow children to handle SD Card

- As with any small object, SD Cards can be swallowed by young children. Please remove SD Card immediately after use and store out of reach of children.

Caution

■ When cleaning the TV, remove the mains plug

- Cleaning an energized TV may cause electrical shock.

■ When the TV is not going to be used for a long period of time, remove the mains plug

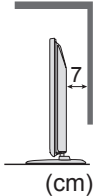
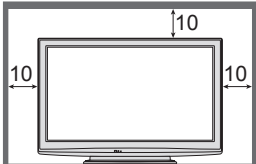
- This TV will still consume some power even in the Off mode, as long as the mains plug is still connected to a live socket outlet.

■ Transport only in upright position

- Transporting the TV with its display panel facing upward or downward may cause damage to the internal circuitry.

■ Allow sufficient space around the TV for radiated heat

Minimum distance



- When using the pedestal, keep the space between the bottom of the TV and the surface where the TV is set.
- In case of using Wall-hanging bracket, follow the manual of it.

■ Do not block the rear air vents

- Blocked ventilation by newspapers, table cloths, curtains, etc. may cause overheating, fire or electrical shock.

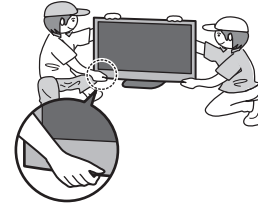
■ Do not expose your ears to excessive volume from the headphones

- Irreversible damage can be caused.

■ Do not apply strong force or impact to the display panel

- This may cause damage resulting in injury.

■ The TV is heavy. Handle the TV by 2 or more people. Support as shown to avoid injury by the TV tipping or falling.



Notes

Do not display a still picture for a long time

This causes the image to remain on the plasma screen ("image retention").

This is not considered a malfunction and is not covered by the warranty.

Typical still images

- Channel number and other logos
- Image displayed in 4:3 mode
- Video game
- Computer image



To prevent image retention, contrast is lowered automatically after a few minutes if no signals are sent or no operations are performed.

■ Auto power standby function

- The TV will automatically go to Standby mode in the following conditions:
 - no signal is received and no operation is performed for 30 minutes in Analogue TV mode
 - "Off Timer" is active in the Setup Menu (p. 16)
 - no operation is performed for the period selected in "Auto Standby" (p. 19)
- This function does not affect Timer Programming.

■ Keep the TV away from these types of equipment

- Electronic equipment
In particular, do not place video equipment near the TV. (Electromagnetic interference may distort images / sound.)
- Equipment with an infrared sensor
This TV also emits infrared rays. (This may affect operation of other equipment.)

Maintenance

First, remove the mains plug from the socket outlet.

Display panel, Cabinet, Pedestal

Regular care:

Gently wipe the surface of the display panel, cabinet, or pedestal by using a soft cloth to clean the dirt or fingerprints.

For stubborn dirt:

Dampen a soft cloth with clean water or diluted neutral detergent (1 part detergent to 100 parts water). Then wring the cloth and wipe the surface. Finally, wipe away all the moisture.

Caution

- Do not use a hard cloth or rub the surface too hard. This may cause scratches on the surface.
- Take care not to subject the TV's surfaces to water or detergent. A liquid inside the TV could lead to product failure.
- Take care not to subject the surfaces to insect repellent, solvent, thinner or other volatile substances. This may degrade surface quality or cause peeling of the paint.
- The surface of the display panel is specially treated and may be easily damaged. Take care not to tap or scratch the surface with your fingernail or other hard objects.
- Do not allow the cabinet and pedestal to make contact with a rubber or PVC substance for a long time. This may degrade surface quality.

Mains plug

Wipe the mains plug with a dry cloth at regular intervals. Moisture and dust may lead to fire or electrical shock.

Accessories / Options

Standard accessories

- ☐ Remote Control
 - N2QAYB000487



Check that you have the accessories and items shown ☒

- ☐ Batteries for the Remote Control (2)
 - R6

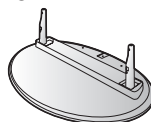


- ☐ Mains Lead
 - ➔ p. 9



- ☐ Operating Instructions

- ☐ Pedestal
 - ➔ p. 5



- ☐ Pan European Guarantee Card

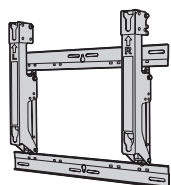
● This product contains possibly dangerous parts (such as plastic bags), that can be breathed in or swallowed by young children accidentally. Keep these parts out of reach of young children.

Optional accessories

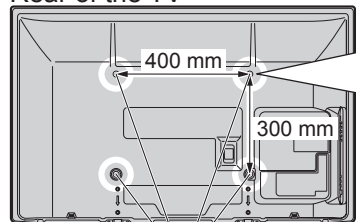
Please contact your nearest Panasonic dealer to purchase the recommended wall-hanging bracket. For additional details, please refer to the wall-hanging bracket installation manual.

Wall-hanging bracket

- TY-WK4P1RW

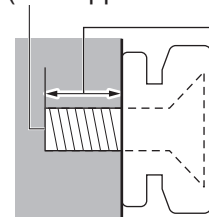


Rear of the TV



Holes for wall-hanging bracket installation

Screw for fixing the TV onto the wall-hanging bracket (not supplied with the TV)



Depth of screw:
minimum 15 mm, maximum 30 mm

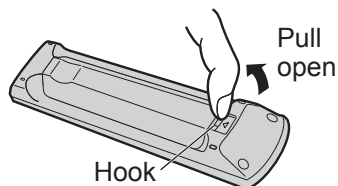
(View from the side)

Warning

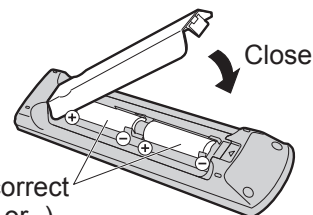
- Using other wall-hanging brackets, or installing a wall-hanging bracket by yourself have the risk of personal injury and product damage. In order to maintain the unit's performance and safety, be absolutely sure to ask your dealer or a licenced contractor to secure the wall-hanging brackets. Any damage caused by installing without a qualified installer will void your warranty.
- Carefully read the instructions accompanying optional accessories, and be absolutely sure to take steps to prevent the TV from falling off.
- Handle the TV carefully during installation since subjecting it to impact or other forces may cause product damage.
- Take care when fixing wall brackets to the wall. Always ensure that there are no electrical cables or pipes in the wall before hanging bracket.
- To prevent fall and injury, remove the TV from its fixed wall position when it is no longer in use.

Installing / removing remote's batteries

1



2



Caution

- Incorrect installation may cause battery leakage and corrosion, resulting in damage to the remote control.
 - Do not mix old and new batteries.
 - Do not mix different battery types (such as alkaline and manganese batteries).
 - Do not use rechargeable (Ni-Cd) batteries.
 - Do not burn or breakup batteries.
- Batteries must not be exposed to excessive heat such as sunshine, fire or the like.
- Do not disassemble or modify the remote control.

Attaching the pedestal

Warning

Do not disassemble or modify the pedestal.

- Otherwise the TV may fall over and become damaged, and personal injury may result.

Caution

Do not use any other TV and displays.

- Otherwise the TV may fall over and become damaged, and personal injury may result.

Do not use the pedestal if it becomes warped or physically damaged.

- If you use the pedestal while it is physically damaged, personal injury may result. Contact your nearest Panasonic dealer immediately.

During set-up, make sure that all screws are securely tightened.

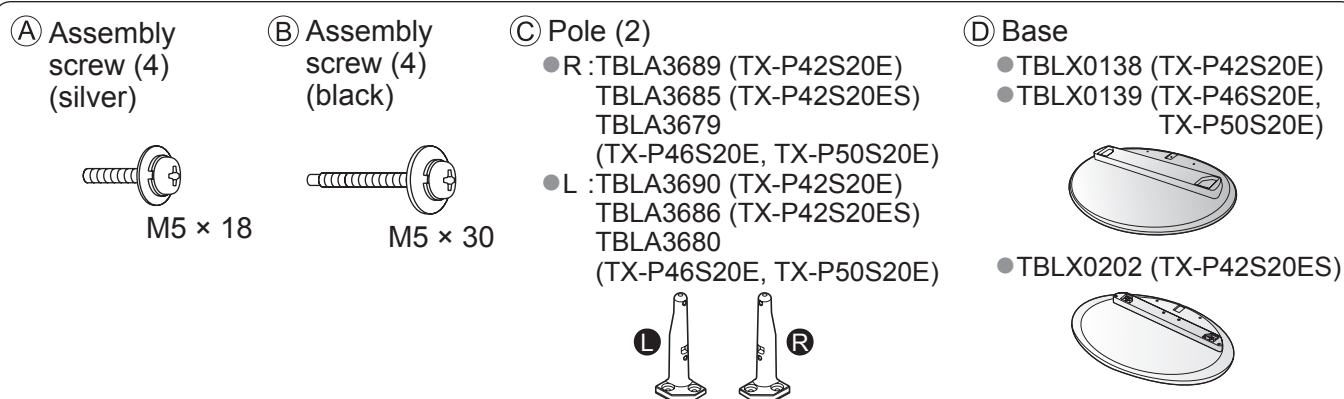
- If insufficient care is taken to ensure screws are properly tightened during assembly, the pedestal will not be strong enough to support the TV, and it might fall over and become damaged, and personal injury may result.

Ensure that the TV does not fall over.

- If the TV is knocked or children climb onto the pedestal with the TV installed, the TV may fall over and personal injury may result.

Two or more people are required to install and remove the TV.

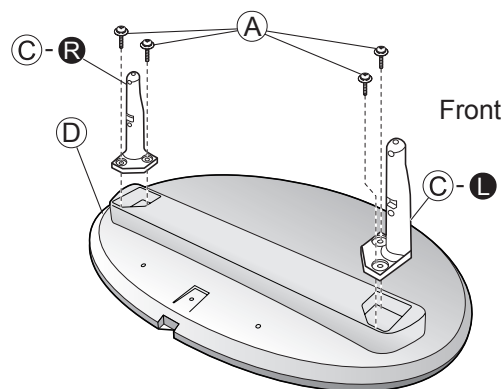
- If two or more people are not present, the TV may be dropped, and personal injury may result.



■ Assembling the pedestal

Use the assembly screws Ⓐ to fasten the left and right poles Ⓒ to the base Ⓓ securely.

- Make sure that the screws are securely tightened.
- Forcing the assembly screws the wrong way will strip the threads.
- "L" or "R" mark is stamped on the bottom of the pole.

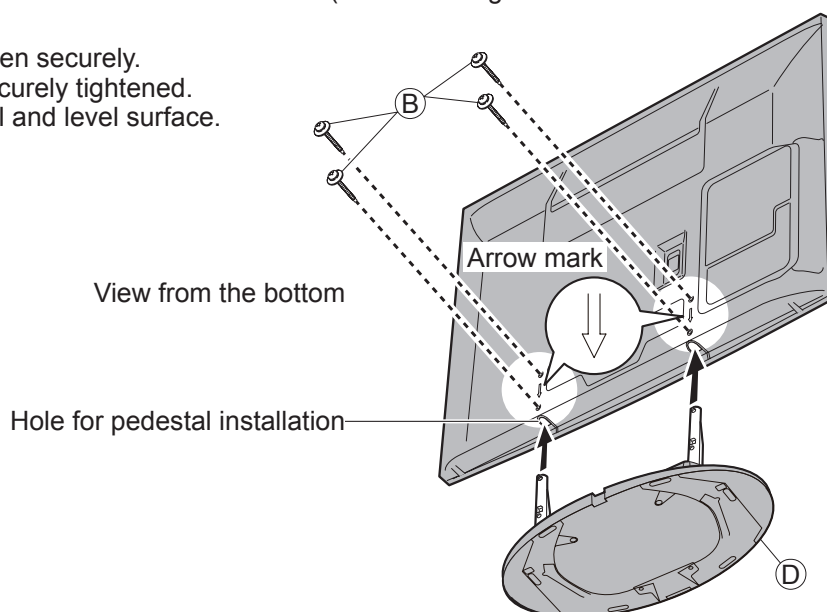


(This is a image of TBLX0138 / TBLX0139)

■ Securing the TV

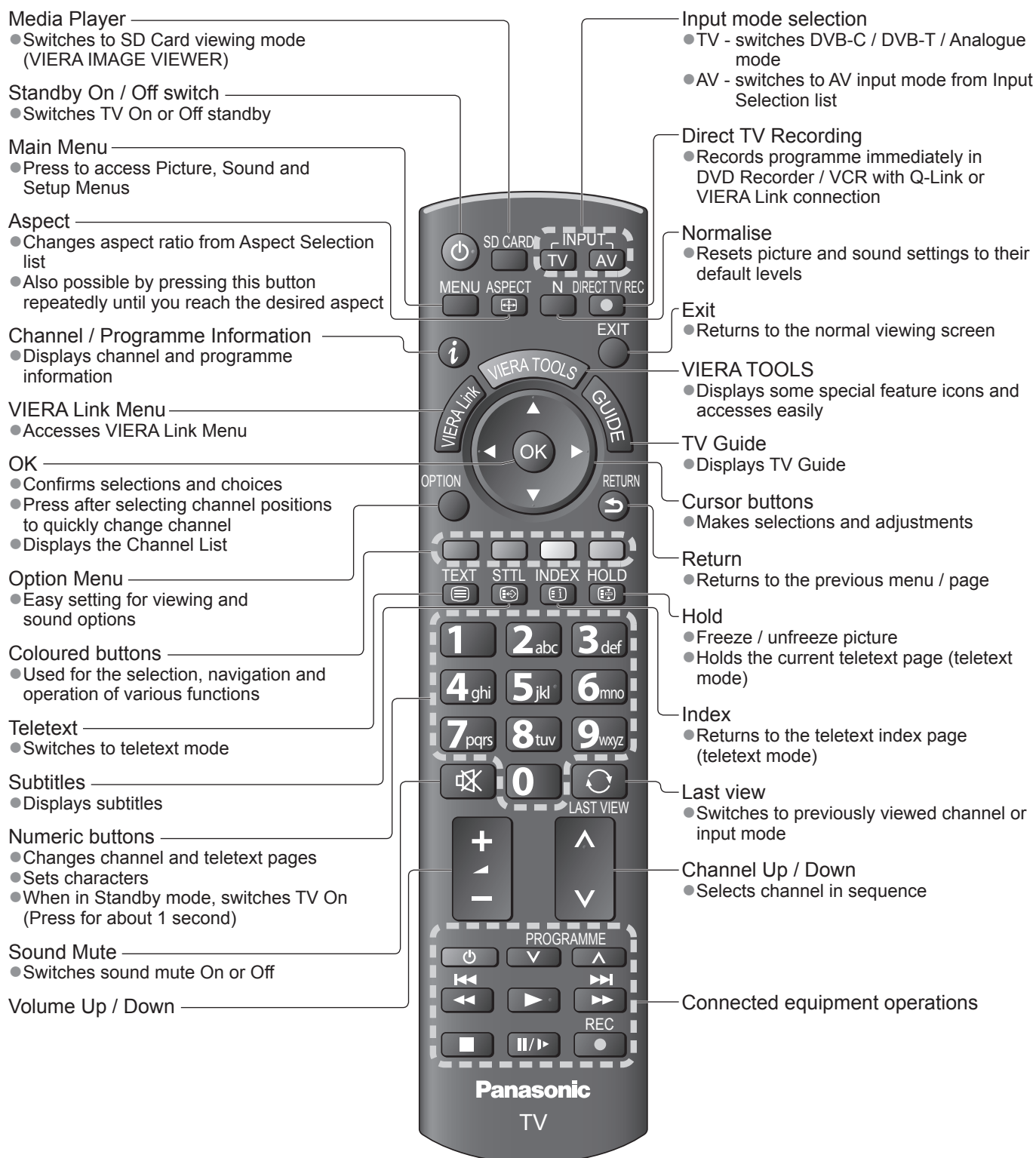
Use the assembly screws Ⓑ to fasten securely.

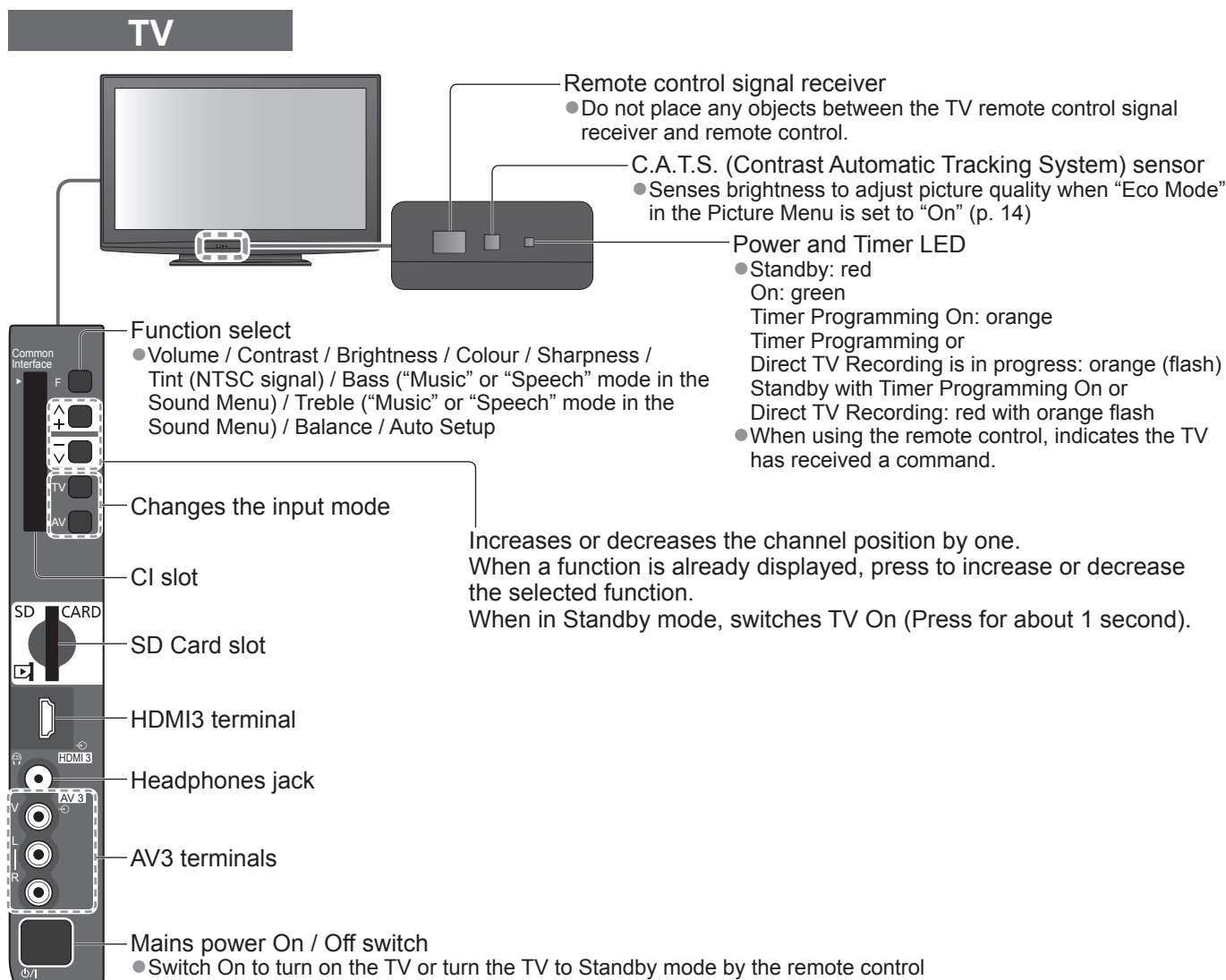
- Make sure that the screws are securely tightened.
- Carry out the work on a horizontal and level surface.



Identifying Controls

Remote Control





Using the On Screen Displays

Many features available on this TV can be accessed via the On Screen Display menu.

How to use remote control



Move the cursor / select the menu item



Access the menu / store settings after adjustments have been made or options have been set



Open the main menu



Move the cursor / adjust levels / select from a range of options



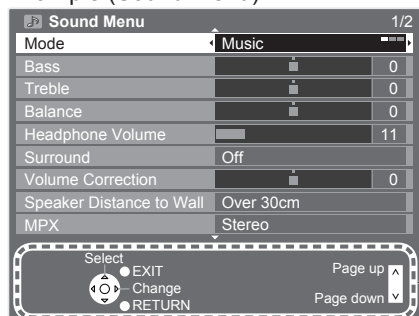
Return to the previous menu



Exit the menu system and return to the normal viewing screen

ON SCREEN HELP Instructions box - Operation guide

Example (Sound Menu):



Operation guide will help you.

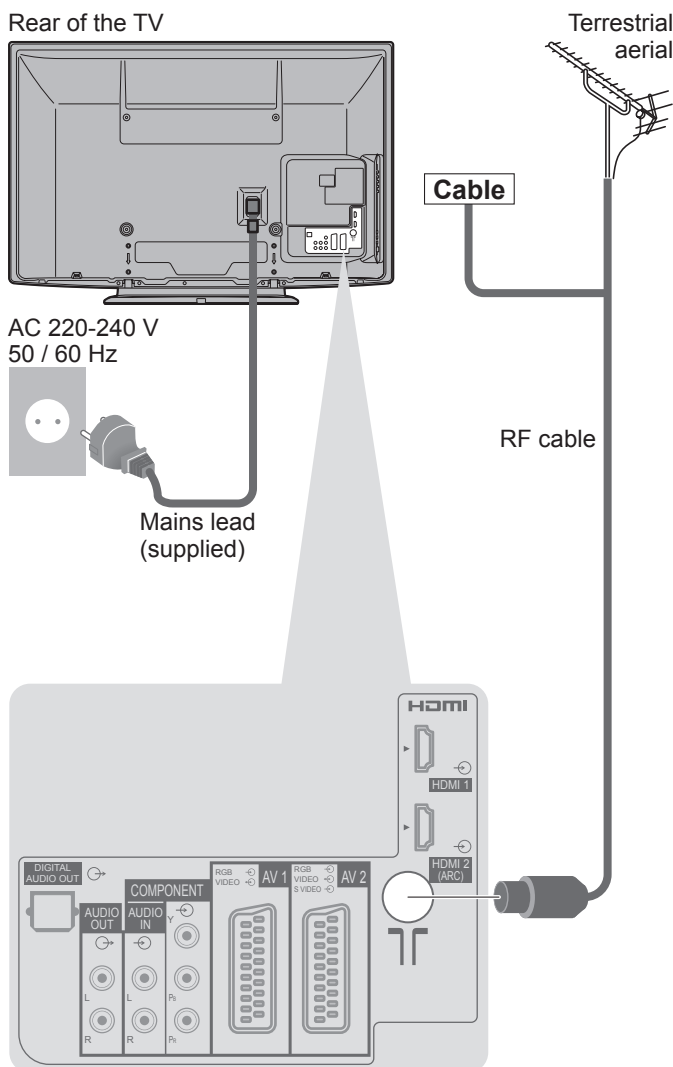
Basic Connection

External equipment and cables shown are not supplied with this TV.

Please ensure that the unit is disconnected from the mains socket before attaching or disconnecting any leads. When disconnecting the mains lead, be absolutely sure to disconnect the mains plug at the socket outlet first.

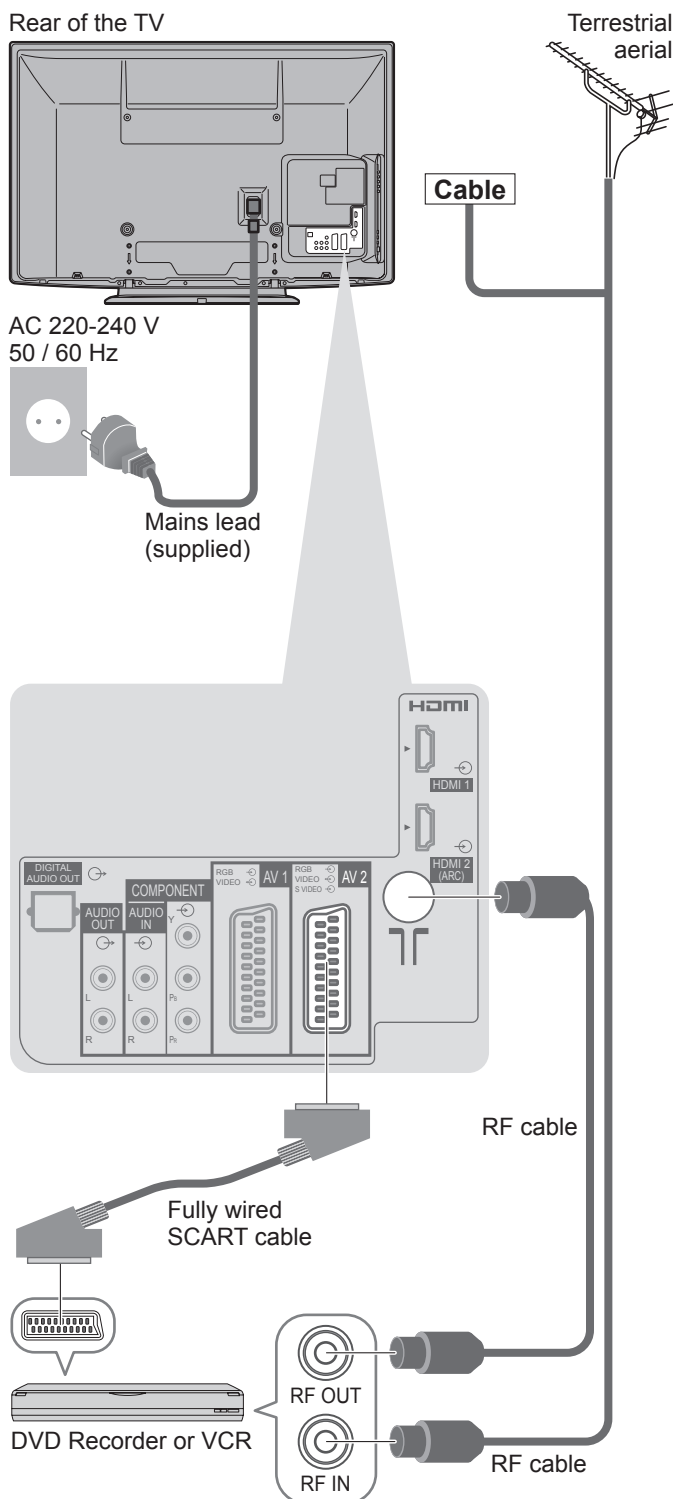
Example 1 Connecting aerial

TV only



Example 2 Connecting DVD Recorder / VCR

TV, DVD Recorder or VCR



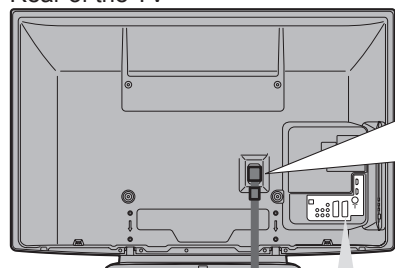
Note

- Connect to the TV's AV1 / AV2 for a DVD Recorder / VCR supporting Q-Link.
- For HDMI-compatible equipment, possible to connect to HDMI terminals (HDMI1 / HDMI2 / HDMI3) by using HDMI cable.
- Please also read the manual of the equipment being connected.

Example 3 Connecting DVD Recorder / VCR and Set top box

TV, DVD Recorder / VCR and Set top box

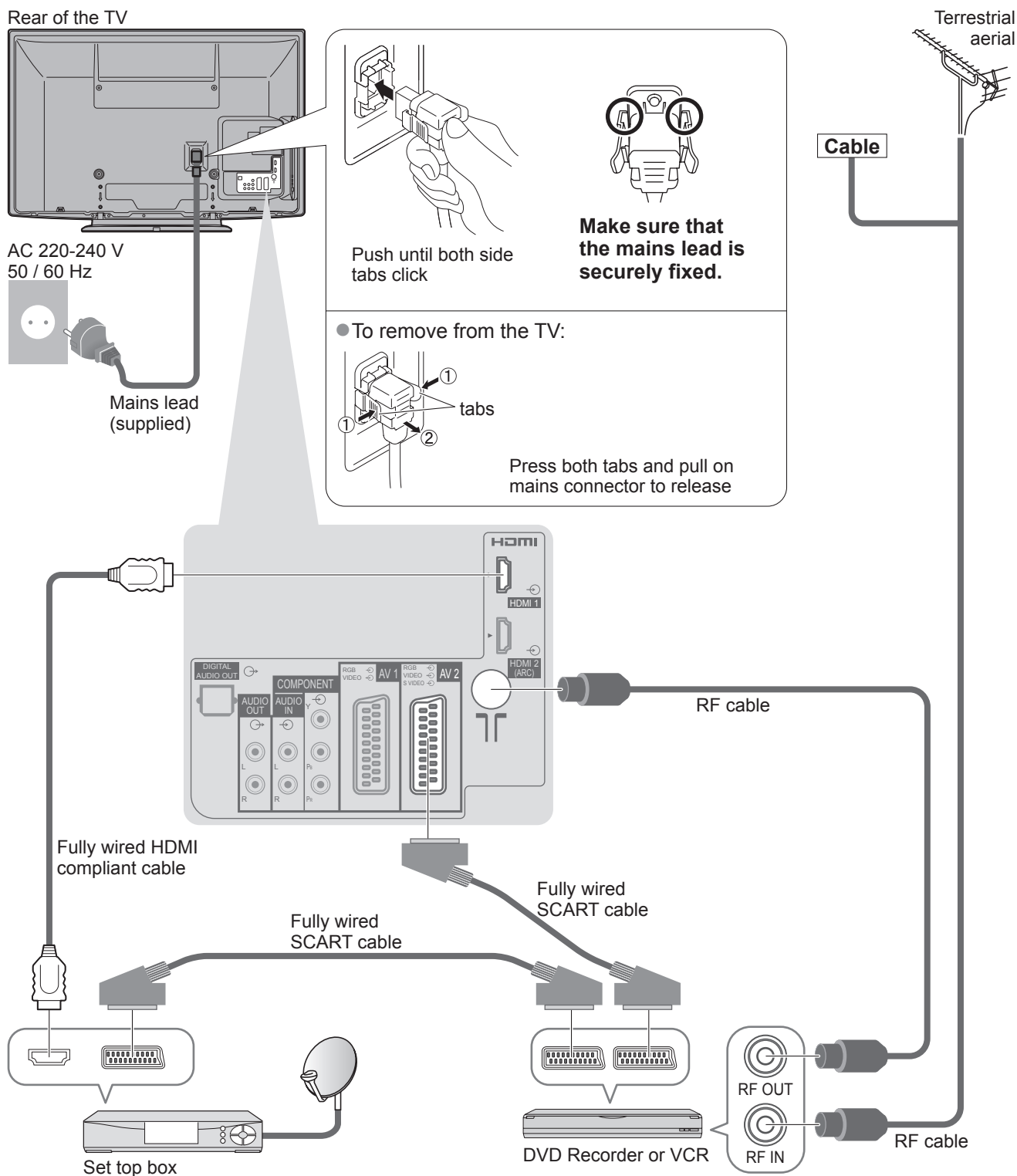
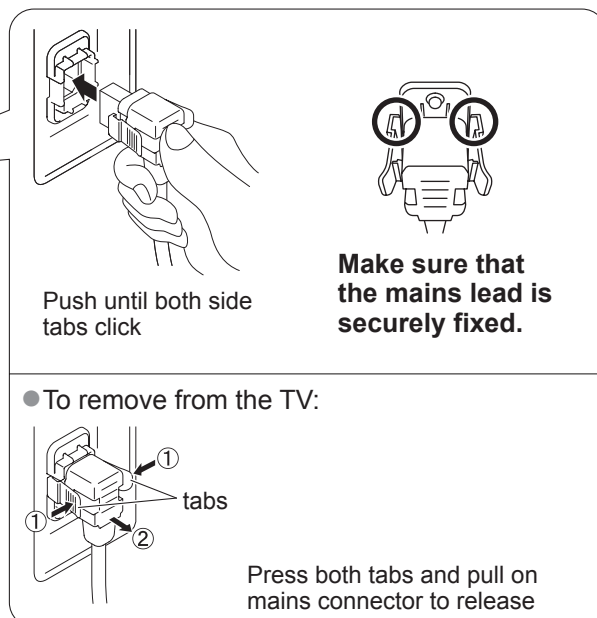
Rear of the TV



AC 220-240 V
50 / 60 Hz



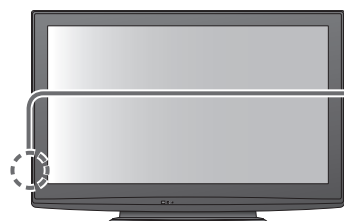
Mains lead
(supplied)



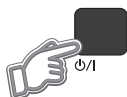
Auto Setup

Search and store TV channels automatically.

- These steps are not necessary if the setup has been completed by your local dealer.
- Please complete connections (p. 8 and p. 9) and settings (if necessary) of the connected equipment before starting Auto Setup. For details of settings for the connected equipment, read the manual of the equipment.

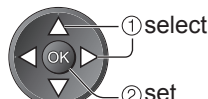


1 Plug the TV into mains socket and switch On (Takes a few seconds to be displayed)



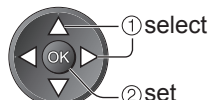
2 Select the language

Menüsprache	Dansk	Polski	Srpski
Deutsch	Svenska	čeština	Hrvatski
English	Norsk	Magyar	Slovenščina
Français	Suomi	Slovenčina	Latviešu
Italiano	Türkçe	Български	eesti keel
Español	Ελληνικά	Română	Lietuvių
Português			
Nederlands			



3 Select your country

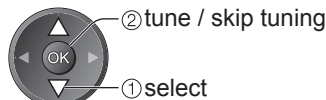
Country	Denmark	Poland
Germany	Sweden	Czech
Austria	Norway	Hungary
France	Finland	Slovakia
Italy	Luxembourg	Slovenia
Spain	Belgium	Estonia
Portugal	Netherlands	Lithuania
Switzerland	Turkey	Others
Malta	Greece	
Andorra		



- Depending on the country you select, you may be required to select the Region. In this case, select your region.

4 Select the mode you want to tune

TV Signal Selection
☒ DVB-C
☒ DVB-T
☒ DVB-T support for HD services
☒ Analogue
Start Auto Setup

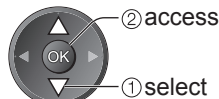


- ☒ : tune (the mode will be tuned and searched for the available channels)
- ☐ : skip tuning

- "DVB-C" may not appear depending on the country you select.

5 Select "Start Auto Setup"

TV Signal Selection
☒ DVB-C
☒ DVB-T
☒ DVB-T support for HD services
☒ Analogue
Start Auto Setup



Auto Setup starts

- Auto Setup will start to search for TV channels and store them. The stored channels and sorted channel order vary depending on the country, area, broadcasting system and conditions of signal reception.
- If tuning has failed, check the connection of the RF cable, and then, follow the on screen instructions.

Auto Setup varies depending on the country you select.

● DVB-C Network Settings

Enter the Home Frequency and Network ID specified by your cable provider.

And then, select "Start Auto Setup".

DVB-C Network Settings	
Frequency	362 MHz
Network ID	41001
Start Auto Setup	

① enter the frequency and network ID

1 2 3
4 5 6
7 8 9
0

Depending on the country you select, "Auto" is displayed and you do not have to enter them. In this case, Home Frequency and Network ID will be set automatically.



③ access

② select "Start Auto Setup"

● DVB-C Auto Setup

DVB-C Auto Setup				
Progress 0% 100%				
This will take about 3 minutes.				
No.	Channel Name	Type	Quality	
1	CBBC Channel	Free TV	10	
2	BBC Radio Wales	Free TV	10	
3	E4	Free TV	10	
Free TV: 3 Play TV: 0 Radio: 0				
Searching				

● DVB-T Auto Setup

DVB-T Auto Setup				
Progress CH 5 60				
This will take about 3 minutes.				
CH	Channel Name	Type	Quality	
62	CBBC Channel	Free TV	10	
62	BBC Radio Wales	Free TV	10	
62	E4	Free TV	10	
62	Cartoon Network	Free TV	10	
Free TV: 4 Play TV: 0 Radio: 0				
Searching				

● Analogue Auto Setup

Analogue Auto Setup				
Scan CH 2 100% 41				
This will take about 3 minutes.				
CH	Channel Name	Type	Quality	
CH 29	BBC1	Free TV	10	
CH 33	BBC1	Free TV	10	
Analogue: 2				
Searching				

Depending on the country you select, the channel selection screen will be displayed after DVB-T Auto Setup if multiple channels have the same logical channel number. Select your preferred channel or exit the screen for automatic selections.

Sending Preset Data

Please wait!

0%

Remote control unavailable

- If Q-Link, VIERA Link or similar technology compatible recorder is connected, channel, language, country / region settings are automatically downloaded to the recorder.
- If downloading has failed, you can download later by the menu item.
➔ "Download" (p. 16)

6

Select "Home"

Please select your viewing environment.

Home Shop



① select

② set

- Select "Home" viewing environment to use in your home environment.

Auto Setup is now complete and your TV is ready for viewing.



■ "Shop" viewing environment (for shop display only)

"Shop" viewing environment is the demonstration mode to explain main features of this TV.

Select "Home" viewing environment to use in your home environment.

- You can return to viewing environment selection screen at the stage of Shop confirmation screen and Automatic Demo Off / On selection screen.

① Return to viewing environment selection screen

Shop	
You have selected shop mode	
RETURN	
Automatic Demo	
Off	On

② Select "Home"

Please select your viewing environment.	
Home	Shop



① select

② set

Auto Setup is complete

- To change viewing environment later on, you will need to initialise all settings by accessing Shipping Condition.
➔ "Shipping Condition" (p. 19)

Note

- If tuning has failed or to retune all channels ➔ "Auto Setup" (p. 17)
- To add the available TV mode later ➔ "Add TV Signal" (p. 17)
- To initialise all settings ➔ "Shipping Condition" (p. 19)
- If you turned the TV Off during Standby mode last time, the TV will be in Standby mode when you turn the TV On with Mains power On / Off switch.

How to Use VIERA TOOLS

You can access some special features easily by using the VIERA TOOLS function.



1 Display icons of the feature



2 Select a feature



① select

② access

3 Follow the operations of each feature

● VIERA Link Control



When two or more compatible equipment are connected, a selection screen will be displayed.
Please select the correct description and access.

● Pause Live TV



● Photo



● Video



■ To return to TV



Note

- If the selected feature is not available, the demonstration to explain how to use it can be displayed. Press the OK button to view the demonstration after selecting the unavailable feature.

How to Use Menu Functions

Various menus allow you to make settings for the picture, sound, and other functions.



1

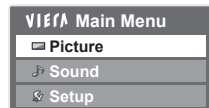
Display the menu



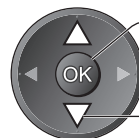
- Displays the functions that can be set (varies according to the input signal)

2

Select the menu



(example: Picture Menu)

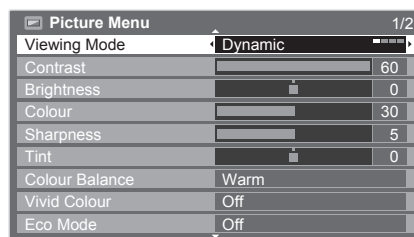


② access

① select

3

Select the item



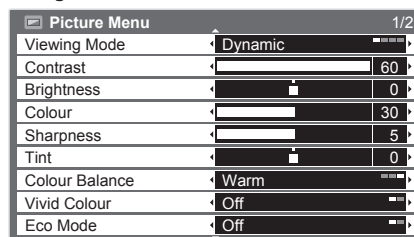
(example: Picture Menu)



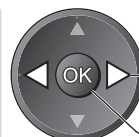
select

4

Adjust or select



(example: Picture Menu)



① change

② store or access
(Required by some functions)

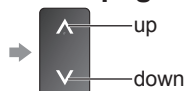
■ To return to TV at any time



■ To return to the previous screen



■ To change menu pages



■ Choose from among alternatives

Number and positions of alternatives



Changed

■ Adjust using the slide bar



Moved

■ Go to the next screen



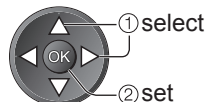
Displays the next screen

■ Enter characters by free input menu

You can enter names or numbers freely for some items.



Set characters one by one



① select

② set

Store



- You can set characters by using numeric buttons.

■ To reset the settings

- To reset the picture settings only
➔ "Reset to Defaults" in the Picture Menu (p. 14)
- To reset the sound settings only
➔ "Reset to Defaults" in the Sound Menu (p. 15)
- To reset the picture and sound settings together
➔ N (Also volume level and aspect mode are reset)
- To initialise all settings
➔ "Shipping Condition" in the Setup Menu (p. 19)

How to Use Menu Functions

■ Menu list

Menu	Item	Adjustments / Configurations (alternatives)
Picture	Viewing Mode	Basic picture mode (Dynamic / Normal / Cinema / True Cinema / Game) In each Viewing Mode and input, Contrast, Brightness, Colour, Sharpness, Tint, Colour Balance, Vivid Colour, Eco Mode, P-NR and 3D-COMB can be adjusted and stored to suit your particular viewing requirement. ● Set for each input signal. Dynamic : Provides enhanced picture contrast and sharpness when viewing in a bright room. Normal : Recommended for viewing under normal ambient room lighting conditions. Cinema : For watching movies in a darkened room with the improved performance of contrast, black and colour reproduction True Cinema : Precisely reproduces the original quality of the image without any revision. Game : Fast response signal specifically to provide suitable images for playing games ● Not valid on TV mode ● A continuous record of time spent using Game mode can be displayed in the top right of the screen. ➔ "Playing Time Display" (p. 18)
	Contrast, Brightness, Colour, Sharpness	Increases or decreases the levels of these options according to your personal preference
	Tint	With an NTSC signal source connected to the TV, the picture hue can be adjusted to suit your taste ● For NTSC signal reception only
	Colour Balance	Allows you to set the overall colour tone of the picture (Cool / Normal / Warm)
	Vivid Colour	Automatically adjusts colours to vivid ones (Off / On)
	Eco Mode	Automatic Brightness Control function Adjusts picture settings automatically dependent on ambient lighting conditions (Off / On)
	P-NR	Picture Noise Reduction Automatically reduces unwanted picture noise and flicker noise in the contoured parts of a picture (Off / Min / Mid / Max)
	3D-COMB	Makes still or slow moving pictures look more vivid (Off / On) ● Occasionally, whilst viewing still or slow moving pictures, colour patterning may be seen. Set to "On" to display sharper and more accurate colours. ● For PAL or NTSC signal reception only ● Not valid on RGB, S-Video, Component, HDMI and SD Card
	Panel	Turns the screen off when you select "Off" (Off / On) ● The sound is active even if the screen turns off. ● Press any buttons to turn the screen on. ● This function is effective in reducing power consumption when listening to a sound without watching the TV screen.
	Reset to Defaults	Press the OK button to reset the present Picture Viewing Mode to the default settings

Menu	Item	Adjustments / Configurations (alternatives)
Sound	Mode	Selects the basic sound mode (Music / Speech / User) ● The selected mode affects all input signals. Music: Improves sound quality for watching music video, etc. Speech: Improves sound quality for watching news, drama, etc. ● In Music and Speech mode, you can adjust "Bass" and "Treble" settings, and those settings will be stored for each mode. User: Adjusts the sounds manually by using the equalizer to suit your favourite sound quality. ● For the User mode, "Equalizer" will appear on the Sound Menu instead of "Bass" and "Treble". Select the "Equalizer" and adjust the frequency. ➡ "Equalizer" (below)
	Bass	Increases or decreases level to enhance or minimise lower, deeper sound output
	Treble	Increases or decreases level to enhance or minimise sharper, higher sound output
	Equalizer	Adjusts the frequency level to suit your favourite sound quality ● This function is available when "Mode" is set to "User". ● Select the frequency and change the frequency level by using the cursor button. ● If you want to enhance the bass sound, raise the level of the lower frequency. If you want to enhance the treble sound, raise the level of the higher frequency. ● To reset the levels of each frequency to the default settings, select the "Reset to Defaults" by using cursor button, and then press the OK button.
	Balance	Adjusts volume level of right and left speakers
	Headphone Volume	Adjusts the volume of the headphones
	Surround	Surround sound settings (Off / V-Audio / V-Audio Surround) V-Audio: Provides a dynamic enhancer of width to simulate improved spatial effects V-Audio Surround: Provides a dynamic enhancer of width and depth to simulate improved spatial effects
	Volume Correction	Adjusts the volume of individual channel or input mode
	Speaker Distance to Wall	Adjusts the low frequency sound (Over 30cm / Up to 30cm) ● If the back space between the TV and wall is over 30 cm, "Over 30cm" is recommended. ● If the back space between the TV and wall is within 30 cm, "Up to 30cm" is recommended.
	MPX	Selects multiplex sound mode (if available) ● Normally: Stereo ● Stereo signal cannot be received: Mono ● M1 / M2: Available while mono signal is transmitted ● Analogue mode only
	Audio Preference	Selects the initial setting for audio tracks (Auto / MPEG) Auto : Automatically selects the audio tracks if programme has more than two tracks. The priority is given in the following order - Dolby Digital Plus, HE-AAC, Dolby Digital, MPEG. MPEG : The priority is given to MPEG as long as the programme contains MPEG audio. ● Dolby Digital Plus and Dolby Digital are the methods of coding digital signals developed by Dolby Laboratories. Apart from stereo (2ch) audio, these signals can be multi-channel audio. ● HE-AAC is a perceptual coding method used to compress digital audio for efficient storage and transmission. ● MPEG is an audio compression method that compresses audio to the smaller size without any considerable loss of audio quality. ● Dolby Digital Plus and HE-AAC are the technologies for HD (High definition) programmes. ● DVB mode only
	SPDIF Selection	SPDIF : A standard audio transfer file format Selects the initial setting for digital audio output signal from DIGITAL AUDIO OUT terminal (Auto / PCM) Auto : Dolby Digital Plus and Dolby Digital are output as Dolby Digital Bitstream. HE-AAC (48 kHz) is output as DTS. MPEG is output as PCM. PCM : Digital output signal is fixed to PCM. ● For DVB mode or Video mode
	MPEG Optical Level	Adjusts the audio level of MPEG output from DIGITAL AUDIO OUT terminal as the initial setting (0 / -2 / -4 / -6 / -8 / -10 / -12dB) ● Normally, MPEG sound is larger comparing with the other types of audio track. ● DVB mode only
	HDMI1 / 2 / 3 Input	Select to fit the input signal (Digital / Analogue) Digital : HDMI cable connection Analogue : HDMI-DVI adapter cable connection ● HDMI input mode only
	SPDIF Delay	Adjusts the delay time of the sound output from DIGITAL AUDIO OUT terminal if the sound does not synchronize the image ● DVB mode only
	Reset to Defaults	Press the OK button to reset the present Sound Mode, Balance, Headphone Volume and Surround to the default settings

- A different menu will be displayed in the mode of SD Card.
- Only available items can be selected.

How to Use Menu Functions

Menu	Item	Adjustments / Configurations (alternatives)	
Setup	Timer Programming	Sets a timer to remind watching or record forthcoming programmes ● DVB mode only	
	Off Timer	Sets the time the TV automatically goes to Standby mode (Off / 15 / 30 / 45 / 60 / 75 / 90 minutes)	
	Link Settings	VIERA Link	Sets to use VIERA Link functions (Off / On)
		Q-Link	Selects which AV terminal is to be used for data communication between this TV and a compatible recorder (AV1 / AV2) ● Select the connected terminal to the recorder even it is not compatible with Q-Link.
		AV1 / AV2 out	Chooses the signal to be transmitted from the TV to Q-Link (TV / AV1 / AV2 / AV3 / Monitor) ● Monitor: Image displayed on screen ● Component and HDMI signals cannot be outputted.
		Power on Link	Sets to use Power on Link function (Off / On)
		Power off Link	Sets to use Power off Link function (Off / On)
		Standby Power Save	Controls the power consumption in Standby mode of the connected equipment to reduce the consumption (Off / On) ● This function is available when “VIERA Link” is set to “On” and “Power off Link” is set to “On”.
		Intelligent Auto Standby	Makes non-watched or non-used connected equipment go into Standby mode to reduce the power consumption (Off / On (With reminder) / On (No reminder)) ● This function is available when “VIERA Link” is set to “On”.
		Download	Downloads channel, language, country / region settings to a Q-Link or VIERA Link compatible equipment connected to the TV ● DVB-C channel setting cannot be downloaded.
	Child Lock	Locks a channel / AV input to prevent access to it	

Menu	Item	Adjustments / Configurations (alternatives)
Setup	DVB-C Tuning Menu	Favourites Edit Creates list of favourite DVB-C channels
		Channel List Skips the unwanted DVB-C channels or edits DVB-C channels
		Auto Setup Automatically sets the DVB-C channels supplied
		Manual Tuning Sets the DVB-C channels manually
		Update Channel List Updates DVB-C Channel List while keeping your settings
		New Channel Message Selects whether to give a notification message when a new DVB-C channel is found (Off / On)
		Signal Condition Checks the DVB-C signal condition
		Attenuator Automatically reduces the DVB-C signal to avoid the interference (Off / On)
		Add TV Signal Adds the TV mode ● This function is available if you skip any modes to tune in “Auto Setup” for first using the TV. ● To operate, refer to the “Auto Setup” operations for first using the TV (p. 10 and p. 11).
	DVB-T Tuning Menu	Favourites Edit Creates list of favourite DVB-T channels
		Channel List Skips the unwanted DVB-T channels or edits DVB-T channels
		Auto Setup Automatically sets the DVB-T channels received in the area
		Manual Tuning Sets the DVB-T channels manually
		Update Channel List Updates DVB-T Channel List while keeping your settings
		Favourite Network Selects your favourite network for each broadcasters (only available in some countries)
		New Channel Message Selects whether to give a notification message when a new DVB-T channel is found (Off / On)
		Signal Condition Checks the DVB-T signal condition
		Add TV Signal Adds the TV mode ● This function is available if you skip any modes to tune in “Auto Setup” for first using the TV. ● To operate, refer to the “Auto Setup” operations for first using the TV (p. 10 and p. 11).
	Analogue Tuning Menu	Channel List Skips the unwanted Analogue channels or edits Analogue channels
		Auto Setup Automatically sets the Analogue channels received in the area
		Manual Tuning Sets the Analogue channels manually
		Add TV Signal Adds the TV mode ● This function is available if you skip any modes to tune in “Auto Setup” for first using the TV. ● To operate, refer to the “Auto Setup” operations for first using the TV (p. 10 and p. 11).

● A different menu will be displayed in the mode of SD Card.

● Only available items can be selected.

How to Use Menu Functions

Menu	Item	Adjustments / Configurations (alternatives)
Setup	Language	OSD Language Changes language for on screen displays
		Preferred Audio 1 / 2 Selects the first and second preferred language for DVB multi audio (depending on the broadcaster)
		Preferred Subtitles 1 / 2 Selects the first and second preferred language for DVB subtitles (depending on the broadcaster)
		Preferred Teletext Selects the preferred language for DVB teletext service (depending on the broadcaster)
	Display Settings	Preferred Subtitle Type Selects the preferred subtitle type (Standard / Hard of Hearing) ●“Hard of Hearing” provides aids in understanding and enjoyment with DVB subtitles (depending on the broadcaster). ●“Preferred Subtitles 1 / 2” in “Language” are given priority.
		Teletext Teletext display mode (TOP (FLOF) / List)
		Teletext Character Set Selects teletext language (West / East1 / East2) ●West: English, French, German, Greek, Italian, Spanish, Swedish, Turkish, etc. ●East1: Czech, English, Estonian, Lettish, Rumanian, Russian, Ukrainian, etc. ●East2: Czech, Hungarian, Lettish, Polish, Rumanian, etc.
		Side Panel Increases the brightness of the side panel (Off / Low / Mid / High) ●The recommended setting is “High” to prevent panel “image retention”.
		Default Guide Selects the default TV Guide type when the GUIDE button is pressed (TV Guide / Channel List) TV Guide : Electronic Programme Guide (EPG) is available. Channel List: EPG is not available and the channel list will appear instead of it.
		Input Labels Labels or skips each input terminal
		Banner Display Timeout Sets how long the Information banner stays on screen (0 (No display) / 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 seconds)
		Playing Time Display Set to “On” to display a continuous record of time spent using Game mode every 30 mins (Off / On) ●This function is available when “Game” is selected in “Viewing Mode” (p. 14).
		Radio Mode Sets the timer for turning off the screen automatically when a radio channel is selected (Off / 5 / 10 / 15 / 20 seconds) ●The sound is active even if the screen turns off. ●Press any buttons to turn the screen on. ●This function is effective in reducing power consumption when listening to a radio channel.
	Common Interface Uses include to watch pay-TV	

Menu	Item		Adjustments / Configurations (alternatives)	
Setup	System Menu	Shipping Condition	Resets all settings, for example, when moving house	
		System Update	Downloads new software to TV	
		Software Licence	Displays the software licence information	
		System Information	Displays the system information of this TV	
	Other Settings	AV Colour System		Selects optional colour system based on video signals in AV mode (Auto / PAL / SECAM / M.NTSC / NTSC)
		GUIDE Plus+ Settings	Update	Performs the update of the GUIDE Plus+ schedule and advertising informations for the GUIDE Plus+ system
			Postcode	Sets your postcode to display advertisements in the GUIDE Plus+ system
			System Information	Displays the system information of the GUIDE Plus+ system
		Intelligent Frame Creation		Automatically compensates the picture frame rate and removes juddering movements to make the images smooth and clear (Off / On) ● This function is not available for selection (default to “Off”) when “Viewing Mode” is set to “Game”.
		24p Playback Plus		Automatically compensates the picture frame rate to make the 24p source movie images smooth (Off / On) ● This is available only for 24p signal input and displayed instead of “Intelligent Frame Creation”. ● This function is not available for selection (default to “Off”) when “Viewing Mode” is set to “Game”.
		Auto Standby		Sets the time the TV automatically goes to Standby mode when no operation is performed for the selected times (Off / 2 / 4 hours) ● Starting Timer Programming automatically does not affect this function. ● Automatic input switching with the connected equipment affects this function and time-count will be reset. ● The notification message will appear 3 minutes before going to Standby mode.
		Power Save		Reduces brightness of picture to economise on power consumption (Off / On)
		16:9 Overscan		Selects the screen area displaying the image (Off / On) On : Enlarged the image to hide the edge of the image. Off : Displayed the image in the original size. ● Set to “On” if noise is generated on the edge of the screen. ● This function is available when aspect is set to Auto (16:9 signal only) or 16:9. ● This function can be memorized separately for SD (Standard definition) and HD (High definition) signals.
		Time Zone		Adjusts the time data ● The time data will be corrected based on GMT. ● Set to “Auto” to adjust the time automatically according to your area.
DVI Input Setting		Changes the black level in the image for HDMI input mode with DVI input signal manually (Normal / Full) ● When the DVI input signal from the external equipment, especially from PC, is displayed, the black level may not be suitable. In this case, select “Full”. ● The black level for HDMI input signal will be adjusted automatically.		

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Information for Users on Collection and Disposal of Old Equipment and used Batteries



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste. For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/EC.

By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.



For business users in the European Union

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

[Information on Disposal in other Countries outside the European Union]

These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.



Note for the battery symbol (bottom two symbol examples):

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

Cd

	TX-P42S20E TX-P42S20ES	TX-P46S20E	TX-P50S20E
Power Source	AC 220-240 V, 50 / 60 Hz		
Rated Power Consumption	275 W	285 W	320 W
On mode Average Power Consumption (based on IEC 62087 Ed.2) (measurement method)	117 W	136 W	158 W
Standby Power Consumption	0.40 W 15.00 W (With monitor out recording)		

- This equipment complies with the EMC standards listed below.
EN55013, EN61000-3-2, EN61000-3-3, EN55020

Notice for DVB functions

This TV is designed to meet the standards (current as of August, 2009) of DVB-T (MPEG2 and MPEG4-AVC(H.264)) digital terrestrial services and DVB-C (MPEG2 and MPEG4-AVC(H.264)) digital cable services.

Consult your local dealer for availability of DVB-T services in your area.

Consult your cable service provider for availability of DVB-C services with this TV.

- This TV may not work correctly with the signal which does not meet the standards of DVB-T or DVB-C.
- Not all the features are available depending on the country, area, broadcaster and service provider.
- Not all CI modules work properly with this TV. Consult your service provider about the available CI module.
- This TV may not work correctly with CI module that is not approved by the service provider.
- Additional fees may be charged depending on the service provider.
- The compatibility with future DVB services is not guaranteed.
- Check the latest information on the available services at the following website. (English only)
<http://panasonic.jp/support/global/cs/>

Customer's Record

The model number and serial number of this product may be found on its rear panel. You should note this serial number in the space provided below and retain this book, plus your purchase receipt, as a permanent record of your purchase to aid in identification in the event of theft or loss, and for Warranty Service purposes.

Model Number

Serial Number

Panasonic Corporation

M0110-1020

Web Site : <http://panasonic.net>

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