

User manual

S19D300HY S19D340HY S19D300NY S20D300BY S20D300H S20D340H S20D300HY S20D340HY S22D300BY S22D300HY S22D340HY S22D300NY S24D300BL S24D300H S24D340H S24D300HL S24D340HL

The color and the appearance may differ depending on the product, and the specifications are subject to change without prior notice to improve the performance.

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Copyright

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- An administration fee may be charged if either
 (a) an engineer is called out at your request and there is no defect in the product. (i.e. where you have failed to read this user manual)
 (b) you bring the unit to a repair center and there is no defect in the product.
 - (i.e. where you have failed to read this user manual)
- The amount of such administration charge will be advised to you before any work or home visit is carried out.

Icons used in this manual

Image: The following images are for reference only. Real-life situations may
differ from what is shown in the images.

Cleaning

Exercise care when cleaning as the panel and exterior of advanced LCDs are easily scratched.

Take the following steps when cleaning.



- 1. Power off the monitor and computer.
- 2. Disconnect the power cord from the monitor.

3. Wipe the monitor with a clean, soft and dry cloth.



Hold the power cable by the plug and do not touch the cable with wet hands. Otherwise, an electric shock may result.



- Do not apply a cleaning agent that contains alcohol, solvent, or surfactant to the monitor.



Do not spray water or detergent directly on the product.



4. Wet a soft and dry cloth in water and wring thoroughly to clean the exterior of the monitor.



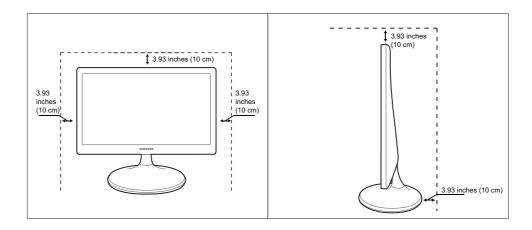
- 5. Connect the power cord to the product after cleaning the product.
- 6. Power on the monitor and computer.

Securing the Installation Space

Ensure some space around the product for ventilation. An internal temperature rise may cause fire and damage the product. Be sure to allow the amount of space as shown below or greater when installing the product.



The exterior may differ depending on the product.



Precautions for storage



Be sure to contact Samsung Customer Service Center (page 105) if the inside of the monitor needs cleaning. (Service fee will be charged.)

Safety Precautions

Caution RISK OF ELECTRIC SHOCK DO NOT OPEN Caution: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER ALL SERVICING TO QUALIFIED PERSONNEL.



This symbol indicates that high voltage is present inside. It is dangerous to make any kind of contact with any internal part of this product.

This symbol alerts you that important literature concerning operation and maintenance has been included with this product.

Symbols for safety precautions

Warning	A serious or fatal injury may result if instructions are not followed.
Caution	Personal injury or damage to properties may result if instructions are not followed.
\otimes	Activities marked by this symbol are prohibited.
	Instructions marked by this symbol must be followed.

Electricity and Safety

The following images are for reference only. Real-life situations may differ from what is shown in the images.

Warning



Do not use a damaged power cord or plug, or a loose power socket.

An electric shock or fire may result.



Do not plug many products into the same power socket.

Otherwise, the socket may overheat and cause a fire.



Do not touch the power plug with wet hands.

Otherwise, an electric shock may result.



Insert the power plug all the way in so it is not loose.

An unstable connection may cause a fire.



Connect the power plug to a grounded power socket (type 1 insulated devices only).

An electric shock or injury may result.



Do not bend or pull the power cord with force. Do not weigh the power cord down with a heavy object.

A damaged power cord may cause an electric shock or fire.

Do not place the power cord or product near heat sources.

An electric shock or fire may result.



Remove foreign substances such as dust around the plug pins and power socket with a dry cloth.

Otherwise, a fire may result.

Caution



Do not unplug the power cord when the product is in use.

The product may become damaged by an electric shock.



Do not use the power cord for products other than authorized products supplied by Samsung.

• An electric shock or fire may result.



- Keep the power socket where the power cord is connected unobstructed.
- If any problem occurs in the product, unplug the power cable to completely cut the power to the product.

Power to the product cannot be completely cut off with the power button.

Hold the plug when disconnecting the power cord from the power socket.



An electric shock or fire may result.

Installation and Safety

🚹 Warning



DO NOT PLACE CANDLES, INSECT REPELLANTS OR CIGARETTES ON TOP OF THE PRODUCT. DO NOT INSTALL THE PRODUCT NEAR HEAT SOURCES.

• Otherwise, a fire may result.



Avoid installing the product in a narrow space with bad ventilation, such as a bookshelf or wall closet.

Otherwise, a fire may result due to an increased internal temperature.



Keep the plastic packaging bag for the product in a place that cannot be reached by children.

Children may suffocate.



Do not install the product on an unstable or vibrating surface (insecure shelf, sloped surface, etc.).

- The product may fall and break or cause a personal injury.
- Using the product in an area with excess vibration may damage the product or cause a fire.



Do not install the product in a vehicle or a place exposed to dust, moisture (water drips, etc.), oil, or smoke.



An electric shock or fire may result.



Do not expose the product to direct sunlight, heat, or a hot object such as a stove.

Otherwise, the product lifespan may be reduced, or a fire may result.

Do not install the product within the reach of young children.

The product may fall and injure children.



Edible oil, such as soybean oil, can damage or deform the product. Do not install the product in a kitchen or near a kitchen counter.



Take care not to drop the product when moving it.

Otherwise, product failure or personal injury may result.



Do not set down the product on its front.

The screen may become damaged.



When installing the product on a cabinet or shelf, make sure that the bottom edge of the front of the product is not protruding.

- The product may fall and break or cause a personal injury.
- Install the product only on cabinets or shelves of the right size.



Put down the product carefully.

The product may fall and break or cause a personal injury.



Installing the product in an unusual place (a place exposed to a lot of fine dust, chemical substances, extreme temperatures or a significant presence of moisture, or a place where the product will operate continuously for an extended period of time) may seriously affect its performance.

Be sure to consult Samsung Customer Service Center (page 105) before installation if you want to install the product at such a place.

Operation





High voltage runs through the product. Do not attempt to disassemble, repair, or modify the product on your own.

- An electric shock or fire may result.
- Contact Samsung Customer Service Center (page 105) for repair.



Before moving the product, turn off the power switch and disconnect the power cable and all other connected cables.

Otherwise, the power cord may be damaged and a fire or electric shock may result.



If the product generates a strange noise, a burning smell, or smoke, remove the power cord immediately and contact Samsung Customer Service Center (page 105).

An electric shock or fire may result.



Do not let children hang from the product or climb on top of it.

• The product may fall, and your child may become injured or seriously harmed.



If the product falls or the exterior is damaged, power off the product, remove the power cord, and contact Samsung Customer Service Center (page 105).

• Otherwise, an electric shock or fire may result.



Do not put a heavy object, toy, or sweets on top of the product.

• The product or heavy objects may fall as children try to reach for the toy or sweets resulting in a serious injury.



During a lightning or thunderstorm, power off the product and remove the power cable.

• An electric shock or fire may result.



Do not drop objects on the product or apply impact.

An electric shock or fire may result.



Do not move the product by pulling the power cord or any cable.

• Otherwise, the power cable may be damaged and product failure, an electric shock or fire may result.



If a gas leakage is found, do not touch the product or power plug. Also, ventilate the area immediately.



Do not lift or move the product by the power cord or any cable.



• Otherwise, the power cable may be damaged and product failure, an electric shock or fire may result.



Do not use or keep combustible spray or an inflammable substance near the product.

An explosion or fire may result.



Ensure the vents are not blocked by tablecloths or curtains.

Otherwise, a fire may result from an increased internal temperature.



Do not insert a metallic object (a chopstick, coin, hair pin, etc.) or inflammable object (paper, match, etc.) into the vent or ports of the product.

- If water or any foreign substance enters the product, be sure to power off the product, remove the power cord, and contact Samsung Customer Service Center (page 105).
- Product failure, an electric shock or fire may result.



Do not place objects containing liquid (vases, pots, bottles, etc) or metallic objects on top of the product.

- If water or any foreign substance enters the product, be sure to power off the product, remove the power cord, and contact Samsung Customer Service Center (page 105).
- Product failure, an electric shock or fire may result.

Caution



Leaving the screen fixed on a stationary image for an extended period of time may cause afterimage burn-in or defective pixels.

If you are not going to use the product for an extended period of time, activate power-saving mode or a moving-picture screen saver.



Disconnect the power cord from the power socket if you do not plan on using the product for an extended period of time (vacation, etc).

• Otherwise, a fire may result from accumulated dust, overheating, an electric shock, or electric leakage.

Your eyesight may deteriorate.



Do not put DC power adapters together.

• Otherwise, a fire may result.

Remove the plastic bag from the DC power adapter before you use it.

Use the product at the recommended resolution and frequency.



Otherwise, a fire may result.



Do not let water enter the DC power device or get the device wet.

- An electric shock or fire may result.
- Avoid using the product outdoors where it can be exposed to rain or snow.
- Be careful not to get the DC power adapter wet when you wash the floor.

Do not put the DC power adapter near to any heating apparatus.



Otherwise, a fire may result.



Keep the DC power adapter in a well-ventilated area.



Looking at the screen too close for an extended period of time can deteriorate your eyesight.



Do not hold the monitor upside-down or move it by holding the stand.

• The product may fall and break or cause a personal injury.



Do not use humidifiers or stoves around the product.

• An electric shock or fire may result.

Rest your eyes for more than 5 minutes for every 1 hour of product use.



Eye fatigue will be relieved.



Do not touch the screen when the product has been turned on for an extended period of time as it will become hot.



Store the small accessories used with the product out of reach of children.



Exercise caution when adjusting the product angle or stand height.

- Otherwise, children's fingers or hands may become stuck and injured.
- Tilting the product excessively may cause it to fall and result in personal injury.



Do not place heavy objects on the product.

Product failure or personal injure may result.

Correct posture to use the product



Use the product in the correct posture as follows:

- Straighten your back.
- Allow a distance of 45 to 50 cm between your eye and the screen, and look slightly downward at the screen.

Keep your eyes directly in front of the screen.

- Adjust the angle so light does not reflect on the screen.
- Keep your forearms perpendicular to your upper arms and level with the back of your hands.
- Keep your elbows at about a right angle.
- Adjust the height of the product so you can keep your knees bent at 90 degrees or more, your heels attached to the floor, and your arms lower than your heart.

1.1 Checking the Contents

1.1.1 Checking the Components

- Contact the dealer from whom you purchased the product if any item is missing.
 - The appearance of the components and items sold separately may differ from the image shown.

Components



Quick setup guide



DC power adapter (Integrated) (optional)



D-SUB cable (optional)



HDMI-DVI cable (optional)

Components may vary depending on the country.



Warranty card (Not available in some locations)



DC power adapter (Detachable) (optional)



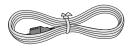
DVI cable (optional)



Stand base



User manual (optional)



Power cable (Only provided with the detachable DC power adapter.)

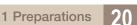


HDMI cable (optional)



Stand neck





1.2 Parts

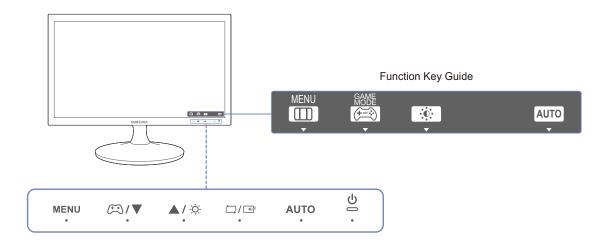
1.2.1 Frontal Button



The color and shape of parts may differ from what is shown.

Specifications are subject to change without notice to improve quality.

S19D300NY / S22D300NY

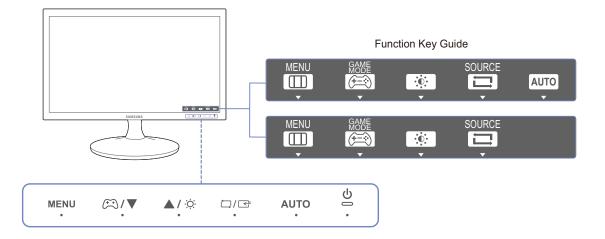


Icons	Description		
MENU	 Open or close the onscreen display (OSD) menu, or return to the parent menu. OSD control lock: Maintain the current settings, or lock the OSD control to prevent unintended changes to settings. Enable: To lock the OSD control, press and hold the [MENU] button for 10 seconds. Disable: To unlock the OSD control, press and hold the [MENU] button for more than 10 seconds. If the OSD control is locked, Brightness and Contrast can be adjusted. Game Mode is available. INFORMATION can be viewed. 		
(F.S.)	 Press to enable or disable Game Mode. The items below are not available if the Game Mode function is enable. PICTURE → Contrast, Sharpness, SAMSUNGBright, SAMSUNGUpscale COLOR SETUP&RESET → Eco Saving 		

Icons	Description		
▲/▼	Move to the upper or lower menu or adjust the value for an option on the OSD menu.		
- Ċ	Use this button to control the brightness and contrast of the screen.		
다/대	Confirm a menu selection.		
	Press the [AUTO] button to automatically adjust the screen settings.		
AUTO	Changing the resolution in Display Properties will activate the Auto Adjustment function.		
Ċ	Turn the screen on or off.		
	When a control button on the product is pressed, the Function Key Guide will be displayed before the onscreen menu opens. (The guide shows the function of the button pressed.)		
	To access the onscreen menu when the guide is displayed, press the corresponding button again.		
Function Key Guide	The Function Key Guide may vary depending on the function or product model.		
	Refer to the actual product.		
	 The function buttons page shows if Game Mode is enabled. [(==)]: Off [(+=>)]: On 		



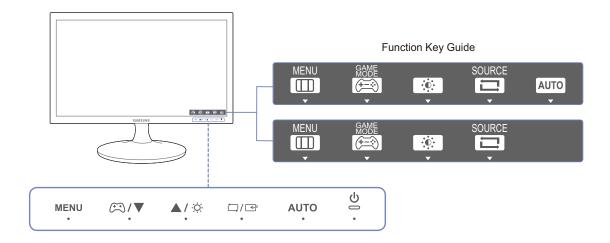
S20D300BY / S22D300BY / S24D300BL



Icons	Description
	Open or close the onscreen display (OSD) menu, or return to the parent menu.
	OSD control lock: Maintain the current settings, or lock the OSD control to prevent unintended changes to settings.
	• Enable: To lock the OSD control, press and hold the [MENU] button for 10 seconds.
MENU	 Disable: To unlock the OSD control, press and hold the [MENU] button for more than 10 seconds.
	If the OSD control is locked, Brightness and Contrast can be adjusted. Game Mode is available. INFORMATION can be viewed.
	Press to enable or disable Game Mode.
Æ	 The items below are not available if the Game Mode function is enable. PICTURE → Contrast, <u>Sharpness</u>, <u>SAMSUNG</u>Bright, <u>SAMSUNG</u>Upscale COLOR SETUP&RESET → <u>Eco Saving</u>
▲/▼	Move to the upper or lower menu or adjust the value for an option on the OSD menu.
-;ċ;-	Use this button to control the brightness and contrast of the screen.

Icons	Description		
	Confirm a menu selection.		
다./ 군	Pressing the [☐/ⓒ] button when the OSD menu is not displayed will change the input source (Analog/DVI). If you power on the product or change the input source by pressing the [☐/ⓒ] button, a message that shows the changed input source will appear at the top left corner of the screen.		
AUTO	 Press the [AUTO] button to automatically adjust the screen settings. Changing the resolution in Display Properties will activate the Auto Adjustment function. Available only in Analog mode. 		
Q	Turn the screen on or off.		
	When a control button on the product is pressed, the Function Key Guide will be displayed before the onscreen menu opens.(The guide shows the function of the button pressed.)To access the onscreen menu when the guide is displayed, press the		
Function Key Guide	corresponding button again.		
	The Function Key Guide may vary depending on the function or product model.		
	Refer to the actual product.		
	 The function buttons page shows if Game Mode is enabled. [f=:): Off [f=:): On 		

S19D300HY / S19D340HY / S20D300HY / S20D340HY / S22D300HY / S22D340HY / S24D300HL / S24D340HL

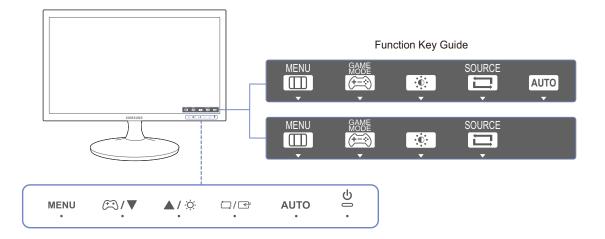


Icons	Description
	Open or close the onscreen display (OSD) menu, or return to the parent menu.
	OSD control lock: Maintain the current settings, or lock the OSD control to prevent unintended changes to settings.
	• Enable: To lock the OSD control, press and hold the [MENU] button for 10 seconds.
MENU	 Disable: To unlock the OSD control, press and hold the [MENU] button for more than 10 seconds.
	If the OSD control is locked,
	Brightness and <u>Contrast</u> can be adjusted. <u>Game Mode</u> is available. <u>INFORMATION</u> can be viewed.
	Press to enable or disable Game Mode.
	The items below are not available if the Game Mode function is enable.
(FR)	• PICTURE \rightarrow Contrast, <u>Sharpness</u> , <u>SAMSUNG</u> Bright, <u>SAMSUNG</u> Upscale
	• COLOR
	• SETUP&RESET \rightarrow Eco Saving
▲/▼	Move to the upper or lower menu or adjust the value for an option on the OSD menu.
-ờ-	Use this button to control the brightness and contrast of the screen.

Icons	Description
	Confirm a menu selection.
다./ 군	Pressing the [☐/ⓒ] button when the OSD menu is not displayed will change the input source (Analog/HDMI). If you power on the product or change the input source by pressing the [☐/ⓒ] button, a message that shows the changed input source will appear at the top left corner of the screen.
AUTO	 Press the [AUTO] button to automatically adjust the screen settings. Changing the resolution in Display Properties will activate the Auto Adjustment function. Available only in Analog mode.
Q	Turn the screen on or off.
Function Key Guide	When a control button on the product is pressed, the Function Key Guide will be displayed before the onscreen menu opens.(The guide shows the function of the button pressed.)To access the onscreen menu when the guide is displayed, press the
	corresponding button again.
	The Function Key Guide may vary depending on the function or product model.
	Refer to the actual product.
	 The function buttons page shows if Game Mode is enabled. [f=:): Off [f=:): On



S20D300H / S20D340H / S24D300H / S24D340H



Icons	Description
MENU	 Open or close the onscreen display (OSD) menu, or return to the parent menu. OSD control lock: Maintain the current settings, or lock the OSD control to prevent unintended changes to settings. Enable: To lock the OSD control, press and hold the [MENU] button for 10 seconds. Disable: To unlock the OSD control, press and hold the [MENU] button for more than 10 seconds. If the OSD control is locked, Brightness and Contrast can be adjusted. Game Mode is available. INFORMATION can be viewed.
Æ	 Press to enable or disable Game Mode. The items below are not available if the Game Mode function is enable. PICTURE → Contrast, Sharpness, SAMSUNGBright, SAMSUNGAngle, SAMSUNGUpscale COLOR SETUP&RESET → Eco Saving
▲/▼	Move to the upper or lower menu or adjust the value for an option on the OSD menu.
<u> </u>	Use this button to control the brightness and contrast of the screen.

Icons	Description
	Confirm a menu selection.
다./ 군	Pressing the [☐/ⓒ] button when the OSD menu is not displayed will change the input source (Analog/HDMI). If you power on the product or change the input source by pressing the [☐/ⓒ] button, a message that shows the changed input source will appear at the top left corner of the screen.
AUTO	 Press the [AUTO] button to automatically adjust the screen settings. Changing the resolution in Display Properties will activate the Auto Adjustment function. Available only in Analog mode.
Q	Turn the screen on or off.
Function Key Guide	When a control button on the product is pressed, the Function Key Guide will be displayed before the onscreen menu opens.(The guide shows the function of the button pressed.)To access the onscreen menu when the guide is displayed, press the
	corresponding button again.
	The Function Key Guide may vary depending on the function or product model.
	Refer to the actual product.
	 The function buttons page shows if Game Mode is enabled. [f=:): Off [f=:): On

1.2.2 Reverse Side

- The color and shape of parts may differ from what is shown. ß Specifications are subject to change without notice to improve quality.
 - Provided ports may vary depending on the product. •

S19D300NY / S22D300NY

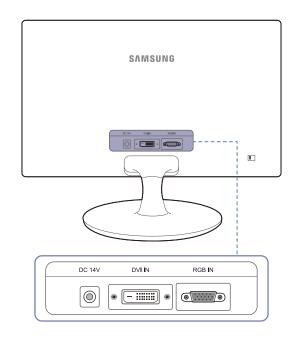
S19D300NY

S22D300NY S A M S U N G . . SAMSUNG 0 • . **@____**@ **@____**@ 8 DC 14V RGB IN DC 14V RGB IN \bigcirc 00 \bigcirc 0

Port	Description
DC 14V	Connects to the DC power adapter.
RGB IN	Connect to a PC using the D-SUB cable.



S20D300BY / S22D300BY / S24D300BL

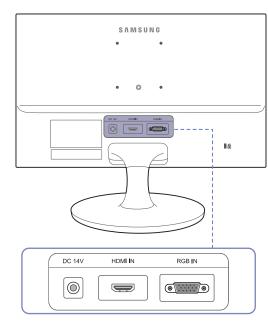


Port	Description
DC 14V	Connects to the DC power adapter.
	Connects to a source device via a DVI cable.
RGB IN	Connect to a PC using the D-SUB cable.

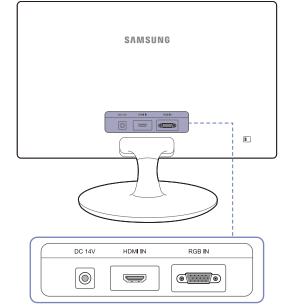


S19D300HY / S19D340HY / S20D300H / S20D340H / S20D300HY / S20D340HY / S22D300HY / S22D340HY / S24D300H / S24D340HL / S24D300HL / S24D340HL

S19D300HY / S19D340HY



S20D300H / S20D340H / S20D300HY / S20D340HY / S22D300HY / S22D340HY / S24D300H / S24D340H / S24D300HL / S24D340HL



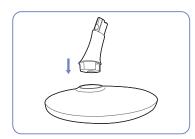
Port	Description
DC 14V	Connects to the DC power adapter.
	Connects to a source device via a HDMI cable.
RGB IN	Connect to a PC using the D-SUB cable.

1.3 Installation

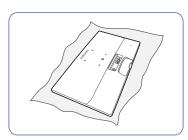
Attaching the Stand (S19D300HY / S19D340HY / S19D300NY) 1.3.1



Before assembling the product, place the product down on a flat and stable surface so that the screen is facing downwards.



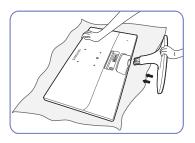
Insert the stand neck into the stand base in the direction shown in the figure.



Place a soft cloth over the table Hold the main body of the to protect the product and place the product onto the cloth so that the front of the product is facing downwards.

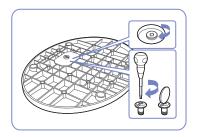


Check that the stand neck is firmly connected.



product with your hand as shown by the figure.

Push the assembled stand into the main body in the direction of the arrow as shown in the figure.



Tightly fasten the connecting screw at the bottom of the stand base.



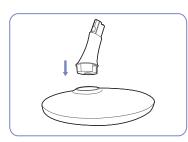
- Caution

Do not hold the product upside down only by the stand.

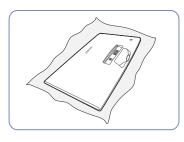
1.3.2 Attaching the Stand (S20D300BY / S20D300H / S20D340H / S20D300HY / S20D340HY / S22D300BY / S22D300HY / S22D340HY / S22D300NY / S24D300BL / S24D300H / S24D340H / S24D300HL / S24D340HL)



Before assembling the product, place the product down on a flat and stable surface so that the screen is facing downwards.



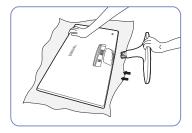
Insert the stand neck into the stand base in the direction shown in the figure.



Place a soft cloth over the table Hold the main body of the to protect the product and place the product onto the cloth so that the front of the product is facing downwards.



Check that the stand neck is firmly connected.



product with your hand as shown by the figure.

Push the assembled stand into the main body in the direction of the arrow as shown in the figure.



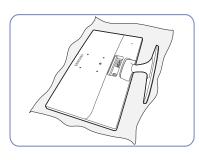
Tightly fasten the connecting screw at the bottom of the stand base.



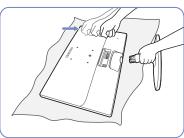
- Caution

Do not hold the product upside down only by the stand.

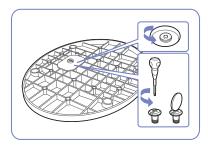
1.3.3 Removing the Stand (S19D300HY / S19D340HY / S19D300NY)



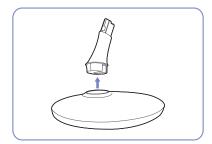
Place a soft cloth over the table to protect the product and place the product onto the cloth so that the front of the product faces downwards.



While holding the stand neck with one hand, pound the other fisted hand down onto the top of the stand base in the direction of the arrow to detach the stand base.

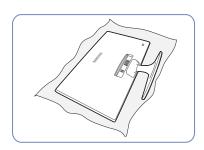


Turn the connecting screw at the bottom of the stand base to separate it.

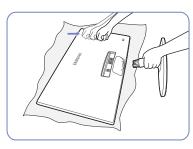


Remove the stand neck from the stand base by pulling it in the direction of the arrow as shown in the figure.

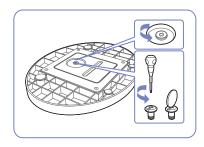
1.3.4 Removing the Stand (S20D300BY / S20D300H / S20D340H / S20D300HY / S20D340HY / S22D300BY / S22D300HY / S22D340HY / S22D300NY / S24D300BL / S24D300H / S24D300H / S24D300HL / S24D340HL)



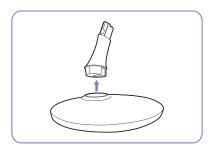
Place a soft cloth over the table to protect the product and place the product onto the cloth so that the front of the product faces downwards.



While holding the stand neck with one hand, pound the other fisted hand down onto the top of the stand base in the direction of the arrow to detach the stand base.

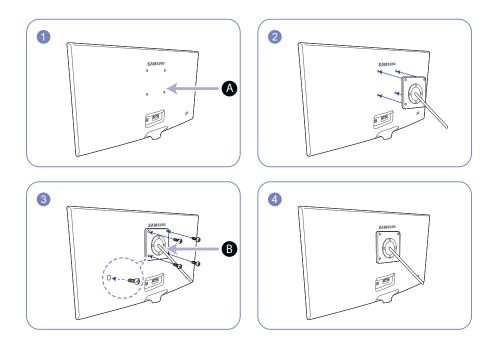


Turn the connecting screw at the bottom of the stand base to separate it.



Remove the stand neck from the stand base by pulling it in the direction of the arrow as shown in the figure.

1.3.5 Installing a Wall-mount Kit or Desktop Stand (S19D300HY / S19D340HY / S19D300NY)





Attach the wall-mount kit or desktop stand here

B Bracket (sold separately)

Align the grooves and tightly fasten the screws on the bracket on the product with the corresponding parts on the wall-mount kit or desktop stand you want to attach.

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- Using a screw longer than the standard length can damage the internal components of the product.
- The length of screws required for a wall mount that does not comply with the VESA standards may vary depending on the specifications.
- Do not use screws that do not comply with the VESA standards. Do not attach the wall-mount kit
 or desktop stand using excessive force. The product may get damaged or fall and cause personal
 injury. Samsung shall not be held liable for any damage or injury caused by using improper screws
 or attaching the wall-mount kit or desktop stand using excessive force.
- Samsung shall not be held liable for any product damage or personal injury caused by using a wallmount kit other than the one specified or from an attempt to install the wall-mount kit on your own.
- To mount the product on a wall, ensure you purchase a wall-mount kit that can be installed 10cm or farther away from the wall.
- Be sure to use a wall-mount kit that complies with the standards.
- To install the monitor using a wall mount, disconnect the stand base from the monitor.
 - 1 Preparations 36

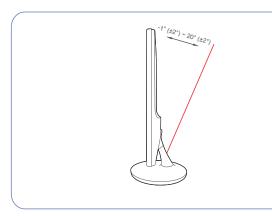
Preparations

1.3.6 Adjusting the Product Tilt

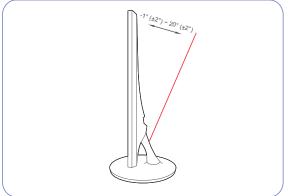


The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.

S19D300HY / S19D340HY / S19D300NY



S20D300BY / S20D300H / S20D340H / S20D300HY / S20D340HY / S22D300BY / S22D300HY / S22D340HY / S22D300NY / S24D300BL / S24D300H / S24D340H / S24D300HL / S24D340HL



- You can adjust the tilt of your monitor.
- Hold the lower part of the product and adjust the tilt carefully.

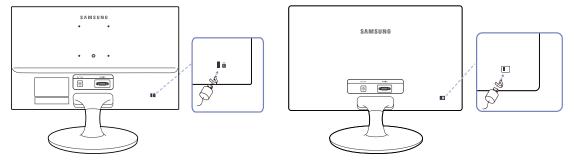
Preparations

1.3.7 Anti-theft Lock

An anti-theft lock allows you to use the product securely even in public places. The locking device shape and locking method depend on the manufacturer. Refer to the user guide provided with your anti-theft locking device for details. The lock device is sold separately.

S19D300HY / S19D340HY / S19D300NY

S20D300BY / S20D300H / S20D340H / S20D300HY / S20D340HY / S22D300BY / S22D300HY / S22D340HY / S22D300NY / S24D300BL / S24D300H / S24D340H / S24D300HL / S24D340HL



The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.

To lock an anti-theft locking device:

- 1 Fix the cable of your anti-theft locking device to a heavy object such as a desk.
- 2 Put one end of the cable through the loop on the other end.
- 3 Insert the Kensington Lock into the security slot on the back of the display.
- 4 Lock the locking device.

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- An anti-theft locking device can be purchased separately.
 - Refer to the user guide provided with your anti-theft locking device for details.
 - Anti-theft locking devices can be purchased at electronics retailers or online.

2.1 Before Connecting

2.1.1 Pre-connection Checkpoints

- Before connecting a source device, read the user manual provided with it.
 The number and locations of ports on source devices may differ from device to device.
- Do not connect the power cable until all connections are completed.
 Connecting the power cable during connection may damage the product.
- Check the types of ports at the back of the product you want to connect.

2.2 Connecting and Using a PC

Select a connection method suitable for your PC.



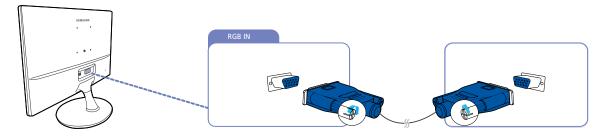
Connecting parts may differ in different products.

2.2.1 Connection Using the D-SUB Cable (Analog Type)



Do not connect the power cable before connecting all other cables. Ensure you connect a source device first before connecting the power cable.

S19D300HY / S19D340HY / S19D300NY



1 Connect the D-SUB cable to the [RGB IN] port on the back of the product and the RGB port on the PC.

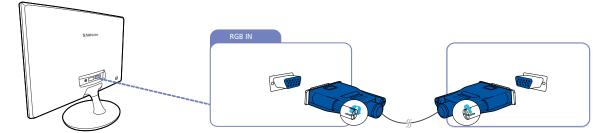
Connect the DC power adapter to the product and a power socket.Next, turn on the power switch on the PC. (For details, refer to "2.2.6 Connecting the Power".)



Provided ports may vary depending on the product.



S20D300BY / S20D300H / S20D340H / S20D300HY / S20D340HY / S22D300BY / S22D300HY / S22D340HY / S22D300NY / S24D300BL / S24D300H / S24D340H / S24D300HL / S24D340HL



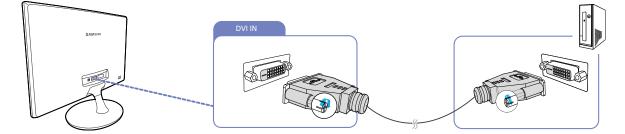
- 1 Connect the D-SUB cable to the [RGB IN] port on the back of the product and the RGB port on the PC.
- Connect the DC power adapter to the product and a power socket.Next, turn on the power switch on the PC. (For details, refer to "2.2.6 Connecting the Power".)
- 3 Press [\Box / \Box] to change the input source to Analog.
- Provided ports may vary depending on the product.

2.2.2 Connection Using the DVI Cable (S20D300BY / S22D300BY / S24D300BL)

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Do not connect the power cable before connecting all other cables.

Ensure you connect a source device first before connecting the power cable.



- 1 Connect the DVI cable to the [DVI IN] port on the back of the product and the DVI port on the PC.
- Connect the DC power adapter to the product and a power socket.Next, turn on the power switch on the PC. (For details, refer to "2.2.6 Connecting the Power".)
- Press [, /] to change the input source to DVI.

Provided ports may vary depending on the product.

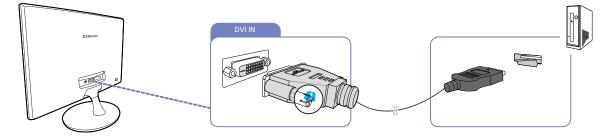
Connecting and Using a Source Device

2.2.3 Connection Using the DVI-HDMI Cable (S20D300BY / S22D300BY / S24D300BL)



Do not connect the power cable before connecting all other cables.

Ensure you connect a source device first before connecting the power cable.



1 Connect the HDMI-DVI cable to the [DVI IN] port on the back of the product and the HDMI port on the PC.

Connect the DC power adapter to the product and a power socket.Next, turn on the power switch on the PC. (For details, refer to "2.2.6 Connecting the Power".)

3 Press [□/⊡] to change the input source to DVI.

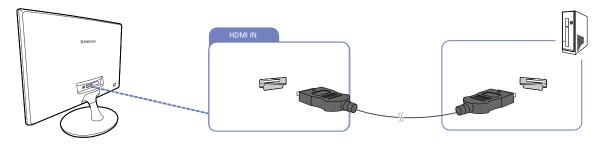
Provided ports may vary depending on the product.

2.2.4 Connection Using the HDMI Cable (S19D300HY / S19D340HY / S20D300H / S20D340H / S20D300HY / S20D340HY / S22D300HY / S22D340HY / S24D300H / S24D340H / S24D300HL / S24D340HL)



Do not connect the power cable before connecting all other cables.

Ensure you connect a source device first before connecting the power cable.



- 1 Connect the HDMI cable to the [HDMI IN] port on the back of the product and the HDMI port on the PC.
- Connect the DC power adapter to the product and a power socket.Next, turn on the power switch on the PC. (For details, refer to "2.2.6 Connecting the Power".)
- Press [□,/□] to change the input source to HDMI.

Provided ports may vary depending on the product.

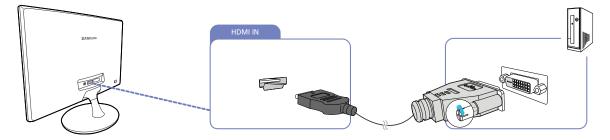


2.2.5 Connection Using the HDMI-DVI Cable (S19D300HY / S19D340HY / S20D300H / S20D340H / S20D300HY / S20D340HY / S22D300HY / S22D340HY / S24D300H / S24D340H / S24D300HL / S24D340HL)



Do not connect the power cable before connecting all other cables.

Ensure you connect a source device first before connecting the power cable.



- 1 Connect the HDMI-DVI cable to the [HDMI IN] port on the back of the product and the DVI port on the PC.
- Connect the DC power adapter to the product and a power socket.Next, turn on the power switch on the PC. (For details, refer to "2.2.6 Connecting the Power".)
- Press [, /] to change the input source to HDMI.

Provided ports may vary depending on the product.



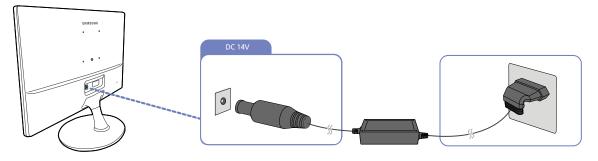
2.2.6 Connecting the Power

- Connecting parts may differ in different products.
 - The exterior may differ depending on the product.

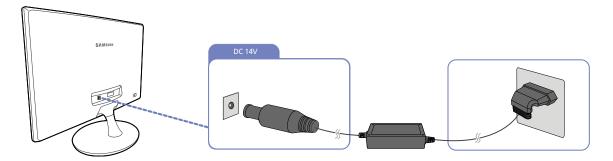
Power connection using integrated DC power adapter

 Connect the DC power adapter to the [DC 14V] port on the back of the product and to the power outlet.

S19D300HY / S19D340HY / S19D300NY



S20D300BY / S20D300H / S20D340H / S20D300HY / S20D340HY / S22D300BY / S22D300HY / S22D340HY / S22D300NY / S24D300BL / S24D300H / S24D340H / S24D300HL / S24D340HL





The input voltage is switched automatically.

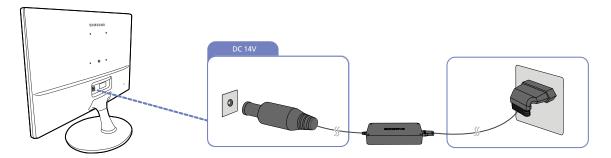


Connecting and Using a Source Device

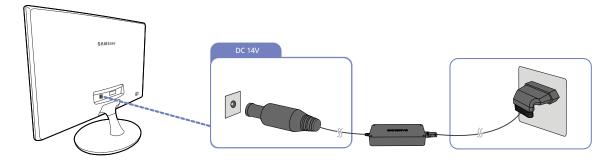
Power connection using detachable DC power adapter

Connect the power cable to the DC power adapter.
 Then, connect the DC power adapter to the [DC 14V] port on the back of the product.
 Next, connect the power cable to the power outlet.

S19D300HY / S19D340HY / S19D300NY



S20D300BY / S20D300H / S20D340H / S20D300HY / S20D340HY / S22D300BY / S22D300HY / S22D340HY / S22D300NY / S24D300BL / S24D300H / S24D340H / S24D300HL / S24D340HL





The input voltage is switched automatically.



2.2.7 Driver Installation

- You can set the optimum resolution and frequency for this product by installing the corresponding drivers.
 - An installation driver is contained on the CD supplied with the product.
 - If the file provided is faulty, visit the Samsung homepage (http://www.samsung.com/) and download the file.
- 1 Insert the user manual CD provided with the product into the CD-ROM drive.
- 2 Click "Windows Driver".
- 3 Follow the instructions given on the screen to proceed with installation.
- 4 Select your product model from the list of models.

Salart the monit			
Selectine mone	tor which you w	ent to install	

5 Go to Display Properties and check that the resolution and refresh rate are appropriate. Refer to your Windows OS manual for further details.

Connecting and Using a Source Device



An information message about setting optimum resolution will appear if you power on the product for the first time after purchase.

Select a language on the product and change the resolution on your PC to the optimum setting.



- Press $[\blacktriangle/ \nabla]$ to move to the language you want and press $[\Box/ \Box]$.
- 2 To hide the information message, press [MENU] or []/[].
- If the optimum resolution is not selected, the message will appear up to three times for a specified time even when the product is turned off and on again.
 - The optimum resolution can also be selected in **Control Panel** on your PC.



Screen Setup

Configure the screen settings such as brightness.

A detailed description of each function is provided. Refer to your product for details.

3.1 Brightness

You can adjust the general brightness of the picture. (Range: 0~100)

A higher value will make the picture appear brighter.

- This menu is not available when MAGICBright is set to Dynamic Contrast mode.
 - This menu is not available when **<u>Eco Saving</u>** is enabled.
 - The functions available on the monitor may vary depending on the model. Refer to the actual product.

3.1.1 Configuring Brightness

- **1** Press any button on the front of the product to display the Key guide. Next, press [**MENU**] to display the corresponding menu screen.
- 2 Press $[\blacktriangle/]$ to move to **PICTURE** and press $[\Box/]$ on the product.
- 3 Press [▲/▼] to move to Brightness and press [□/□] on the product. The following screen will appear.



- 4 Adjust the **Brightness** using the $[\blacktriangle/\nabla]$ buttons.
- 5 The selected option will be applied.

3.2 Contrast

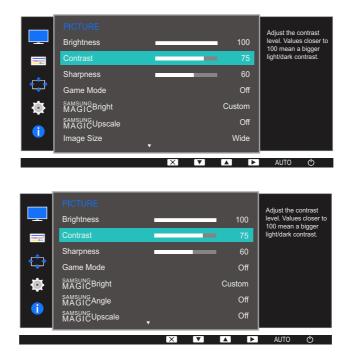
Adjust the contrast between the objects and background. (Range: 0~100)

A higher value will increase the contrast to make the object appear clearer.

- This option is not available when MAGICBright is in Cinema or Dynamic Contrast mode.
 - This menu is not available when <u>Game Mode</u> is enabled.
 - The functions available on the monitor may vary depending on the model. Refer to the actual product.

3.2.1 Configuring Contrast

- **1** Press any button on the front of the product to display the Key guide. Next, press [**MENU**] to display the corresponding menu screen.
- 2 Press $[\blacktriangle/]$ to move to **PICTURE** and press $[\Box/]$ on the product.
- 3 Press [▲/▼] to move to Contrast and press [□/□] on the product. The following screen will appear.



- 4 Adjust the **Contrast** using the $[\blacktriangle / \bigtriangledown]$ buttons.
- 5 The selected option will be applied.

3.3 Sharpness

Make the outline of objects more clear or blurry. (Range: 0~100)

A higher value will make the outline of objects clearer.

- This option is not available when MAGICBright is in Cinema or Dynamic Contrast mode.
 - This menu is not available when MAGICUpscale is in Mode1 or Mode2.
 - This menu is not available when <u>Game Mode</u> is enabled.
 - The functions available on the monitor may vary depending on the model. Refer to the actual product.

3.3.1 Configuring Sharpness

- **1** Press any button on the front of the product to display the Key guide. Next, press [**MENU**] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to **PICTURE** and press [□/☞] on the product.
- Press [▲/▼] to move to Sharpness and press [□/□] on the product.
 The following screen will appear.

- - - - - - -	Brightness Contrast Sharpness Game Mode SAMSUNGBright MAGICUpscale Image Size		100 75 60 Off Custom Off Wide	of the picture. Values closer to 100 mean a sharper image.
		X		auto 🔿
	PICTURE Brightness Contrast Sharpness Game Mode SAMSUNG AGIC Bright SAMSUNG AGIC Angle SAMSUNG MAGIC Upscale	•	100 75 60 Off Custom Off Off	Adjust the sharpness of the picture. Values closer to 100 mean a sharper image.

- 4 Adjust the **Sharpness** using the $[\land / \lor]$ buttons.
- 5 The selected option will be applied.

3.4 Game Mode

Configure the product screen settings for game mode.

Use this feature when playing games on a PC or when a game console such as PlayStation[™] or Xbox[™] is connected.



The functions available on the monitor may vary depending on the model. Refer to the actual product.

3.4.1 Configuring Game Mode

- 1 Press any button on the front of the product to display the Key guide. Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to PICTURE and press [☐/@] on the product.
- 3 Press $[\blacktriangle/ V]$ to move to **Game Mode** and press $[\Box/ C]$ on the product.





- 4 Press $[\blacktriangle/\nabla]$ to move to the option you want and press $[\Box/\Box]$.
- 5 The selected option will be applied.
- When the monitor turns off, enters power-saving mode or changes input sources, **Game Mode** turns **Off** even if it is set to **On**.
 - If you want to keep Game Mode enabled all the time, select Always On.

3.5 SAMSUNG MAGIC Bright

This menu provides an optimum picture quality suitable for the environment where the product will be used.

- This menu is not available when <u>Eco Saving</u> is enabled.
 - This menu is not available when MAGICAngle is enabled.
 - This menu is not available when **<u>Game Mode</u>** is enabled.
 - The functions available on the monitor may vary depending on the model. Refer to the actual product.

You can customize the brightness to suit your preferences.

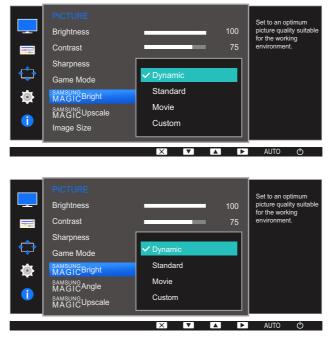
3.5.1 Configuring SAMSUNG MAGIC Bright

- 1 Press any button on the front of the product to display the Key guide. Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to PICTURE and press [☐/@] on the product.
- 3 Press $[\blacktriangle/ \nabla]$ to move to **SAMSUNG Bright** and press $[\Box/\Box]$ on the product.



- Custom: Customize the contrast and brightness as required.
- **Standard**: Obtain a picture quality suitable for editing documents or using Internet.
- Cinema: Obtain the brightness and sharpness of TVs suitable for enjoying video and DVD content.
- Dynamic Contrast: Obtain balanced brightness through automatic contrast adjustment.

Screen Setup



When the external input is connected through HDMI and <u>PC/AV Mode</u> is set to AV, <u>MAGICBright</u> has four automatic picture settings (Dynamic, Standard, Movie and Custom) that are preset at the factory. You can activate either Dynamic, Standard, Movie or Custom. You can select Custom which automatically recalls your personalized picture settings.

- **Dynamic**: Select this mode to view a sharper image than in **Standard** mode.
- **Standard**: Select this mode when the surroundings are bright. This also provides a sharp image.
- Movie: Select this mode when the surroundings are dark. This will save power and reduce eye fatigue.
- Custom: Select this mode when you want to adjust the image according to your preferences.
- 4 Press [▲/▼] to move to the option you want and press [□/⊡].
- 5 The selected option will be applied.

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3.6 SAMSUNG MAGIC Angle (S20D300H / S20D340H / S24D300H / S24D340H)

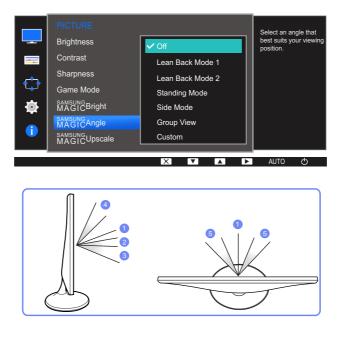
SAMSUNG Angle allows you to configure the settings to obtain the optimum picture quality according to your viewing angle.

- This option is not available when **SAMSUNG Bright** is in **Cinema** or **Dynamic Contrast** mode.
 - This menu is not available when **<u>Game Mode</u>** is enabled.
 - The functions available on the monitor may vary depending on the model. Refer to the actual product.

This feature provides the viewing angle, brightness, and tint to suit your preferences.

3.6.1 Configuring SAMSUNG MAGIC Angle

- 1 Press any button on the front of the product to display the Key guide. Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to PICTURE and press [□/□] on the product.
- 3 Press $[\blacktriangle/ \nabla]$ to move to **MAGICAngle** and press $[\Box/ \Box]$ on the product.



- Off (1): Select this option to view directly in front of the product.
- Lean Back Mode 1 (2): Select this option to view from a place slightly lower than the product.
- Lean Back Mode 2 ③: Select this option to view from a place lower than Lean Back Mode 1.
- Standing Mode (4): Select this option to view from a place higher than the product.

Screen Setup

- Side Mode (5): Select this option to view from either side of the product.
- Group View: Select this option for more than one viewer to view from places ①, ④ and ⑤.
- Custom: Lean Back Mode 1 will be applied by default if Custom is selected.
- 4 Press [▲/▼] to move to the option you want and press [□/⊡].
- 5 The selected option will be applied.

3.7 SAMSUNG MAGIC Upscale

MAGIC Upscale function can enhance the layers of the picture details and the vividness of the picture.

- The function has more obvious effects on low-resolution pictures.
 - This menu is not available when MAGICBright is in Cinema or Dynamic Contrast mode.
 - This menu is not available when Game Mode is enabled.
 - The functions available on the monitor may vary depending on the model. Refer to the actual product.

3.7.1 Configuring SAMSUNG MAGIC Upscale

- Press any button on the front of the product to display the Key guide. Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to PICTURE and press [□/□] on the product.
- 3 Press [▲/▼] to move to SAMSUNG Upscale and press [□/□] on the product. The following screen will appear.



Comparing with Mode1, Mode2 has a stronger effect.

- 4 Press [▲/▼] to move to the option you want and press [□/⊡].
- 5 The selected option will be applied.

3.8 Image Size

Change the picture size.

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The functions available on the monitor may vary depending on the model. Refer to the actual product.

3.8.1 Changing the Image Size

- 1 Press any button on the front of the product to display the Key guide. Next, press [MENU] to display the corresponding menu screen.
- 2 Press $[\blacktriangle/]$ to move to **PICTURE** and press $[\Box/]$ on the product.
- 3 Press [▲/▼] to move to Image Size and press [□/⊡] on the product. The following screen will appear.

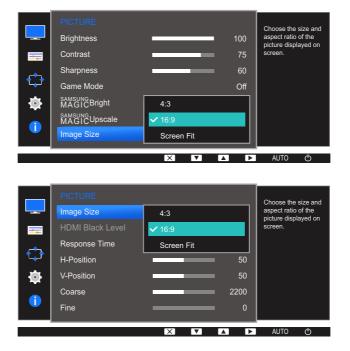


In PC mode

- Auto: Display the picture according to the aspect ratio of the input source.
- Wide: Display the picture in full screen regardless of the aspect ratio of the input source.



In AV mode



- 4:3: Display the picture with an aspect ratio of 4:3. Suitable for videos and standard broadcasts.
- **16:9**: Display the picture with an aspect ratio of 16:9.
- Screen Fit: Display the picture with the original aspect ratio without cutting off.
 - Changing the screen size is available when the following conditions are satisfied.
 - The function may not be supported depending on the ports provided with the product.
 - A digital output device is connected using the HDMI/DVI cable.
 - The input signal is 480p, 576p, 720p, or 1080p and monitor can display normally (Not every model can support all of these signals.).
 - This can only be set when the external input is connected through HDMI/DVI and <u>PC/AV Mode</u> is set to AV.
- 4 Press [▲/▼] to move to the option you want and press [□/⊡].
- 5 The selected option will be applied.

3.9 HDMI Black Level (S19D300HY / S19D340HY / S20D300H / S20D340H / S20D300HY / S20D340HY / S22D300HY / S22D340HY / S24D300H / S24D340H / S24D300HL / S24D340HL)

If a DVD player or set-top box is connected to the product via HDMI, image quality degradation (contrast/ color degradation, black level, etc.) may occur, depending on the connected source device. In such case, **HDMI Black Level** can be used to adjust the image quality. If this is the case, correct the degraded picture quality using **HDMI Black Level**.

- This function is only available in HDMI mode.
 - The functions available on the monitor may vary depending on the model. Refer to the actual product.

3.9.1 Configuring the HDMI Black Level Settings

- Press any button on the front of the product to display the Key guide. Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to PICTURE and press [☐/@] on the product.
- 3 Press [▲/▼] to move to HDMI Black Level and press [□/⊡] on the product. The following screen will appear.



- Normal: Select this mode when there is no contrast ratio degradation.
- Low: Select this mode to reduce the black level and increase the white level when there is a contrast ratio degradation.



- 4 Press $[\blacktriangle/ \nabla]$ to move to the option you want and press $[\Box/ \Box]$.
- 5 The selected option will be applied.

HDMI Black Level may not be compatible with some source devices.

3.10 Response Time (S24D300H / S24D340H)

Accelerate the panel response rate to make video appear more vivid and natural.

- It is best to set **Response Time** to **Standard** or **Faster** when you are not viewing a movie.
 - The functions available on the monitor may vary depending on the model. Refer to the actual product.

3.10.1 Configuring the Response Time

- 1 Press any button on the front of the product to display the Key guide. Next, press [MENU] to display the corresponding menu screen.
- 2 Press $[\blacktriangle/ \forall]$ to move to **PICTURE** and press $[\Box/ \boxdot]$ on the product.
- 3 Press [▲/▼] to move to Response Time and press [□/□] on the product. The following screen will appear.

	PICTURE Image Size HDMI Black Level	▲ Wide	Accelerate the panel response rate to make video appear more vivid and natural.
¢	Response Time H-Position V-Position Coarse	Standard ✓ Faster Fastest	
1	Fine		AUTO 🔿

- 4 Press [▲/▼] to move to the option you want and press [□/⊡].
- 5 The selected option will be applied.

3.11 H-Position & V-Position

H-Position: Move the screen to the left or right.

V-Position: Move the screen up or down.

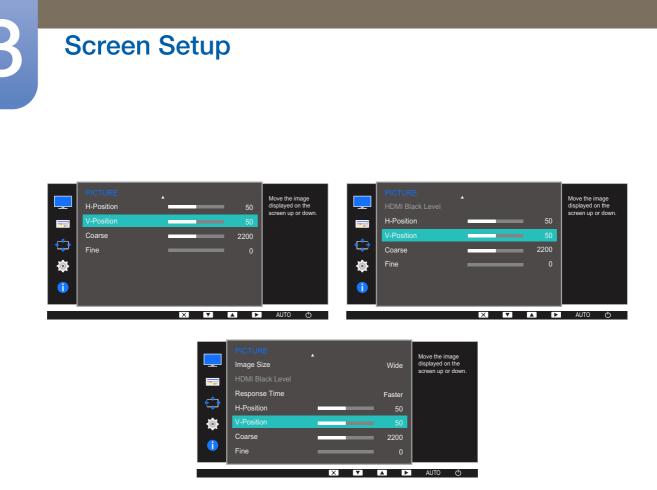
- This menu is available in Analog mode only.
 - This menu is only available when Image Size is set to Screen Fit in AV Mode. When a 480P or 576P or 720P or 1080P signal is input in AV mode and the monitor can display normally, select Screen Fit to adjust horizontal position in 0-6 levels.
 - The functions available on the monitor may vary depending on the model. Refer to the actual product.

3.11.1 Configuring H-Position & V-Position

- **1** Press any button on the front of the product to display the Key guide. Next, press [**MENU**] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to PICTURE and press [□/□] on the product.
- 3 Press [▲/▼] to move to H-Position or V-Position, and press [□/].







- 4 Press $[\blacktriangle/ \nabla]$ to configure **H-Position** or **V-Position**.
- 5 The selected option will be applied.

3.12 Coarse

Adjust the screen frequency.

- This menu is available in **Analog** mode only.
 - The functions available on the monitor may vary depending on the model. Refer to the actual product.

3.12.1 Adjusting Coarse

- 1 Press any button on the front of the product to display the Key guide. Next, press [MENU] to display the corresponding menu screen.
- 2 Press $[\blacktriangle/ \nabla]$ to move to **PICTURE** and press $[\Box/ \Box]$ on the product.
- 3 Press $[\blacktriangle/ \forall]$ to move to **Coarse** and press $[\Box/ \boxdot]$ on the product.

	PICTURE H-Position	•	50	Adjust the screen frequency.		PICTURE HDMI Black Level			Adjust the screen frequency.
	V-Position		50			H-Position		50	
I	Coarse		2200			V-Position		50	
¢	Fine				¢	Coarse		2200	
•					O	Fine			
		XV	A >	AUTO 🖒			XV		AUTO ()

	PICTURE Image Size	▲ Wide	Adjust the screen frequency.
	HDMI Black Level		
	Response Time	Faste	
t 🗘	H-Position	50	
Ö	V-Position	50	
	Coarse	2200	
1	Fine		
			► AUTO ᠿ

- 4 Adjust the Coarse using the $[\land / \lor]$ buttons.
- 5 The selected option will be applied.

3.13 Fine

Fine-adjust the screen to obtain a vivid picture.

- This menu is available in **Analog** mode only.
 - The functions available on the monitor may vary depending on the model. Refer to the actual product.

3.13.1 Adjusting Fine

- 1 Press any button on the front of the product to display the Key guide. Next, press [MENU] to display the corresponding menu screen.
- 2 Press $[\blacktriangle/ \forall]$ to move to **PICTURE** and press $[\Box/ \boxdot]$ on the product.
- 3 Press [▲/▼] to move to Fine and press [□/⊡] on the product.

	PICTURE H-Position	•	50	Fine-tune the screen to get a vivid picture.		PICTURE HDMI Black Level			Fine-tune the screen to get a vivid picture.
	V-Position		50			H-Position		50	
<u>_</u>	Coarse		2200		_ _	V-Position		50	
	Fine		0		¢	Coarse		2200	
.					•	Fine		0	
()					•				
		×		auto 🖒			×		auto O

	PICTURE Image Size	▲ Wide	Fine-tune the screen to get a vivid picture.
	HDMI Black Level		
	Response Time	Faster	
* +*	H-Position	50	
Ø	V-Position	50	
	Coarse	2200	
	Fine	0	
			AUTO 🖒

- 4 Adjust the Fine using the $[\blacktriangle / \nabla]$ buttons.
- 5 The selected option will be applied.

Configuring Tint

A detailed description of each function is provided. Refer to your product for details. Adjust the tint of the screen. This menu is not available when <u>MAGIC</u>Bright is set to Cinema or Dynamic Contrast mode. This menu is not available when <u>Game Mode</u> is enabled.

4.1 Red

Adjust the value of the color red in the picture. (Range: 0~100)

A higher value will increase the intensity of the color.

4.1.1 Configuring Red

- 1 Press any button on the front of the product to display the Key guide. Next, press [MENU] to display the corresponding menu screen.
- 2 Press $[\blacktriangle/ \nabla]$ to move to **COLOR** and press $[\Box/\Box]$ on the product.
- 3 Press $[\blacktriangle/ \nabla]$ to move to **Red** and press $[\Box/\Box]$ on the product.

	COLOR		Adjust the red
	Red	50	saturation level. Values closer to 100
=	Green	50	mean greater intensity for the color.
_ _	Blue	50	,
€ ↓*	Color Tone	Normal	
•	Gamma	Mode1	
			AUTO 🔿

- 4 Adjust the Red using the $[\land / \lor]$ buttons.
- 5 The selected option will be applied.



4.2 Green

Adjust the value of the color green in the picture. (Range: 0~100)

A higher value will increase the intensity of the color.

4.2.1 Configuring Green

- **1** Press any button on the front of the product to display the Key guide. Next, press [**MENU**] to display the corresponding menu screen.
- 2 Press $[\blacktriangle/ \forall]$ to move to **COLOR** and press $[\Box/ \boxdot]$ on the product.
- 3 Press $[\blacktriangle/ \nabla]$ to move to **Green** and press $[\Box/\Box]$ on the product.

	COLOR Red		Adjust the green saturation level. Values closer to 100
P	Green Blue	50	mean greater intensity for the color.
¢	Color Tone	Normal	
•	Gamma	Mode1	
1			
			AUTO 🖒

- 4 Adjust the Green using the $[\blacktriangle / \nabla]$ buttons.
- 5 The selected option will be applied.



4.3 Blue

Adjust the value of the color blue in the picture. (Range: 0~100)

A higher value will increase the intensity of the color.

4.3.1 Configuring Blue

- **1** Press any button on the front of the product to display the Key guide. Next, press [**MENU**] to display the corresponding menu screen.
- 2 Press $[\blacktriangle/ \forall]$ to move to **COLOR** and press $[\Box/ \boxdot]$ on the product.
- 3 Press $[\blacktriangle/ \nabla]$ to move to **Blue** and press $[\Box/\Box]$ on the product.

	COLOR Red Green Blue	50 50	Adjust the blue saturation level. Values closer to 100 mean greater intensity for the color.
	Color Tone	Normal	
•	Gamma	Mode1	
0			
			auto ල්

- 4 Adjust the Blue using the $[\blacktriangle/\nabla]$ buttons.
- 5 The selected option will be applied.

4.4 Color Tone

Adjust the general color tone of the picture.

- This menu is not available when MAGICAngle is enabled.
 - This option is not available when MAGICBright is in Cinema or Dynamic Contrast mode.
 - This menu is not available when <u>Game Mode</u> is enabled.
 - The functions available on the monitor may vary depending on the model. Refer to the actual product.

4.4.1 Configuring the Color Tone Settings

- **1** Press any button on the front of the product to display the Key guide. Next, press [**MENU**] to display the corresponding menu screen.
- 2 Press $[\blacktriangle/ \nabla]$ to move to **COLOR** and press $[\Box/ \Box]$ on the product.
- 3 Press $[\blacktriangle/ \nabla]$ to move to **Color Tone** and press $[\Box/ \Box]$ on the product.

	COLOR		Select a color tone
	Red Green	Cool 2 Cool 1	that best suits your viewing needs.
¢	Blue Color Tone	✓ Normal Warm 1	
\$	Gamma	Warm 2	
		Custom	
			auto 🔿

- Cool 2: Set the color temperature to be cooler than Cool 1.
- Cool 1: Set the color temperature to be cooler than Normal mode.
- **Normal**: Display the standard color tone.
- Warm 1: Set the color temperature to be warmer than Normal mode.
- Warm 2: Set the color temperature to be warmer than Warm 1.
- **Custom**: Customize the color tone.
- When the external input is connected through HDMI and <u>PC/AV Mode</u> is set to AV, Color Tone has four color temperature settings (Cool, Normal, Warm and Custom).
- 4 Press [▲/▼] to move to the option you want and press [□/⊡].
- 5 The selected option will be applied.

4.5 Gamma

Adjust the mid-range brightness (Gamma) of the picture.

- This menu is not available when MAGICAngle is enabled.
 - This option is not available when **MAGIC**Bright is in Cinema or Dynamic Contrast mode.
 - This menu is not available when Game Mode is enabled.
 - The functions available on the monitor may vary depending on the model. Refer to the actual product.

4.5.1 Configuring Gamma

- **1** Press any button on the front of the product to display the Key guide. Next, press [**MENU**] to display the corresponding menu screen.
- 2 Press $[\blacktriangle/ \nabla]$ to move to **COLOR** and press $[\Box/ \Box]$ on the product.
- 3 Press [▲/▼] to move to Gamma and press [□/□] on the product.

	COLOR			Adjust the middle level
	Red			of luminance.
==	Green			
	Blue			
	Color Tone			
O	Gamma	✓ Mode1		
		Mode2		
		Mode3	- II	
				auto 🔿

- 4 Press [▲/▼] to move to the option you want and press [□/⊡].
- 5 The selected option will be applied.



A detailed description of each function is provided. Refer to your product for details.

5.1 Language

Set the menu language.

- A change to the language setting will only be applied to the onscreen menu display.
 - It will not be applied to other functions on your PC.

5.1.1 Configuring Language

- **1** Press any button on the front of the product to display the Key guide. Next, press [**MENU**] to display the corresponding menu screen.
- 2 Press $[\blacktriangle/ \nabla]$ to move to **MENU SETTINGS** and press $[\Box/\Box]$ on the product.
- 3 Press [▲/▼] to move to Language and press [□/□] on the product.

	MENU SETTINGS		
	Language	Deutsch	Set the menu language.
=	Menu H-Position	✓ English	
	Menu V-Position	Español	
╏╋┱╋	Display Time	Français	
	Transparency	Italiano	
		Magyar	
			AUTO 🖒

- 4 Press $[\blacktriangle/\nabla]$ to move to the language you want and press $[\Box/\Box]$.
- 5 The selected option will be applied.

5.2 Menu H-Position & Menu V-Position

Menu H-Position: Move the menu position to the left or right.

Menu V-Position: Move the menu position up or down.

5.2.1 Configuring Menu H-Position & Menu V-Position

- **1** Press any button on the front of the product to display the Key guide. Next, press [**MENU**] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to MENU SETTINGS and press [□/⊡] on the product.
- 3 Press [▲/▼] to move to Menu H-Position or Menu V-Position, and press [□/□] on the product.

■	MENU SETTINGS Language Menu H-Position Menu V-Position Display Time Transparency	 English 100 2 20 sec On	Move the menu position to the left or right.
	MENU SETTINGS Language Menu H-Position Menu V-Position Display Time	20 sec	AUTO 🕚
() ()	Transparency	On	

- 4 Press [▲ / ▼] to configure Menu H-Position or Menu V-Position.
- 5 The selected option will be applied.

5.3 Display Time

Set the on-screen display (OSD) menu to automatically disappear if the menu is not used for a specified period of time.

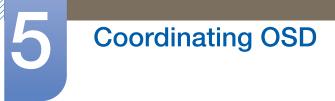
Display Time can be used to specify the time after which you want the OSD menu to disappear.

5.3.1 Configuring Display Time

- **1** Press any button on the front of the product to display the Key guide. Next, press [**MENU**] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to MENU SETTINGS and press [□/□] on the product.
- 3 Press [▲/▼] to move to Display Time and press [□/-] on the product.

	MENU SETTINGS Language Menu H-Position		English 100	Set how long the menu window will remain on screen for when it is not in use.
	Menu V-Position Display Time	5 sec 10 sec		
•	Transparency	 ✓ 20 sec 200 sec 		
,		X V	A Þ	auto 🖒

- 4 Press [▲/▼] to move to the option you want and press [□/⊡].
- 5 The selected option will be applied.

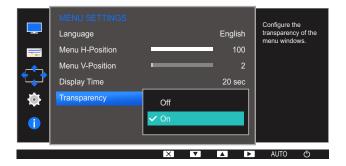


5.4 Transparency

Set the transparency for the menu windows.

5.4.1 Changing Transparency

- **1** Press any button on the front of the product to display the Key guide. Next, press [**MENU**] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to MENU SETTINGS and press [□/⊡] on the product.
- 3 Press $[\blacktriangle/]$ to move to **Transparency** and press $[\Box/]$ on the product.



- 4 Press [▲/▼] to move to the option you want and press [□/⊡].
- 5 The selected option will be applied.

Setup and Reset

A detailed description of each function is provided. Refer to your product for details.

6.1 Reset All

Return all the settings for the product to the default factory settings.

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The functions available on the monitor may vary depending on the model. Refer to the actual product.

6.1.1 Initializing Settings (Reset All)

- **1** Press any button on the front of the product to display the Key guide. Next, press [MENU] to display the corresponding menu screen.
- 2 Press $[\blacktriangle/ \nabla]$ to move to **SETUP&RESET** and press $[\Box/ \Box]$ on the product.
- 3 Press $[\blacktriangle/ \forall]$ to move to **Reset All** and press $[\Box/ \textcircled]$ on the product.



- 4 Press [▲/▼] to move to the option you want and press [□/□].
- 5 The selected option will be applied.

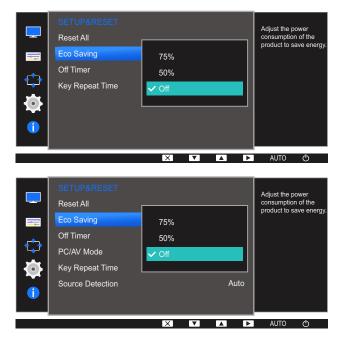
6.2 Eco Saving

The **Eco Saving** function reduces power consumption by controlling the electric current used by the monitor panel.

- This menu is not available when MAGICBright is in Dynamic Contrast mode.
 - This menu is not available when Game Mode is enabled.
 - The functions available on the monitor may vary depending on the model. Refer to the actual product.

6.2.1 Configuring Eco Saving

- **1** Press any button on the front of the product to display the Key guide. Next, press [**MENU**] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to SETUP&RESET and press [□/⊡] on the product.
- 3 Press [▲/▼] to move to Eco Saving and press [□/□] on the product.



- 75%: Change the monitor power consumption to 75% of the default level.
- **50%**: Change the monitor power consumption to 50% of the default level.
- Off: Deactivate the Eco Saving function.
- 4 Press [▲/▼] to move to the option you want and press [□/□].
- 5 The selected option will be applied.

6.3 Off Timer

You can set the product to automatically turn off.

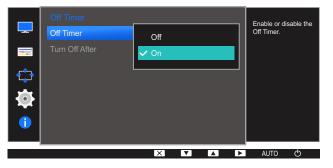


The functions available on the monitor may vary depending on the model. Refer to the actual product.

6.3.1 Configuring Off Timer

- **1** Press any button on the front of the product to display the Key guide. Next, press [**MENU**] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to SETUP&RESET and press [□/⊡] on the product.
- 3 Press $[\blacktriangle/ \nabla]$ to move to **Off Timer** and press $[\Box/ \Box]$ on the product.
- Press [▲/▼] to move to Off Timer and press [□/□] on the product.
 The following screen will appear.





- Off: Deactivate the off timer so that the product does not power off automatically.
- On: Activate the off timer so that the product powers off automatically.
- 5 Press $[\blacktriangle/ \forall]$ to move to the option you want and press $[\Box/ \boxdot]$.
- 6 The selected option will be applied.

6.3.2 Configuring Turn Off After

- 1 Press any button on the front of the product to display the Key guide. Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to SETUP&RESET and press [□/⊡] on the product.
- 3 Press [▲/▼] to move to **Off Timer** and press [□/☞] on the product.
- Press [▲/▼] to move to Turn Off After and press [□/⊡] on the product.
 The following screen will appear.



- 5 Press $[\blacktriangle / \lor]$ to configure Turn Off After.
- 6 The selected option will be applied.
- The off timer can be set within a range of 1 to 23 hours. The product will automatically power off after the specified number of hours.
 - This option is only available when **Off Timer** is set to **On**.
 - For products for the market in some regions, the Off Timer is set to automatically activate 4 hours after the product powers on. This is done in accordance with power supply regulations. If you do not want the timer to activate, go to MENU → SETUP&RESET and set Off Timer to Off.



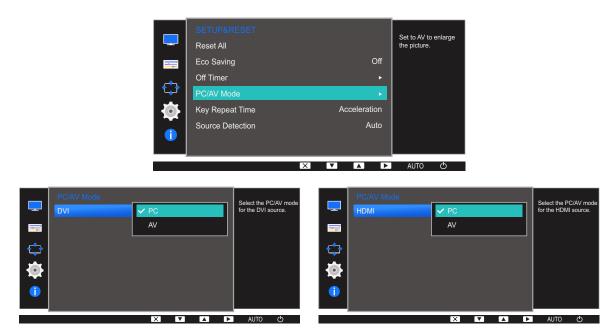
6.4 PC/AV Mode (S19D300HY / S19D340HY / S20D300BY / S20D300H / S20D340H / S20D300HY / S20D340HY / S22D300BY / S22D300HY / S22D340HY / S24D300BL / S24D300H / S24D340H / S24D300HL / S24D340HL)

Set **PC/AV Mode** to **AV**. The picture size will be enlarged. This option is useful when you view a movie.

- This function does not support **Analog** mode.
 - Supplied for the wide models only such as 16:9 or 16:10.
 - If the monitor (when set to DVI or HDMI) is in power saving mode or is displaying the message Check Signal Cable, press the MENU button to display the On Screen Display(OSD).
 You can select PC or AV.
 - The functions available on the monitor may vary depending on the model. Refer to the actual product.

6.4.1 Configuring PC/AV Mode

- **1** Press any button on the front of the product to display the Key guide. Next, press [**MENU**] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to SETUP&RESET and press [□/⊡] on the product.
- 3 Press $[\blacktriangle/ \nabla]$ to move to **PC/AV Mode** and press $[\Box/ \Box]$ on the product.
- 4 Press [▲/▼] to move to DVI or HDMI, and press [☐/☞]. And press [☐/☞] again.



- 5 Press $[\blacktriangle/\nabla]$ to move to the option you want and press $[\Box/\Box]$.
- 6 The selected option will be applied.

6.5 Key Repeat Time

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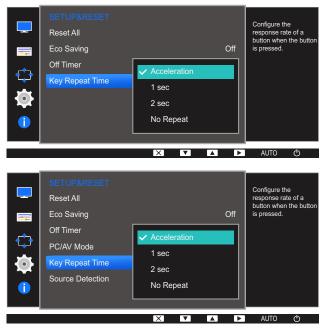
Control the response rate of a button when the button is pressed.

The functions available on the monitor may vary depending on the model. Refer to the actual product.

6.5.1 Configuring Key Repeat Time

- **1** Press any button on the front of the product to display the Key guide. Next, press [**MENU**] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to SETUP&RESET and press [□/⊡] on the product.

3 Press $[\blacktriangle/ \nabla]$ to move to Key Repeat Time and press $[\Box/ \Box]$ on the product.



- Acceleration, 1 sec, or 2 sec can be selected. If No Repeat is selected, a command responds only once when a button is pressed.
- 4 Press [▲/▼] to move to the option you want and press [□/⊡].
- 5 The selected option will be applied.

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6.6 Source Detection (S19D300HY / S19D340HY / S20D300BY / S20D300H / S20D340H / S20D300HY / S20D340HY / S22D300BY / S22D300HY / S22D340HY / S24D300BL / S24D300H / S24D340H / S24D300HL / S24D340HL)

You can activate **Source Detection**.

The functions available on the monitor may vary depending on the model. Refer to the actual product.

6.6.1 Configuring Source Detection

- 1 Press any button on the front of the product to display the Key guide. Next, press [MENU] to display the corresponding menu screen.
- 2 Press $[\blacktriangle/ \forall]$ to move to SETUP&RESET and press $[\Box/ \bullet]$ on the product.
- Press [▲/▼] to move to Source Detection and press [□/□] on the product.
 The following screen will appear.

	SETUP&RESET Reset All Eco Saving Off Timer PC/AV Mode Key Repeat Time	Off ,	Decide how input sources will be detected.
•	Source Detection	Auto Manual	AUTO ტ

- Auto: The input source is automatically recognized.
- Manual: Manually select an input source.
- 4 Press [▲/▼] to move to the option you want and press [□/ℝ].
- 5 The selected option will be applied.



A detailed description of each function is provided. Refer to your product for details.

7.1 INFORMATION

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View the current input source, frequency and resolution.

7.1.1 Displaying INFORMATION

- **1** Press any button on the front of the product to display the Key guide. Next, press [**MENU**] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to INFORMATION. The current input source, frequency and resolution will appear.



The displayed menu items may vary depending on the model.

7.2 Configuring Brightness and Contrast in the Initial Screen

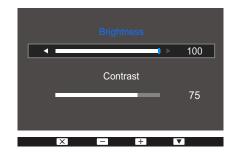
Adjust the **Brightness**, **Contrast** using the [-;;-] buttons when the initial screen (that displays no menu screen) is displayed.

Brightness :

- This menu is not available when MAGICBright is set to Dynamic Contrast mode.
- This menu is not available when <u>Eco Saving</u> is enabled.

Contrast :

- This option is not available when MAGICBright is in Cinema or Dynamic Contrast mode.
- This menu is not available when <u>Game Mode</u> is enabled.
- 1 Press any button on the front of the product (when no menu screen is displayed) to display the Key guide. Next, press [-\overline{c}]. The following screen will appear.



- 2 Press the [, Press the [, Press the prightness and Contrast settings.
- 3 Adjust the **Brightness**, **Contrast** using the $[\blacktriangle/ \forall]$ buttons.



8.1 Easy Setting Box



"Easy Setting Box" enables users to use the monitor by partitioning multiple sections.

8.1.1 Installing the Software

- 1 Insert the installation CD into the CD-ROM drive.
- 2 Select the "Easy Setting Box" setup program.
 - If the pop-up screen for the software installation does not appear on the main screen, find and double-click the "Easy Setting Box" setup file on the CD-ROM.
- 3 When the Installation Wizard appears, click **Next**.
- 4 Follow the instructions given on the screen to proceed with installation.
 - The software may not work properly if you do not restart the computer after the installation.
 - The "Easy Setting Box" icon may not appear depending on the computer system and the product specifications.
 - If the shortcut icon does not appear, press the F5 key.

Restrictions and Problems with the Installation ("Easy Setting Box")

The "Easy Setting Box" installation may be affected by the Graphics Card, Motherboard and the Networking Environment.

System Requirements

OS

- Windows XP 32Bit/64Bit
- Windows Vista 32Bit/64Bit
- Windows 7 32Bit/64Bit
- Windows 8 32Bit/64Bit

Hardware

- At least 32MB of memory
- At least 60MB of free space on the hard disk drive



8.1.2 Removing the Software

Click Start, select Settings/Control Panel, and then double-click Add or Remove Programs.

Select "Easy Setting Box" from the program list and click the Add/Delete button.

9.1 Requirements Before Contacting Samsung Customer Service Center

9.1.1 Testing the Product



Before calling Samsung Customer Service Center, test your product as follows. If the problem persists, contact Samsung Customer Service Center.

Check if your product is operating normally by using the product test function.

If the screen is turned off and the power indicator blinks even though the product is properly connected to a PC, perform a self-diagnosis test.

- 1 Power off both the PC and product.
- 2 Disconnect the cables from the product.
- 3 Power on the product.
- 4 If the message **Check Signal Cable** appears, the product is working normally.



If the screen remains blank, check the PC system, video controller and cable.

9.1.2 Checking the Resolution and Frequency

For a mode that exceeds the supported resolution (refer to "10.7 Standard Signal Mode Table"), the message **Not Optimum Mode** will appear for a short time.

9.1.3 Check the following.

Installation issue (PC mode)

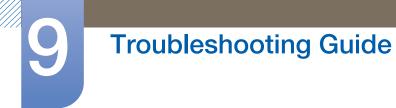
Issues	Solutions
The screen keeps switching on and off.	Check the cable connection between the product and PC, and ensure the connectors are locked.
	(Refer to "2.2 Connecting and Using a PC")



Troubleshooting Guide

Screen issue

Issues	Solutions	
The power LED is off. The screen will not switch on.	Check that the power cable is connected properly.	
	(Refer to "2.2 Connecting and Using a PC")	
The message Check Signal Cable appears.	Check that the cable is properly connected to the product.	
	(Refer to "2.2 Connecting and Using a PC")	
	Check that the device connected to the product is powered on.	
Not Optimum Mode is displayed.	This message appears when the signal from the graphics card exceeds the maximum resolution or frequency for the product.	
	Change the maximum resolution and frequency to suit the product performance, referring to Standard Signal Mode Table (page 100).	
The images on the screen look distorted.	Check the cable connection to the product.	
	(Refer to "2.2 Connecting and Using a PC")	
The screen is not clear. The screen is blurry.	Adjust Coarse and Fine.	
	Remove any accessories (video extension cable, etc.) and try again.	
	Set the resolution and frequency to the recommended level.	
The screen appears unstable and shaky.	Check that the resolution and frequency for the	
There are shadows or ghost images left on the screen.	PC are within the range of resolution and frequency compatible with the product. Next, if required, change the settings, referring to Standard Signal Mode Table (page 100) in this manual and the INFORMATION menu on the product.	
The screen is too bright. The screen is too dark.	Adjust Brightness and Contrast.	
Screen color is inconsistent.	Change the COLOR settings.	
The colors on the screen have a shadow and are distorted.	Change the COLOR settings.	
White does not really look white.	Change the COLOR settings.	
There is no image on the screen and the power	The product is operating in power-saving mode.	
LED blinks every 0.5 to 1 second.	Press any key on the keyboard or move the mouse to return to normal operating mode.	



Source device issue

Issues	Solutions
A beeping sound is heard when my PC is booting.	If a beeping sound is heard when your PC is booting, have your PC serviced.

9.2 Q & A

Question	Answer
How can I change the frequency?	 Set the frequency on your graphics card. Windows XP: Go to Control Panel → Appearance and Themes → Display → Settings → Advanced → Monitor, and adjust Refresh rate under Monitor settings.
	 Windows ME/2000: Go to Control Panel → Display → Settings → Advanced → Monitor, and adjust Refresh rate under Monitor settings.
	 Windows Vista: Go to Control Panel → Appearance and Personalization → Personalization → Display Settings → Advanced Settings → Monitor, and adjust Refresh rate under Monitor settings.
	 Windows 7: Go to Control Panel → Appearance and Personalization → Display → Screen Resolution → Advanced settings → Monitor, and adjust Refresh rate under Monitor settings.
	 Windows 8: Go to Settings → Control Panel → Appearance and Personalization → Display → Screen Resolution → Advanced settings → Monitor, and adjust Refresh rate under Monitor settings.

Troubleshooting Guide

Question	Answer
How can I change the resolution?	 Windows XP: Go to Control Panel → Appearance and Themes → Display → Settings, and adjust the resolution.
	• Windows ME/2000: Go to Control Panel \rightarrow Display \rightarrow Settings, and adjust the resolution.
	 Windows Vista: Go to Control Panel → Appearance and Personalization → Personalize → Display Settings, and adjust the resolution.
	 Windows 7: Go to Control Panel → Appearance and Personalization → Display → Adjust Resolution, and adjust the resolution.
	 Windows 8: Go to Settings → Control Panel → Appearance and Personalization → Display → Adjust Resolution, and adjust the resolution.
How do I set power-saving mode?	 Windows XP: Set power-saving mode in Control Panel → Appearance and Themes → Display → Screen Saver Settings or BIOS SETUP on the PC.
	 Windows ME/2000: Set power-saving mode in Control Panel → Display → Screen Saver Settings or BIOS SETUP on the PC.
	 Windows Vista: Set power-saving mode in Control Panel → Appearance and Personalization → Personalize → Screen Saver Settings or BIOS SETUP on the PC.
	 Windows 7: Set power-saving mode in Control Panel → Appearance and Personalization → Personalize → Screen Saver Settings or BIOS SETUP on the PC.
	 Windows 8: Set power-saving mode in Settings → Control Panel → Appearance and Personalization → Personalize → Screen Saver Settings or BIOS SETUP on the PC.



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Refer to the user manual for your PC or graphics card for further instructions on adjustment.

10.1 General (S19D300HY / S19D340HY / S19D300NY)

Model Name		S19D300HY / S19D300NY	S19D340HY		
Panel	Size	18.5 Inches (47 cm)			
	Display area	409.8 mm (H) x 230.4 mm (V)			
	(Minimum)	16.1 Inches (H) x 9.1 Inches (V)			
	Pixel Pitch	0.300 mm (H) x 0.300 mm (V)			
		0.012 Inches (H) x 0.012 Inches (V)			
Power Supply		This product supports 100-240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.			
Dimensions	Without	444.9 x 273.1 x 53.1 mm			
(W x H x D) / Weight	Stand	17.5 x 10.8 x 2.1 Inches			
Weight	With Stand	444.9 x 347.5 x 177.0 mm / 2.0 kg			
		17.5 x 13.7 x 7.0 Inches / 4.4 lbs	3		
VESA Mounting Inte	rface	75 mm x 75 mm			
		2.95 Inches x 2.95 Inches			
Environmental	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)			
considerations		Humidity : 10 % – 80 %, non-condensing			
	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)			
		Humidity : 5 % – 95 %, non-condensing			

Plug-and-Play

This monitor can be installed and used with any Plug-and-Play compatible systems. Two-way data exchange between the monitor and PC system optimizes the monitor settings. Monitor installation takes place automatically. However, you can customize the installation settings if desired.

Panel Dots (Pixels)

Due to the nature of the manufacturing of this product, approximately 1 pixel per million (1ppm) may be brighter or darker on the LCD panel. This does not affect product performance.

The above specifications are subject to change without notice to improve quality.



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This device is a Class B digital apparatus.



(USA only)

Dispose unwanted electronics through an approved recycler.

To find the nearest recycling location, go to our website:

10.2 General (S20D300BY / S20D300H / S20D340H / S20D300HY / S20D340HY)

Model Name		S20D300BY / S20D300H / S20D300HY	S20D340H / S20D340HY	
Panel	Size	19.5 Inches (49 cm)		
	Display area	432 mm (H) x 236.34 mm (V)		
	(Minimum)	17.01 Inches (H) x 9.30 Inches (V)		
	Pixel Pitch	0.27 mm (H) x 0.27 mm (V)		
		0.01 Inches (H) x 0.01 Inches (V)		
Power Supply		This product supports 100-240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.		
Dimensions	Without	476.2 x 299.8 x 53.0 mm		
(W x H x D) / Weight	Stand	18.7 x 11.8 x 2.1 Inches		
Veigin	With Stand	476.2 x 379.4 x 187.0 mm / 2.3 kg		
		18.7 x 14.9 x 7.4 Inches / 5.1 lbs		
Environmental	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)		
considerations		Humidity : 10 % – 80 %, non-condensing		
	Storage	Temperature : -4°F ~ 113°F (-20°	°C ~ 45°C)	
		Humidity : 5 % – 95 %, non-condensing		

Plug-and-Play

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This monitor can be installed and used with any Plug-and-Play compatible systems. Two-way data exchange between the monitor and PC system optimizes the monitor settings. Monitor installation takes place automatically. However, you can customize the installation settings if desired.

Panel Dots (Pixels)

Due to the nature of the manufacturing of this product, approximately 1 pixel per million (1ppm) may be brighter or darker on the LCD panel. This does not affect product performance.

The above specifications are subject to change without notice to improve quality.

Mathebra Class B digital apparatus.

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To find the nearest recycling location, go to our website:

10.3 General (S22D300BY / S22D300HY / S22D340HY / S22D300NY)

Model Name		S22D300BY / S22D300HY / S22D300NY	S22D340HY	
Panel	Size	21.5 Inches (54 cm)		
	Display area	476.64 mm (H) x 268.11 mm (V)		
	(Minimum)	18.77 Inches (H) x 10.56 Inches (V)		
	Pixel Pitch	0.24825 mm (H) x 0.24825 mm (V)		
		0.0098 Inches (H) x 0.0098 Inches (V)		
Power Supply		This product supports 100-240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.		
Dimensions	Without	511.6 x 310.8 x 53.1 mm		
(W x H x D) / Weight	Stand	20.1 x 12.2 x 2.1 Inches		
Weight	With Stand	511.6 x 385.2 x 177.0 mm / 2.90 kg		
		20.1 x 15.2 x 7.0 Inches / 6.39 lbs		
Environmental	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)		
considerations		Humidity : 10 % – 80 %, non-condensing		
	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)		
		Humidity : 5 % – 95 %, non-condensing		

Plug-and-Play

R

R

This monitor can be installed and used with any Plug-and-Play compatible systems. Two-way data exchange between the monitor and PC system optimizes the monitor settings. Monitor installation takes place automatically. However, you can customize the installation settings if desired.

Panel Dots (Pixels)

Due to the nature of the manufacturing of this product, approximately 1 pixel per million (1ppm) may be brighter or darker on the LCD panel. This does not affect product performance.

The above specifications are subject to change without notice to improve quality.

Mathebra Class B digital apparatus.

(USA only)

Dispose unwanted electronics through an approved recycler.

To find the nearest recycling location, go to our website:

10.4 General (S24D300BL / S24D300HL / S24D300H)

Model Name		S24D300BL	S24D300HL	S24D300H
Panel	Size	23.6 Inches (59 cm)		24 Inches (61 cm)
	Display area 521.28 mm (H) x 293.22 mm (V) (Minimum) 20.52 Inches (H) x 11.54 Inches (V)			531.36 mm (H) x 298.89 mm (V)
				20.92 Inches (H) x 11.77 Inches (V)
	Pixel Pitch			0.27675 mm (H) x 0.27675 mm (V)
				0.01090 Inches (H) x 0.01090 Inches (V)
Power Supply		This product supports 100-240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.		
Dimensions (W x H x D) /	Without Stand	569.0 x 342.1 x 53.9 mm 22.4 x 13.5 x 2.1 Inches		
Weight	With Stand	569.0 x 417.2 x 19 22.4 x 16.4 x 7.8 lr	C	569.0 x 417.2 x 197.0 mm / 3.15 kg
				22.4 x 16.4 x 7.8 Inches / 6.9 lbs
Environmental Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C)		°C)		
considerations		Humidity : 10 % – 80 %, non-condensing		g
	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Humidity : 5 % – 95 %, non-condensing		5°C)

Plug-and-Play

This monitor can be installed and used with any Plug-and-Play compatible systems. Two-way data exchange between the monitor and PC system optimizes the monitor settings. Monitor installation takes place automatically. However, you can customize the installation settings if desired.

Panel Dots (Pixels)

Due to the nature of the manufacturing of this product, approximately 1 pixel per million (1ppm) may be brighter or darker on the LCD panel. This does not affect product performance.



The above specifications are subject to change without notice to improve quality.

This device is a Class B digital apparatus.



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Dispose unwanted electronics through an approved recycler.

To find the nearest recycling location, go to our website:

10.5 General (S24D340HL / S24D340H)

Model Name		S24D340HL	S24D340H	
Panel	Size	23.6 Inches (59 cm) 24 Inches (61 cm)		
	Display area (Minimum)	521.28 mm (H) x 293.22 mm (V)	531.36 mm (H) x 298.89 mm (V)	
		20.52 Inches (H) x 11.54 Inches (V)	20.92 Inches (H) x 11.77 Inches (V)	
	Pixel Pitch	0.2715 mm (H) x 0.2715 mm (V)	0.27675 mm (H) x 0.27675 mm (V)	
		0.01069 Inches (H) x 0.01069 Inches (V)	0.01090 Inches (H) x 0.01090 Inches (V)	
Power Supply		This product supports 100-240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.		
Dimensions (W x H x D) /	Without Stand	569.0 x 342.1 x 53.9 mm 22.4 x 13.5 x 2.1 Inches		
Weight	With Stand	569.0 x 417.2 x 197.0 mm / 3.55 kg	569.0 x 417.2 x 197.0 mm / 3.15 kg	
		22.4 x 16.4 x 7.8 Inches / 7.8 lbs	22.4 x 16.4 x 7.8 Inches / 6.9 lbs	
Environmental considerations	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C) Humidity : 10 % – 80 %, non-condensing		
	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Humidity : 5 % – 95 %, non-condensing		

Riug-and-Play

This monitor can be installed and used with any Plug-and-Play compatible systems. Two-way data exchange between the monitor and PC system optimizes the monitor settings. Monitor installation takes place automatically. However, you can customize the installation settings if desired.

Panel Dots (Pixels)

Due to the nature of the manufacturing of this product, approximately 1 pixel per million (1ppm) may be brighter or darker on the LCD panel. This does not affect product performance.



The above specifications are subject to change without notice to improve quality.

This device is a Class B digital apparatus.



(USA only)

Dispose unwanted electronics through an approved recycler.

To find the nearest recycling location, go to our website:

10.6 PowerSaver

The power-saving function of this product reduces power consumption by switching off the screen and controlling the power LED status if the product is not used for a specified period of time. The power is not turned off in power-saving mode. To switch the screen back on, press any key on the keyboard or move the mouse. Power-saving mode functions only when the product is connected to a PC that has a power-saving function.

PowerSaver	Energy Star Test Condition	Power saving mode	Power off (Power Button)
Power Indicator	On	Blinking	Off
Power Consumption (S19D300HY)	Typical 13 W	Typical 0.3 W	Less than 0.3 W
Power Consumption (S19D340HY)	Typical 13 W	Typical 0.3 W	Less than 0.3 W
Power Consumption (S19D300NY)	Typical 13 W	Typical 0.3 W	Less than 0.3 W
Power Consumption (S20D300BY)	Typical 16 W	Typical 0.3 W	Less than 0.3 W
Power Consumption (S20D300H)	Typical 14 W	Typical 0.3 W	Less than 0.3 W
Power Consumption (S20D340H)	Typical 14 W	Typical 0.3 W	Less than 0.3 W
Power Consumption (S20D300HY)	Typical 16 W	Typical 0.3 W	Less than 0.3 W
Power Consumption (S20D340HY)	Typical 16 W	Typical 0.3 W	Less than 0.3 W
Power Consumption (S22D300BY)	Typical 22 W	Typical 0.3 W	Less than 0.3 W
Power Consumption (S22D300HY)	Typical 22 W	Typical 0.3 W	Less than 0.3 W
Power Consumption (S22D340HY)	Typical 22 W	Typical 0.3 W	Less than 0.3 W
Power Consumption (S22D300NY)	Typical 22 W	Typical 0.3 W	Less than 0.3 W

PowerSaver	Energy Star Test Condition	Power saving mode	Power off (Power Button)
Power Consumption (S24D300BL)	Typical 20 W	Typical 0.3 W	Less than 0.3 W
Power Consumption (S24D300HL)	Typical 20 W	Typical 0.3 W	Less than 0.3 W
Power Consumption (S24D340HL)	Typical 20 W	Typical 0.3 W	Less than 0.3 W
Power Consumption (S24D300H)	Typical 18 W	Typical 0.3 W	Less than 0.3 W
Power Consumption (S24D340H)	Typical 18 W	Typical 0.3 W	Less than 0.3 W

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- The power consumption level can vary in different operating conditions or when settings are changed. (S**D300 Model Power saving mode : Max 0.45 W)
- ENERGY STAR[®] is a US registered mark of the United States Environmental Protection Agency. Energy Star power is measured with the test method in the current Energy Star[®] Standard.
- To reduce the power consumption to 0 W, turn off the power switch on the back of the product or disconnect the power cable. Be sure to disconnect the power cable when you will not be using the product for an extended period of time. To reduce the power consumption to 0 W when the power switch is not available, disconnect the power cable.

10.7 Standard Signal Mode Table

- This product can be set to only one resolution for each screen size to obtain the optimum picture quality due to the nature of the panel. Therefore, a resolution other than the specified resolution may degrade the picture quality. To avoid this, it is recommended that you select the optimum resolution specified for the screen size of your product.
 - Check the frequency when you exchange a CDT monitor (connected to a PC) for an LCD monitor. If the LCD monitor does not support 85Hz, change the vertical frequency to 60Hz using the CDT monitor before you exchange it with the LCD monitor.

Model N	Name	S19D300HY / S19D340HY / S19D300NY	S20D300BY / S20D300H / S20D340H / S20D300HY / S20D340HY	S22D300BY / S22D300HY / S22D340HY / S22D300NY / S24D300BL / S24D300HL / S24D340HL / S24D340H / S24D340H
Synchronization Horizontal Frequency		30 ~ 81 kHz		
	Vertical Frequency	56 ~ 75 Hz		
Resolution	Optimum Resolution	1366 x 768 @ 60 Hz	1600 x 900 @ 60 Hz	1920 x 1080 @ 60 Hz
	Maximum Resolution	1366 x 768 @ 60 Hz	1600 x 900 @ 60 Hz	1920 x 1080 @ 60 Hz

If a signal that belongs to the following standard signal modes is transmitted from your PC, the screen will automatically be adjusted. If the signal transmitted from the PC does not belong to the standard signal modes, the screen may be blank even though the power LED turns on. In such a case, change the settings according to the following table by referring to the graphics card user manual.

Specifications

S19D300HY / S19D340HY / S19D300NY

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 720 x 400	31.469	70.087	28.322	-/+
VESA, 640 x 480	31.469	59.940	25.175	-/-
MAC, 640 x 480	35.000	66.667	30.240	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
MAC, 832 x 624	49.726	74.551	57.284	-/-
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1280 x 720	45.000	60.000	74.250	+/+
VESA, 1366 x 768	47.712	59.790	85.500	+/+

S20D300BY / S20D300H / S20D340H / S20D300HY / S20D340HY

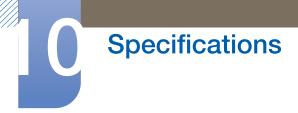
Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 720 x 400	31.469	70.087	28.322	-/+
VESA, 640 x 480	31.469	59.940	25.175	-/-
MAC, 640 x 480	35.000	66.667	30.240	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
MAC, 832 x 624	49.726	74.551	57.284	-/-
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1152 x 864	67.500	75.000	108.000	+/+
MAC, 1152 x 870	68.681	75.062	100.000	-/-
VESA, 1280 x 720	45.000	60.000	74.250	+/+
VESA, 1280 x 800	49.702	59.810	83.500	-/+
VESA, 1440 x 900	55.935	59.887	106.500	-/+
VESA, 1440 x 900	70.635	74.984	136.750	-/+
VESA, 1600 x 900 (RB)	60.000	60.000	108.000	+/+

S22D300BY / S22D300HY / S22D340HY / S22D300NY / S24D300BL / S24D300H / S24D340H / S24D300HL / S24D340HL

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 720 x 400	31.469	70.087	28.322	-/+
MAC, 640 x 480	35.000	66.667	30.240	-/-
MAC, 832 x 624	49.726	74.551	57.284	-/-
MAC, 1152 x 870	68.681	75.062	100.000	-/-
VESA, 640 x 480	31.469	59.940	25.175	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1152 x 864	67.500	75.000	108.000	+/+
VESA, 1280 x 720	45.000	60.000	74.250	+/+
VESA, 1280 x 800	49.702	59.810	83.500	-/+
VESA, 1280 x 1024	63.981	60.020	108.000	+/+
VESA, 1280 x 1024	79.976	75.025	135.000	+/+
VESA, 1440 x 900	55.935	59.887	106.500	-/+
VESA, 1600 x 900 (RB)	60.000	60.000	108.000	+/+
VESA, 1680 x 1050	65.290	59.954	146.250	-/+
VESA, 1920 x 1080	67.500	60.000	148.500	+/+

• Horizontal Frequency

The time required to scan a single line from the left to the right side of the screen is called a horizontal cycle. The reciprocal number of a horizontal cycle is called horizontal frequency. Horizontal frequency is measured in kHz.



Vertical Frequency

Repeating the same picture dozens of times per second allows you to view natural pictures. The repeat frequency is called "vertical frequency" or "refresh rate" and is indicated in Hz.

Contact SAMSUNG WORLD WIDE



If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

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		http://www.samsung.com/ca_fr (French)	

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VENEZUELA	0-800-100-5303	http://www.samsung.com/ve	

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Responsibility for the Pay Service (Cost to Customers)



When the service is requested, in spite of in warranty, we may charge you for a visit from a service technician in the following cases.

Not a product defect

Cleaning of the product, Adjustment, Explanation, Re-installation and etc.

- If a service technician gives instructions on how to use product or simply adjusts options without disassembling product.
- If a defect is caused by external environmental factors. (Internet, Antenna, Wired Signal, etc.)
- If a product is reinstalled or devices are connected additionally after installing the purchased product for the first time.
- If a product is reinstalled to move to a different spot or to move to a different house.
- If customer requests instructions on how to use because of another company's product.
- If customer requests instructions on how to use the network or another company's program.
- If customer requests software installation and setup for the product.
- If a service technician removes/cleans dusts or foreign materials inside of the product.
- If customer requests an installation additionally after purchasing a product through home-shopping or online.

A Product damage caused by customer's fault

Product damage caused by customer's mishandling or wrong repair

If a product damage is caused by;

- external impact or drop.
- use of supplies or separately sold product unspecified by Samsung.
- repair from a person besides an engineer of outsourcing service company or partner of Samsung Electronics Co., Ltd.
- remodeling or repairing the product by customer.
- using it with incorrect voltage or non-authorised electrical connections.
- not following the "cautions" in User Manual.

Others

- If product fails by natural disaster. (lightning, fire, earthquake, flood damage, etc)
- If consumable components are all used up. (Battery, Toner, Fluorescent lights, Head, Vibrator, Lamp, Filter, Ribbon, etc.)



If customer requests a service in case the product has no defect, service fee may be charged. So please read User Manual first.

Correct Disposal

Correct Disposal of This Product (Waste Electrical & Electronic Equipment)



(Applicable in countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

Terminology

OSD (On Screen Display)

On screen display (OSD) allows you to customize on-screen settings to optimize the picture quality as required. You can change the screen brightness, tint, size and many other settings using menus displayed on the screen.

Gamma

The Gamma menu adjusts the grey scale that represents middle tones on the screen. Adjusting the brightness brightens the whole screen, but adjusting Gamma only brightens the medium brightness.

Grey scale

Scale refers to levels of color intensity that show variations of color change from darker areas to brighter areas on the screen. Changes to the screen brightness are expressed with black and white variation, and grey scale refers to the medium area between black and white. Changing the grey scale through Gamma adjustment will change the medium brightness on the screen.

Scanning rate

Scanning rate, or refresh rate, refers to the frequency of screen refreshes. Screen data is transmitted as it refreshes to display an image, although the refreshing is invisible to the naked eye. The number of screen refreshes is called scanning rate and is measured in Hz. A scanning rate of 60Hz means that the screen refreshes 60 times per second. The screen scanning rate depends on the performance of the graphics cards in your PC and monitor.

Horizontal Frequency

Characters or images displayed on the monitor screen consist of numerous dots (pixels). Pixels are transmitted in horizontal lines, which are then arranged vertically to create an image. The horizontal frequency is measured in kHz and represents how many times horizontal lines per second are transmitted and displayed on the monitor screen. A horizontal frequency of 85 means that the horizontal lines that make up an image are transmitted 85000 times per second. The horizontal frequency is indicated in 85kHz.

Vertical Frequency

One image is made of numerous horizontal lines. The vertical frequency is measured in Hz and represents how many images can be created per second by those horizontal lines. A vertical frequency of 60 means that an image is transmitted 60 times per second. The vertical frequency is also called "refresh rate" and affects screen flicker.

Resolution

Resolution is the number of horizontal pixels and vertical pixels that form a screen. It represents the level of display detail.

A higher resolution displays a greater amount of information on the screen and is suitable for performing multiple tasks at the same time.

E.g. A resolution of 1366 x 768 consists of 1366 horizontal pixels (horizontal resolution) and 768 vertical lines (vertical resolution).

E.g. A resolution of 1920 x 1080 consists of 1920 horizontal pixels (horizontal resolution) and 1080 vertical lines (vertical resolution).

Plug & Play

The Plug & Play feature allows the automatic exchange of information between a monitor and PC to produce an optimum display environment.

The monitor uses VESA DDC (international standard) to execute Plug & Play.

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