SAMSUNG

LCD Monitor
User Manual

S34E790C

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

BN46-00442A-05

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Chapter 01
Before Using the Product

Copyright

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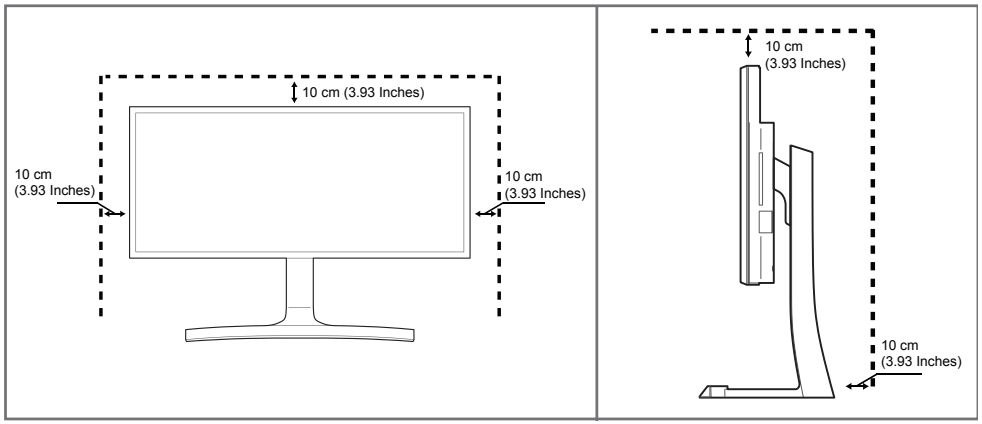
Ownership of all other trademarks is attributed to their due owner.

- 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 centre 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.

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

High-glossy models can develop white stains on the surface if an ultrasonic wave humidifier is used nearby.

— Contact your nearest Samsung Customer Service Centre if you want to clean the inside of the product (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

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.

Activities marked by this symbol are prohibited.

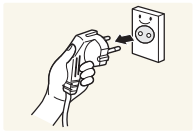
Instructions marked by this symbol must be followed.

Cleaning

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

— Take the following steps when cleaning.

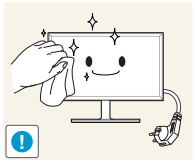
— The following images are for reference only. Real-life situations may differ from what is shown in the images.



1 Power off the product and computer.

2 Disconnect the power cord from the product.

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



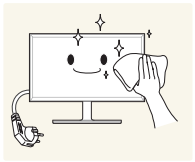
3 Wipe the monitor with a clean, soft and dry cloth.



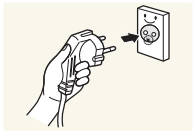
- Do not apply a cleaning agent that contains alcohol, solvent, or surfactant to the monitor.



- 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 product.



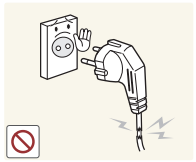
5 Connect the power cord to the product when cleaning is finished.

6 Power on the product and computer.

Electricity and Safety

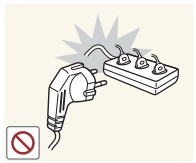
— The following images are for reference only. Real-life situations may differ from what is shown in the images.

Warning



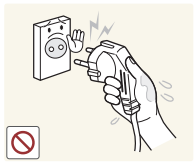
Do not use a damaged power cord or plug, or a loose power socket.

- An electric shock or fire may result.

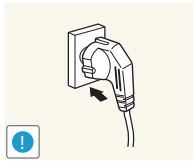


Do not use multiple products with a single power socket.

- Overheated power sockets may cause a fire.

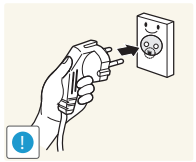


Do not touch the power plug with wet hands. Otherwise, an electric shock may result.



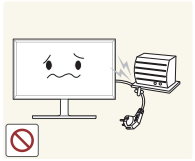
Insert the power plug all the way in so it is not loose.

- An unsecure connection may cause a fire.



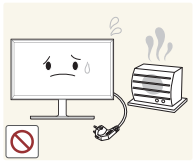
Connect the power plug to a grounded power socket (type 1 insulated devices only).

- An electric shock or injury may result.



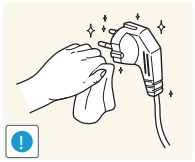
Do not bend or pull the power cord with force. Be careful not to leave the power cord under a heavy object.

- Damage to the cord may result in a fire or electric shock.



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

- A fire or electric shock may result.



Clean any dust around the pins of the power plug or the power socket with a dry cloth.

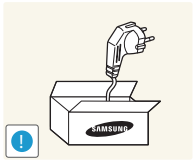
- A fire may result.

Caution



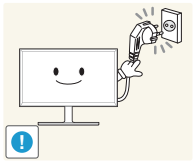
Do not disconnect the power cord while the product is being used.

- The product may become damaged by an electric shock.



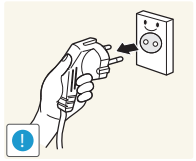
Only use the power cord provided with your product by Samsung. Do not use the power cord with other products.

- A fire or electric shock may result.



Keep the power socket where the power cord is connected unobstructed.

- The power cord must be disconnected to cut off power to the product when an issue occurs.



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

- An electric shock or fire may result.

Installation

Warning



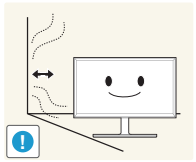
DO NOT PLACE CANDLES, INSECT REPELLANTS OR CIGARETTES ON TOP OF THE PRODUCT. DO NOT INSTALL THE PRODUCT NEAR HEAT SOURCES.

- A fire may result.



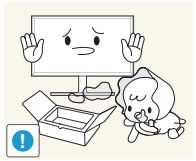
Do not install the product in poorly ventilated spaces such as a bookcase or closet.

- An increased internal temperature may cause a fire.



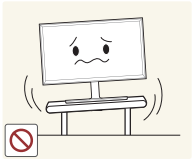
Install the product at least 10cm away from the wall to allow ventilation.

- An increased internal temperature may cause a fire.



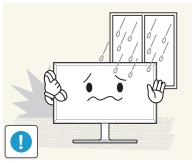
Keep the plastic packaging out of the reach of children.

- Children may suffocate.



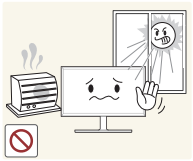
Do not install the product on an unstable or vibrating surface (insecure shelf, sloped surface, etc.)

- The product may fall and become damaged and/or cause an 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.

- A fire or electric shock may result.



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

- The product lifespan may be reduced or a fire may result.



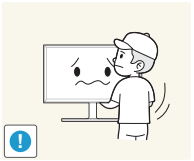
Do not install the product within the reach of young children.

- The product may fall and injure children.



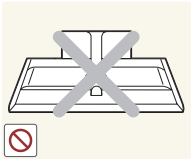
Edible oil, such as soybean oil, can damage or deform the product. Do not install the product in a kitchen or near a kitchen counter.

Caution



Do not drop the product while moving.

- 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 become damaged and/or cause an injury.
- Install the product only on cabinets or shelves of the right size.



Set down the product gently.

- Product failure or personal injury may result.



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 Centre if you want to install the product at such a place.

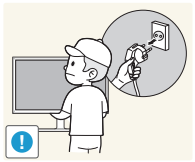
Operation

Warning



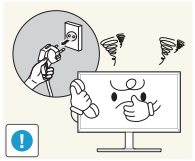
There is a high voltage inside the product. Never disassemble, repair or modify the product yourself.

- A fire or electric shock may result.
- Contact Samsung Customer Service Centre for repairs.



To move the product, first disconnect all the cables from it, including the power cable.

- Damage to the cord may result in a fire or electric shock.



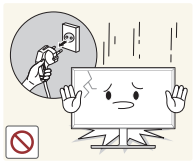
If the product generates abnormal sounds, a burning smell or smoke, disconnect the power cord immediately and contact Samsung Customer Service Centre.

- An electric shock or fire may result.



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

- Children may become injured or seriously harmed.



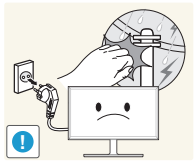
If the product is dropped or the outer case is damaged, turn off the power switch and disconnect the power cord. Then contact Samsung Customer Service Centre.

- Continued use can result in a fire or electric shock.



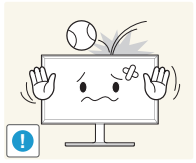
Do not leave heavy objects or items that children like (toys, sweets, etc.) on top of the product.

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



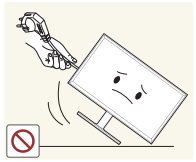
During a lightning or thunderstorm, power off the product and remove the power cable.

- A fire or electric shock may result.



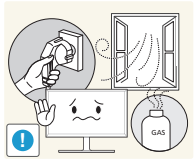
Do not drop objects on the product or apply impact.

- A fire or electric shock may result.



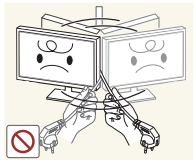
Do not move the product by pulling the power cord or any cable.

- Product failure, an electric shock or fire may result from a damaged cable.



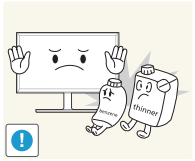
If a gas leakage is found, do not touch the product or power plug. Also, ventilate the area immediately.

- Sparks can cause an explosion or fire.



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

- Product failure, an electric shock or fire may result from a damaged cable.



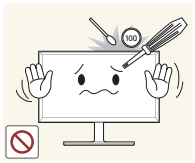
Do not use or keep combustible spray or an inflammable substance near the product.

- An explosion or fire may result.



Ensure the vents are not blocked by tablecloths or curtains.

- An increased internal temperature may cause a fire.



Do not insert metallic objects (chopsticks, coins, hairpins, etc) or objects that burn easily (paper, matches, etc) into the product (via the vent or input/output ports, etc).

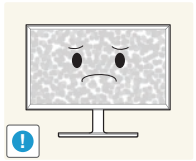
- Be sure to power off the product and disconnect the power cord when water or other foreign substances have entered the product. Then contact Samsung Customer Service Centre.
- Product failure, an electric shock or fire may result.



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

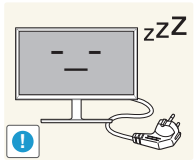
- Be sure to power off the product and disconnect the power cord when water or other foreign substances have entered the product. Then contact Samsung Customer Service Centre.
- Product failure, an electric shock or fire may result.

Caution



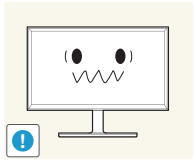
Leaving the screen fixed on a stationary image for an extended period of time may cause afterimage burn-in or defective pixels.

- Activate power-saving mode or a moving-picture screen saver if you will not be using the product for an extended period of time.



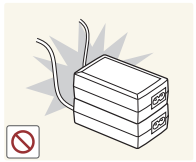
Disconnect the power cord from the power socket if you do not plan on using the product for an extended period of time (vacation, etc).

- Dust accumulation combined with heat can cause a fire, electric shock or electric leakage.



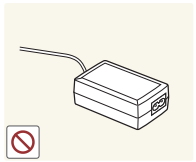
Use the product at the recommended resolution and frequency.

- Your eyesight may deteriorate.



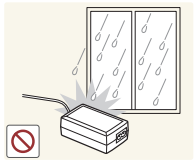
Do not put DC power adapters together.

- Otherwise, a fire may result.



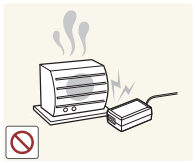
Remove the plastic bag from the DC power adapter before you use it.

- Otherwise, a fire may result.



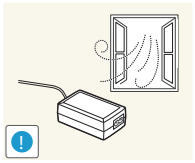
Do not let water enter the DC power device or get the device wet.

- 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.

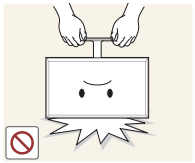


Do not put the DC power adapter near to any heating apparatus.

- Otherwise, a fire may result.

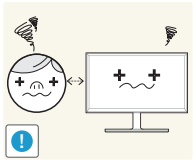


Keep the DC power adapter in a well-ventilated area.



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

- The product may fall and become damaged or cause an injury.

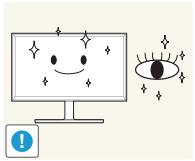


Looking at the screen too close for an extended period of time can deteriorate your eyesight.



Do not use humidifiers or stoves around the product.

- A fire or electric shock may result.

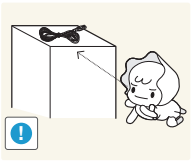


Rest your eyes for more than 5 minutes for every 1 hour of product use.

- 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 small accessories out of the reach of children.



Exercise caution when adjusting the product angle or stand height.

- Your hand or finger may get stuck and injured.
- Tilting the product at an excessive angle may cause the product to fall and an injury may result.



Do not place heavy objects on the product.

- Product failure or personal injury may result.



When using headphones or earphones, do not turn the volume too high.

- Having the sound too loud may damage your hearing.

Correct posture to use the product



Use the product in the correct posture as follows:

- Straighten your back.
- Allow a distance of 45 to 50cm 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.

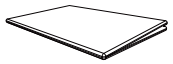
Chapter 02
Preparations

Checking the Components

- Contact the vendor where you purchased the product if any components are missing.
- The appearance of the components may differ from the images shown.
- Recommend to use the HDMI cable and DP cable which is provided by the supplier.
- The optimal resolution may not be available when using a non-high speed HDMI or HDMI-DVI cable.
- To ensure that the screen displays properly, a DP cable that supports 3440 x 1440 @ 60 Hz is recommended. An HDMI cable that supports 3440 x 1440 @ 50 Hz will also work.
- The Mini DP to DP gender changer may not be provided, depending on the model.

Components

— Components may vary depending on the country.



Quick Setup Guide

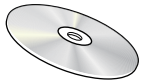


Warranty card

(Not available in some locations)



Regulatory guide



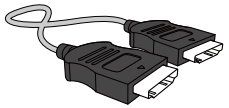
User manual



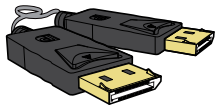
Power cable (P.25)



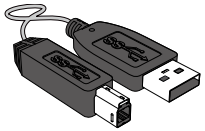
DC power adapter (Detachable) (P.25)



HDMI cable (P.23)



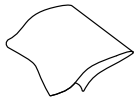
DP cable (P.24)



USB 3.0 cable (P.27)



Mini DP to DP gender (Optional)

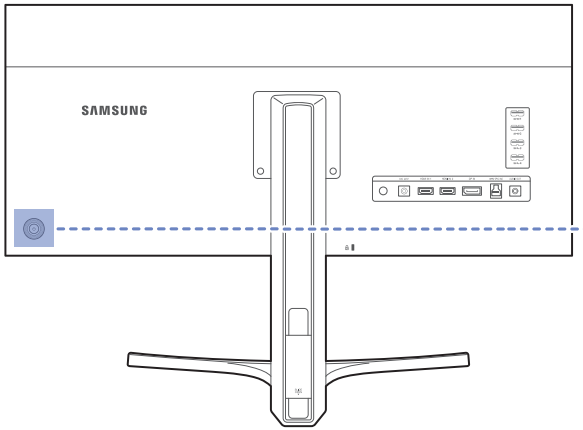


Cleaning cloth

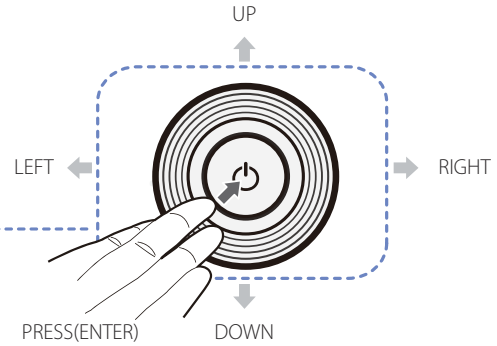
Parts

Control Panel

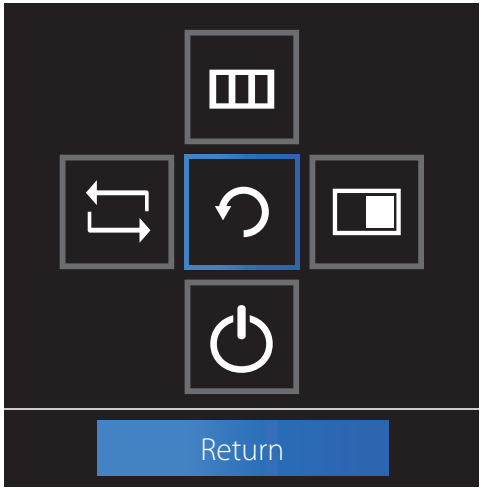
— The colour and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.



JOG Button



Function Key Guide



Icons	Description
JOG Button	Multi directional button that helps navigate. — The JOG button is located on the rear left side of the product. The button can be used to move up, down, left or right, or as Enter.
Function Key Guide	Press the JOG button when the screen is turned on. The Function Key Guide will appear. To access the onscreen menu when the guide is displayed, press the corresponding direction button again. — Function Key Guide may vary depending on the function or product model. Please refer to the actual product.

Direct Key guide



— The shortcut button screen (OSD menu) shown below is displayed only when the monitor screen is turned on, the computer resolution changes, or the input source changes.

UP/DOWN: Adjust **Brightness**, **Contrast**, **Sharpness**.

LEFT/RIGHT: Adjust **Volume**.

PRESS(ENTER): Display Function Key Guide.

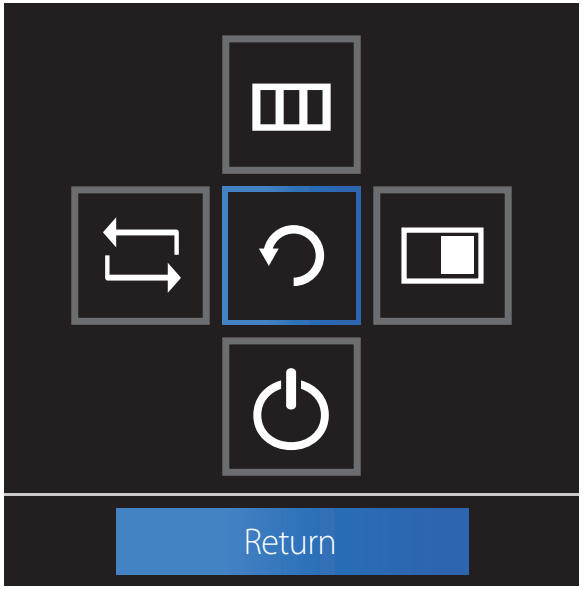
— The function buttons page shows if **Game Mode** is enabled.

: **Off**

: **On**

Function Key Guide

— To enter the main menu or to use other items, press the JOG button to display the Function Key Guide. You can exit by pressing the JOG button again.



UP/DOWN/LEFT/RIGHT: Move to the item you want. The description for each item will appear when the focus changes.

PRESS(ENTER): The selected item will be applied.

Icons	Description
	Selects to change the input signal by moving the JOG button in the Function Key Guide screen. A message will appear on the top left corner of the screen if the input signal has been changed.
	Selects by moving the JOG button in the function key guide screen. The OSD (On Screen Display) of your Monitor's feature appears. OSD control lock: Maintain the current settings, or lock the OSD control to prevent unintended changes to settings. Enable/Disable: To lock/unlock the OSD control, press the LEFT button for 10 seconds when the main menu displayed. — If the OSD control is locked, **Brightness** and **Contrast** can be adjusted. **PIP/PBP** is available. **Information** can be viewed.
	Selects by moving the JOG button in the function key guide screen. Press the button when configuring settings for the **PIP/PBP** function is required.
	Selects to turn the Monitor off by moving the JOG button in the function key guide screen.

— Actual models because of functional variation, Function key guide options will be different. Please run the corresponding function based on the actual icon and description.

— When the monitor displays nothing (i.e. Power saving mode or Non-signal mode), 2 direct keys for control source and power could be used as below.

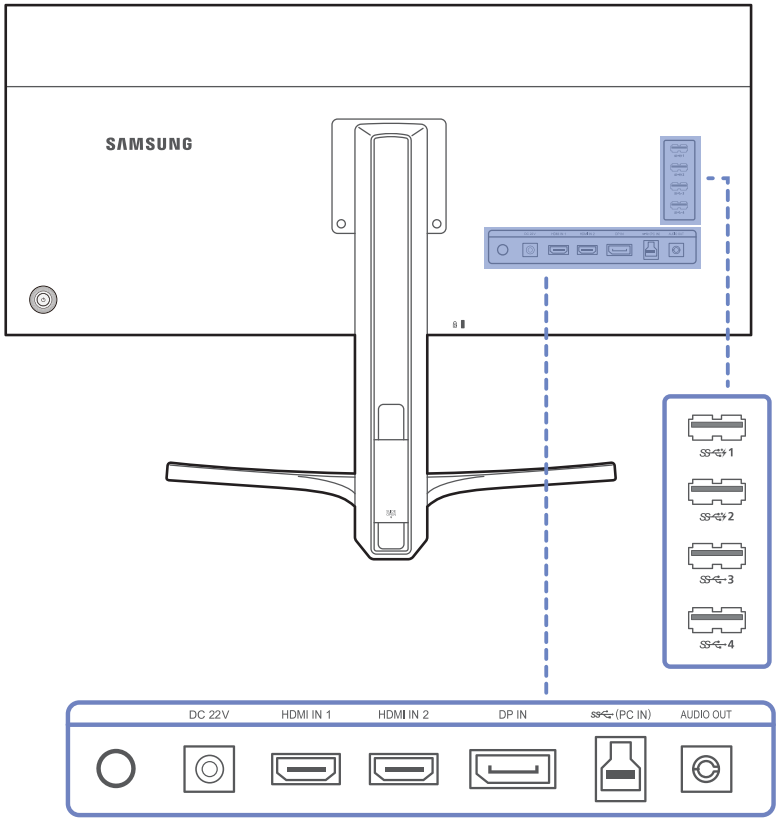
JOG Button	Power saving/Non-signal mode
UP	Source Change
Down	
PRESS(ENTER) for 2 seconds	Power Off

— When the monitor displays the Main menu the JOG Button could be used as below.

JOG Button	Action
UP/DOWN	Move the option
LEFT	Exit the Main menu. Close Sublist without saving value. Value decreases in the slider.
RIGHT	Move to next depth. Value increases in the slider.
PRESS(ENTER)	Move to next depth. Save the value and close Sublist.

Reverse Side

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

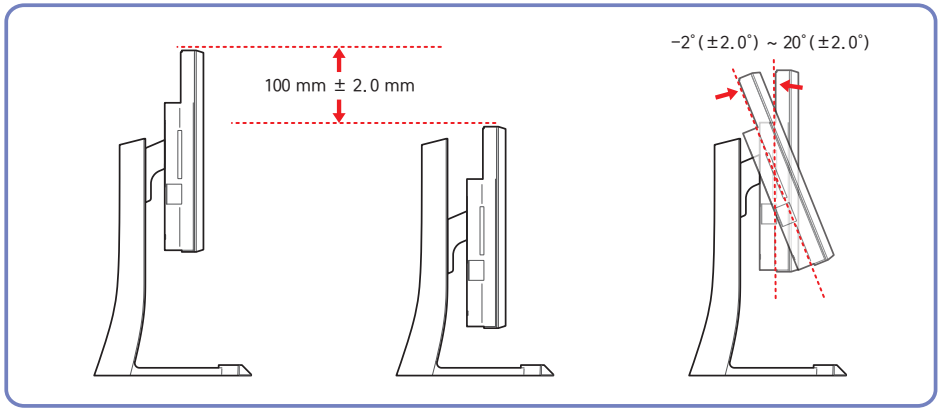


Port	Description
DC 22V	Connects to the DC power adapter.
HDMI IN 1 HDMI IN 2	Connects to a source device using an HDMI cable or HDMI-DVI cable.
DP IN	Connects to a PC using a DP cable.
SS (PC IN)	Connects to a PC using a USB cable. — This port can only connect to a PC.
AUDIO OUT	Connect to an audio output device such as headphones. — The sound could only be heard when using the HDMI to HDMI cable or DP cable.
SS 1 SS 2 SS 3 SS 4	Connect to a USB device. Compatible with a USB cable version 3.0 or lower. — Source devices can be charged using these USB ports. — To use the **USB Super Charging** feature, go to **Settings** ⟶ **USB Super Charging** and set the USB port that will be used for fast charging to **On**. The USB data transfer feature is not available when the **USB Super Charging** feature is set to **On**. — High-speed charging is possible using the SS 1 and SS 2 ports only. These ports charge devices faster than typical USB ports. The speed depends on the connected devices.

Installation

Adjusting the Product Tilt and Height

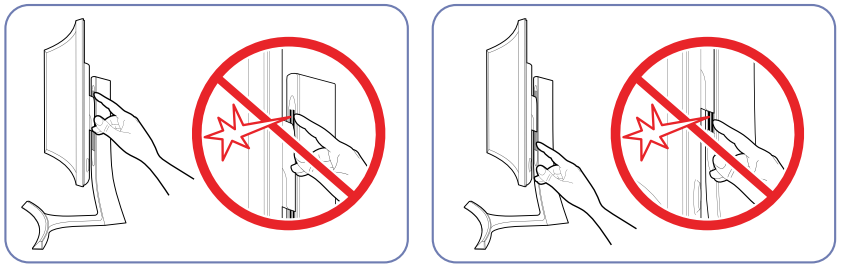
— The colour and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.



- The monitor tilt and height can be adjusted.
- To avoid damage to the product when adjusting the tilt, push or pull the top area of the product at the centre while holding the top of the stand.

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

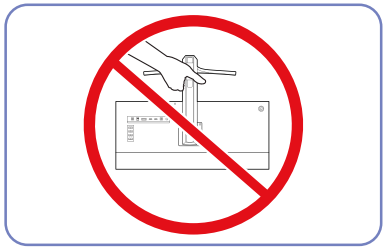
Caution



Take extra care to ensure your hand does not get stuck in the height adjustment area. This could injure your hand.



Do not put the hand below the stand body.



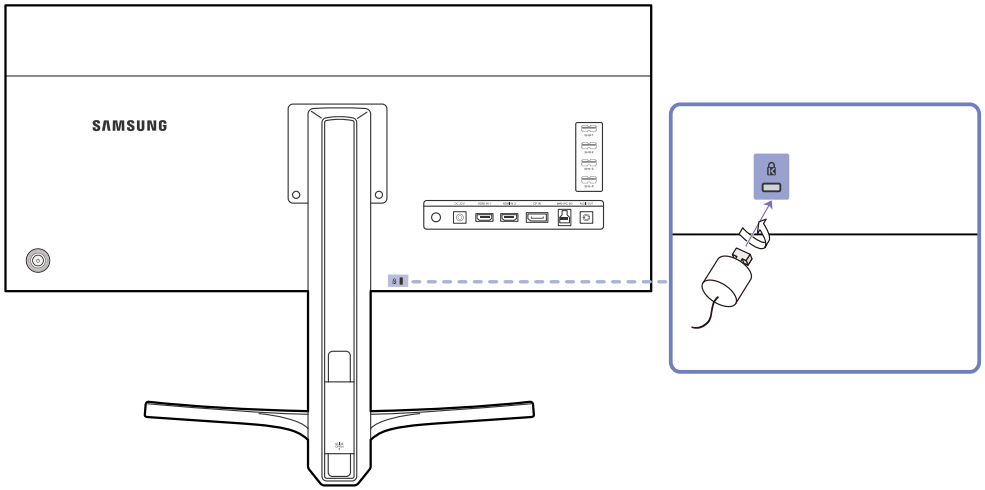
Do not hold the product upside down only by the stand.

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.

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 locking device into the anti-theft lock slot at the back of the product.

4 Lock the locking device.

- 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.

Chapter 03
Connecting and Using a Source Device

Before Connecting

Check the following before you connect this product with other devices.

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.

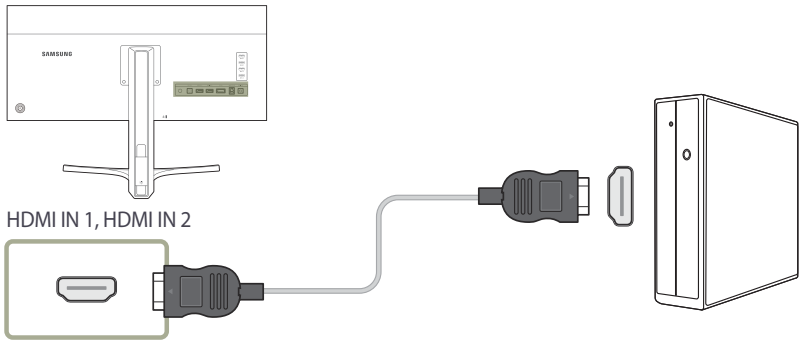
Connecting and Using a PC

Select a connection method suitable for your PC.

— Connecting parts may differ in different products.

Connection Using the HDMI Cable

— 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 IN 1** or **HDMI IN 2** port on the back of the product to the HDMI port on the PC using an HDMI cable.

2 Connect the DC power adapter to the product and a power socket. Next, turn on the power switch on the PC.

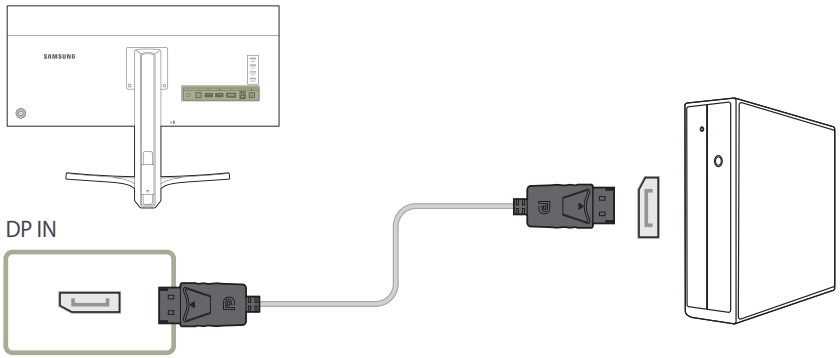
3 Change the input source to **HDMI 1** or **HDMI 2** controlling the JOG button UP/DOWN, when input source is not set.

— Provided ports may vary depending on the product.

— To display 3440 x 1440 @ 50 Hz, use an HDMI cable that supports 3440 x 1440 @ 50 Hz. Make sure that the graphics card of the HDMI source supports 3440 x 1440 @ 50 Hz.

Connection Using the DP Cable

— 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 DP cable to the **DP IN** port on the back of the product and the DP port on the PC.

2 Connect the DC power adapter to the product and a power socket. Next, turn on the power switch on the PC.

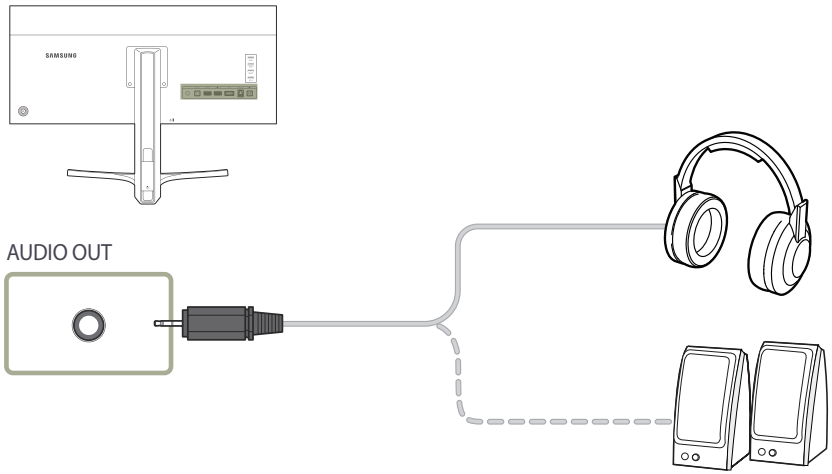
3 Change the input source to **DisplayPort** controlling the JOG button UP/DOWN, when input source is not set.

— Provided ports may vary depending on the product.

— To display 3440 x 1440 @ 60 Hz, use a DP cable that supports 3440 x 1440 @ 60 Hz. Make sure that the graphics card of the DP source supports 3440 x 1440 @ 60 Hz.

Connecting to Headphones or Speakers

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

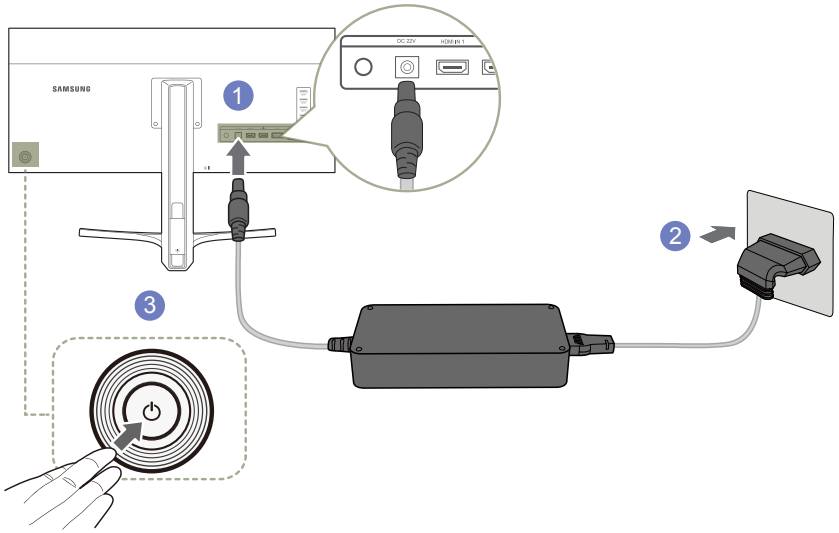


1 Connect an audio output device such as headphones or speakers to **AUDIO OUT** on the product.

— The sound could only be heard when using the HDMI to HDMI cable or DP cable.

Connecting the Power

Power connection using detachable DC power adapter



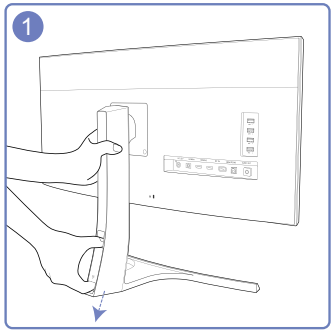
1 Connect the power cable to the DC power adapter. Then, connect the DC power adapter to the **DC 22V** port on the back of the product.

2 Next, connect the power cable to the power outlet.

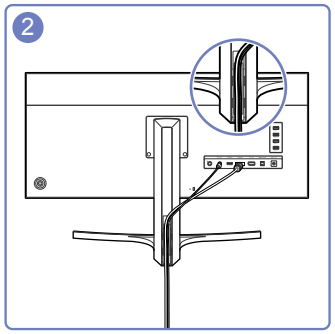
3 Press the JOG button on the back of the monitor to turn it on.

— The input voltage is switched automatically.

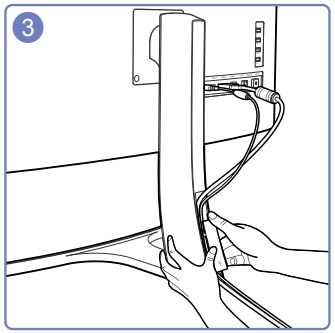
Tidying Up the Connected Cables



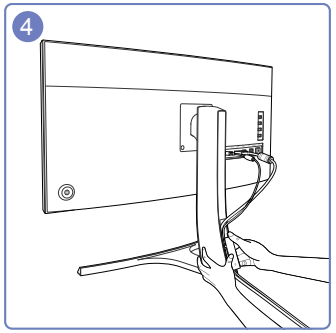
To remove the COVER-CABLE, hold and pull the COVER-CABLE with your thumb and index finger in the arrow direction while holding the stand with the other hand.



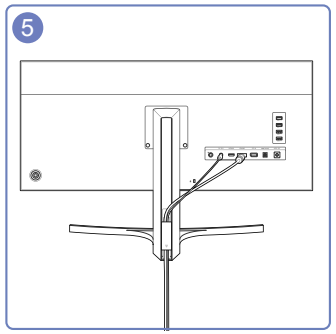
Insert and fix the cables in the slot.



Hold the COVER-CABLE and fix the cables into the grooves on the STAND-REAR.



Hold the bottom of the stand neck securely with your left hand and use the thumb of your right hand to slide up the COVER-CABLE to fix it in place.



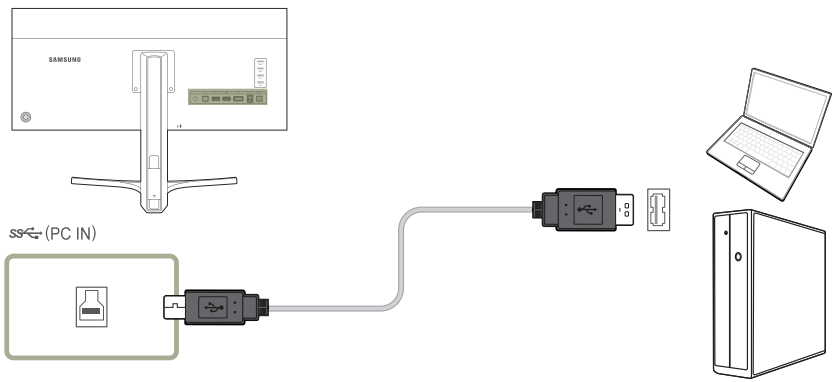
Installation is finished.

Connecting the Product to a PC as a USB HUB

Connecting a PC to the Product

— The product can function as a HUB by connecting to a PC via a USB cable. You can connect a source device directly to the product and control the device from the product, without having to connect the device to the PC.

To use the product as a USB hub, connect the product to a PC using a USB cable.



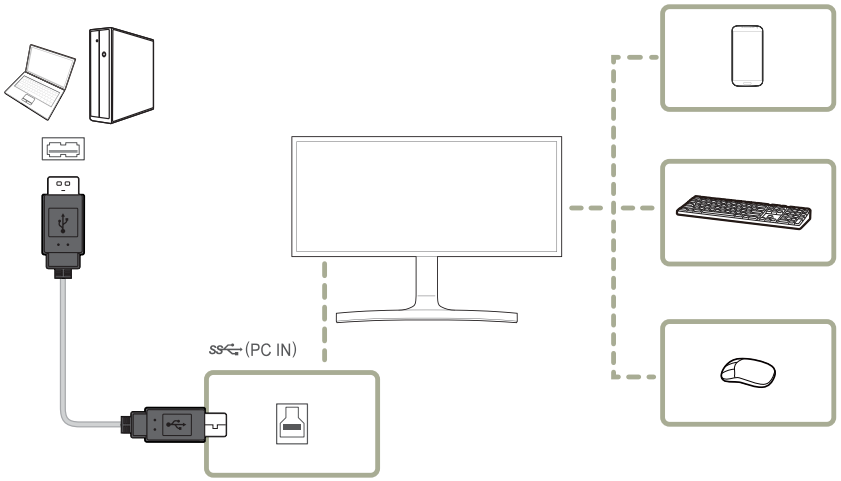
Connect the USB cable to on the back of the product and USB on the PC.

— A USB 2.0 cable can be used to connect the product to a PC. However, to take full advantage of the USB 3.0 function, connect a USB 3.0 cable between the PC and the product. Ensure the PC supports USB 3.0.

Utilizing the Product as a USB HUB

Using the product as a hub, connect and use various source devices with the product at the same time.

A PC cannot connect to multiple source devices at the same time as it has a limited number of input/output ports available. The HUB feature on the product will improve your work efficiency by allowing you to connect multiple source devices to the USB ports on the product at the same time without connecting them to a PC.



If multiple source devices are connected to the PC, the many cables around the PC may look messy. Connecting the devices directly to the product will resolve such inconvenience.

Connect a mobile device such as an MP3 player or smartphone to the product when connected to a PC. This allows you to control the device from the PC or charge the device battery.

- To detect and start a source device faster, connect the device to the USB 3.0 port on the product.
- An external mass-storage HDD requires an external power supply. Be sure to connect it to a power source.
- High-speed charging is possible using the SS 1 and SS 2 ports only. These ports charge devices faster than typical USB ports. The speed depends on the connected devices.
- Battery charging is possible in power-saving mode. However, it is not possible when the product is powered off.
- To charge a battery, make sure that the USB upstream port on the product is connected to a PC via a USB cable.
- Battery charging is not possible if the power cable is disconnected from the power socket.
- Mobile devices should be purchased separately.

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.

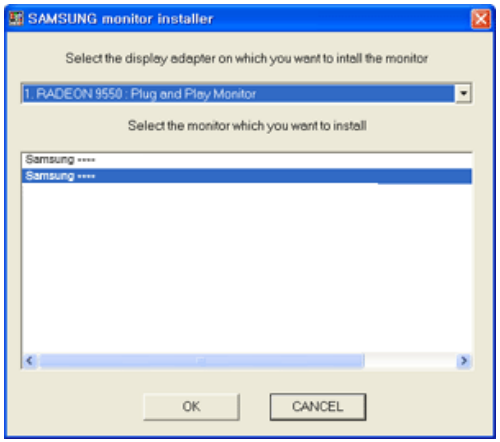
— If the file provided is faulty, visit the Samsung homepage (http://www.samsung.com/) and download the file.

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.



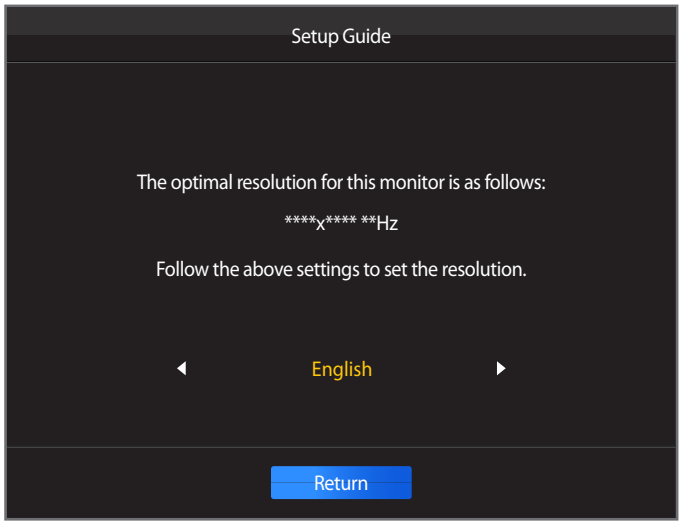
5 Go to Display Properties and check that the resolution and refresh rate are appropriate.

Refer to your Windows OS manual for further details.

Setting Optimum Resolution

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.



1 Select a language by moving the JOG button LEFT/RIGHT. Next, press the JOG button.

2 To hide the information message, press the JOG button.

— 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.

Chapter 04
Screen Setup

Configure the screen settings such as brightness.

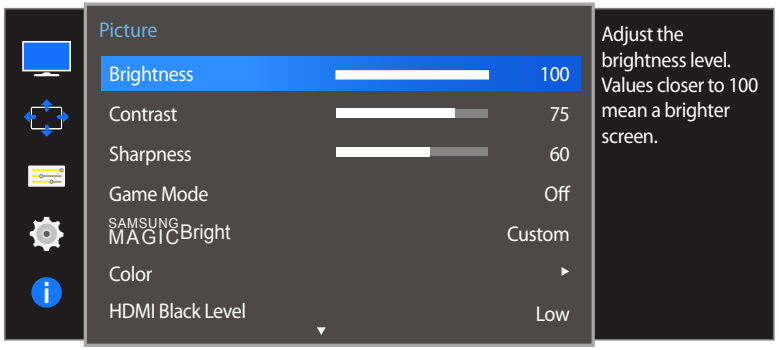
A detailed description of each function is provided. Refer to your product for details.

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 SAMSUNG MAGIC**Bright** is set to **Dynamic Contrast** mode.
- This menu is not available when **Eco Saving** is set .



- The displayed image may differ depending on the model.

Configuring Brightness

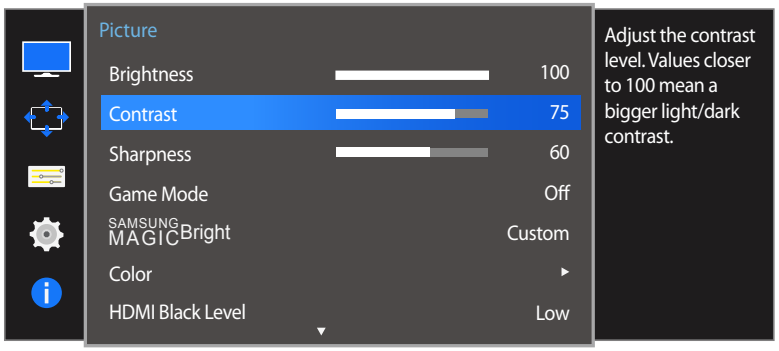
1. When the Function Key Guide appears, select by moving the JOG button UP. Next, press the JOG button.
2. Move to **Picture** controlling the JOG button UP/DOWN and press the JOG button.
3. Move to **Brightness** controlling the JOG button UP/DOWN and press the JOG button.
4. Adjust the **Brightness** controlling the JOG button LEFT/RIGHT.
5. The selected option will be applied.

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 SAMSUNG MAGIC**Bright** is in **Cinema** or **Dynamic Contrast** mode.
- This menu is not available when **Game Mode** is enabled.
- This menu is not available when **PIP/PBP Mode** is set to **On** and the **Size** is set to (PBP Mode).



– The displayed image may differ depending on the model.

Configuring Contrast

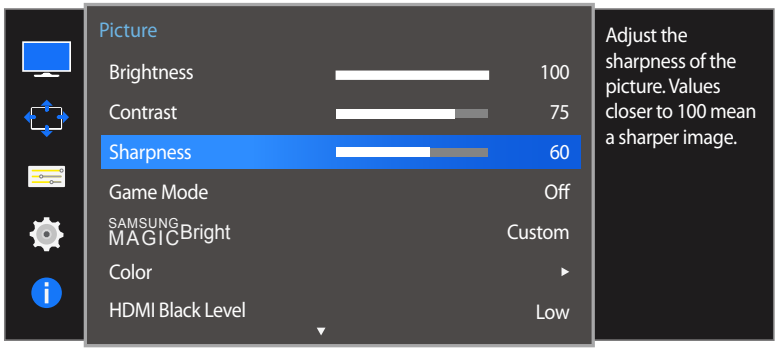
1. When the Function Key Guide appears, select by moving the JOG button UP. Next, press the JOG button.
2. Move to **Picture** controlling the JOG button UP/DOWN and press the JOG button.
3. Move to **Contrast** controlling the JOG button UP/DOWN and press the JOG button.
4. Adjust the **Contrast** controlling the JOG button LEFT/RIGHT.
5. The selected option will be applied.

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 SAMSUNG MAGIC**Bright** is in **Cinema** or **Dynamic Contrast** mode.
- This menu is not available when **Game Mode** is enabled.
- Not available when **PIP/PBP Mode** is set to **On**.



– The displayed image may differ depending on the model.

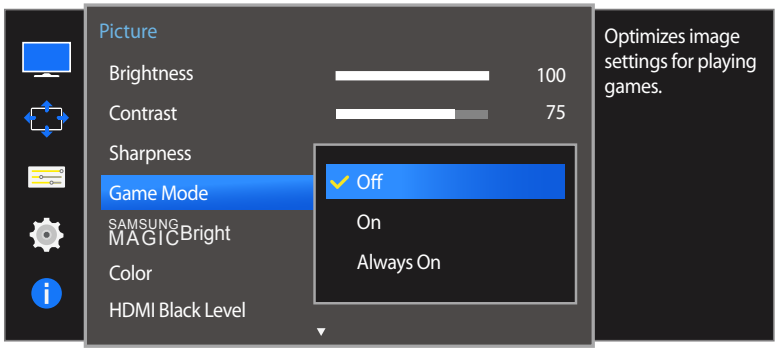
Configuring Sharpness

1. When the Function Key Guide appears, select by moving the JOG button UP. Next, press the JOG button.
2. Move to **Picture** controlling the JOG button UP/DOWN and press the JOG button.
3. Move to **Sharpness** controlling the JOG button UP/DOWN and press the JOG button.
4. Adjust the **Sharpness** controlling the JOG button LEFT/RIGHT.
5. The selected option will be applied.

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 displayed image may differ depending on the model.

Configuring Game Mode

1 When the Function Key Guide appears, select ▥ by moving the JOG button UP. Next, press the JOG button.

2 Move to **Picture** controlling the JOG button UP/DOWN and press the JOG button.

3 Move to **Game Mode** controlling the JOG button UP/DOWN and press the JOG button.

4 Move to the desired option controlling the JOG button UP/DOWN and press the JOG button.

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**.

SAMSUNG MAGIC Bright

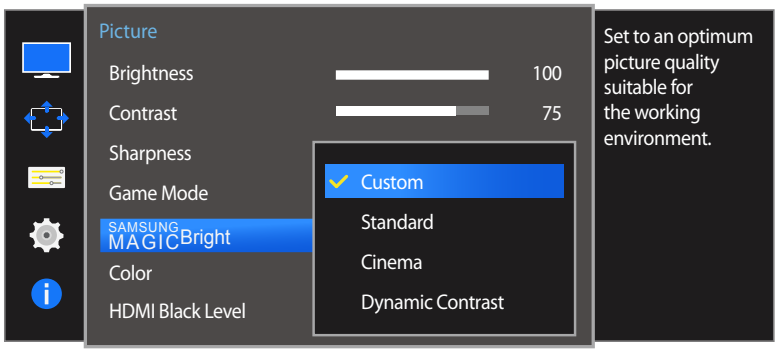
This menu provides an optimum picture quality suitable for the environment where the product will be used.

— This menu is not available when **Eco Saving** is enabled.

— This menu is not available when **Game Mode** is enabled.

— Not available when **PIP/PBP Mode** is set to **On**.

You can customize the brightness to suit your preferences.



– The displayed image may differ depending on the model.

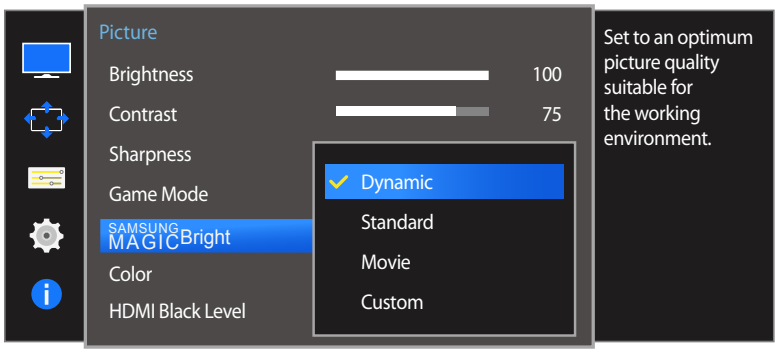
Configuring SAMSUNG MAGIC Bright

1 When the Function Key Guide appears, select ▥ by moving the JOG button UP. Next, press the JOG button.

2 Move to **Picture** controlling the JOG button UP/DOWN and press the JOG button.

3 Move to **SAMSUNG MAGIC Bright** controlling the JOG button UP/DOWN and press the JOG button.

- **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.



– The displayed image may differ depending on the model.

When the external input is connected through HDMI/DP and **PC/AV Mode** is set to **AV**, **SAMSUNG MAGICBright** 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 Move to the desired option controlling the JOG button UP/DOWN and press the JOG button.

5 The selected option will be applied.

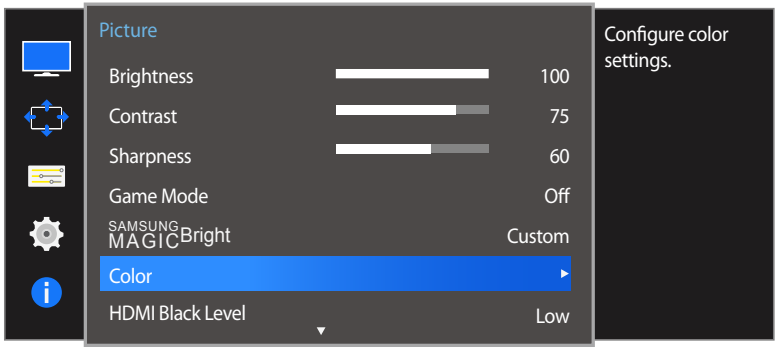
Color

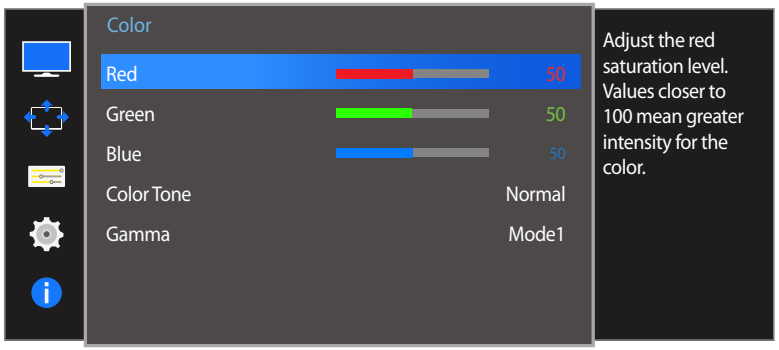
A detailed description of each function is provided. Refer to your product for details.

— Adjust the tint of the screen. This menu is not available when SAMSUNG MAGIC**Bright** is set to **Cinema** or **Dynamic Contrast** mode.

— This menu is not available when **Game Mode** is enabled.

— Not available when **PIP/PBP Mode** is set to **On**.





– The displayed image may differ depending on the model.

Configuring Color

1 When the Function Key Guide appears, select ▥ by moving the JOG button UP. Next, press the JOG button.

2 Move to **Picture** controlling the JOG button UP/DOWN and press the JOG button.

3 Move to **Color** controlling the JOG button UP/DOWN and press the JOG button.

- **Red**: Adjust the red saturation level. Values closer to 100 mean greater intensity for the colour.
- **Green**: Adjust the green saturation level. Values closer to 100 mean greater intensity for the colour.
- **Blue**: Adjust the blue saturation level. Values closer to 100 mean greater intensity for the colour.
- **Color Tone**: Select a colour tone that best suits your viewing needs.
  - **Cool 2**: Set the colour temperature to be cooler than **Cool 1**.
  - **Cool 1**: Set the colour temperature to be cooler than **Normal** mode.
  - **Normal**: Display the standard colour tone.
  - **Warm 1**: Set the colour temperature to be warmer than **Normal** mode.
  - **Warm 2**: Set the colour temperature to be warmer than **Warm 1**.
  - **Custom**: Customize the colour tone.

  — When the external input is connected through HDMI/DP and **PC/AV Mode** is set to **AV**, **Color Tone** has four colour temperature settings (**Cool**, **Normal**, **Warm** and **Custom**).
- **Gamma**: Adjust the middle level of luminance.
  - **Mode1** / **Mode2** / **Mode3**

4 Move to the desired option by controlling the JOG button and then press the JOG button.

5 The selected option will be applied.

HDMI Black Level

If a DVD player or set-top box is connected to the product via HDMI, image quality degradation (contrast/colour 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 1** or **HDMI 2** mode.

— Not available when **PIP/PBP Mode** is set to **On**.



– The displayed image may differ depending on the model.

Configuring the HDMI Black Level Settings

1 When the Function Key Guide appears, select ▥ by moving the JOG button UP. Next, press the JOG button.

2 Move to **Picture** controlling the JOG button UP/DOWN and press the JOG button.

3 Move to **HDMI Black Level** controlling the JOG button UP/DOWN and press the JOG button.

- **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 Move to the desired option controlling the JOG button UP/DOWN and press the JOG button.

5 The selected option will be applied.

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

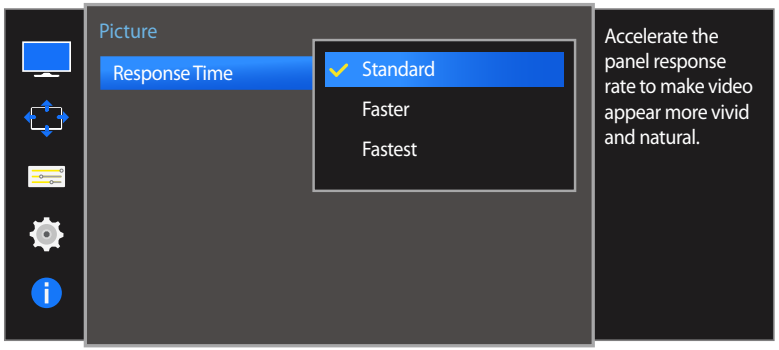
— The **HDMI Black Level** feature is only activated at a certain **AV** resolution, such as 720P and 1080P.

Response Time

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.

— This menu is not available when **PIP/PBP Mode** is set to **On** and the **Size** is set to / / (PIP Mode).



– The displayed image may differ depending on the model.

Configuring the Response Time

1 When the Function Key Guide appears, select by moving the JOG button UP. Next, press the JOG button.

2 Move to **Picture** controlling the JOG button UP/DOWN and press the JOG button.

3 Move to **Response Time** controlling the JOG button UP/DOWN and press the JOG button.

- **Standard** / **Faster** / **Fastest**

4 Move to the desired option controlling the JOG button UP/DOWN and press the JOG button.

5 The selected option will be applied.

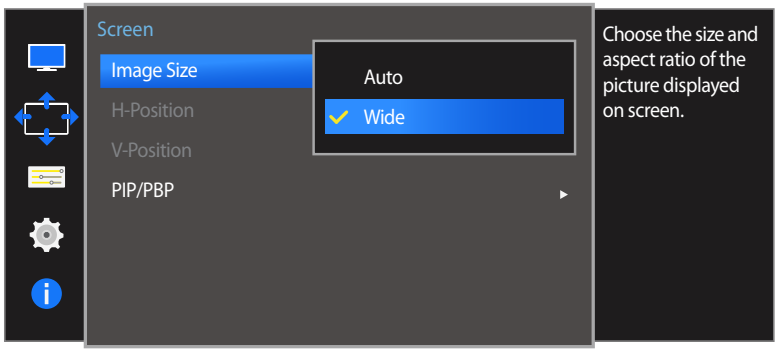
Chapter 05
Screen Adjustment

Image Size

Change the picture size.

— This menu is not available when **PIP/PBP Mode** is set to **On** and the **Size** is set to (PBP Mode).

In PC mode



– The displayed image may differ depending on the model.

Changing the Image Size

1 When the Function Key Guide appears, select by moving the JOG button UP. Next, press the JOG button.

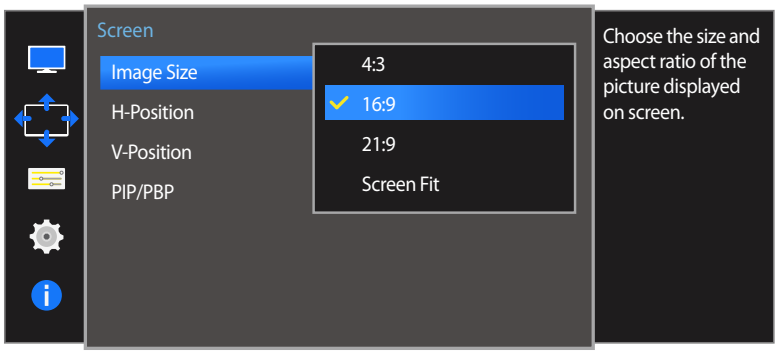
2 Move to **Screen** controlling the JOG button UP/DOWN and press the JOG button.

3 Move to **Image Size** controlling the JOG button UP/DOWN and press the JOG button.

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



– The displayed image may differ depending on the model.

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.
- **21:9**: Display the picture with an aspect ratio of 21:9.
- **Screen Fit**: Display the picture with the original aspect ratio without cutting off.

— The function may not be supported depending on the ports provided with the product.

— Changing the screen size is available when the following conditions are satisfied.

  — A digital output device is connected using the HDMI/DP 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/DP and **PC/AV Mode** is set to **AV**.

4 Move to the desired option controlling the JOG button UP/DOWN and press the JOG button.

5 The selected option will be applied.

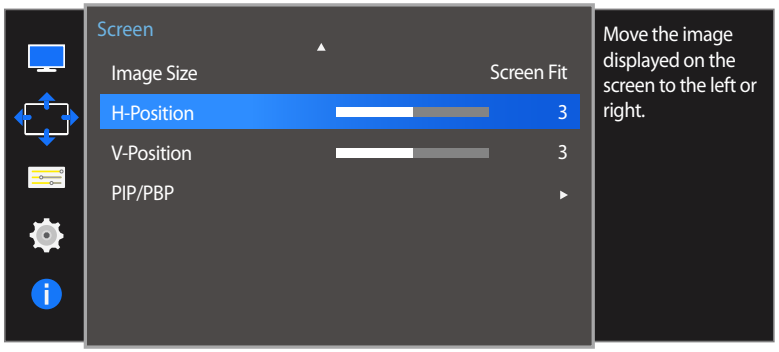
H-Position & V-Position

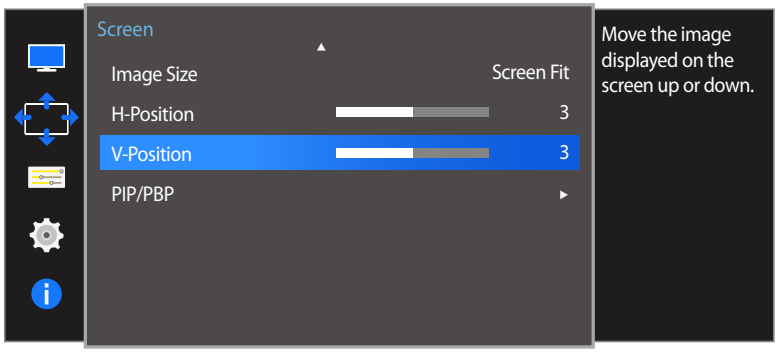
H-Position: Move the screen to the left or right.

V-Position: Move the screen up or down.

— This menu is 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.

— Not available when **PIP/PBP Mode** is set to **On**.





– The displayed image may differ depending on the model.

Configuring H-Position & V-Position

1 When the Function Key Guide appears, select by moving the JOG button UP. Next, press the JOG button.

2 Move to **Screen** controlling the JOG button UP/DOWN and press the JOG button.

3 Move to the **H-Position** or **V-Position** controlling the JOG button UP/DOWN and press the JOG button.

4 Adjust the **H-Position** or **V-Position** controlling the JOG button LEFT/RIGHT and press the JOG button.

5 The selected option will be applied.

PIP/PBP

The PIP (Picture in Picture) function separates the screen into two parts. One source device is displayed on the main screen at the same time the another source device is displayed in inset windows.

The PBP (Picture by Picture) function separates the screen in half displaying output from two different source devices simultaneously on the left and right sides of the screen.

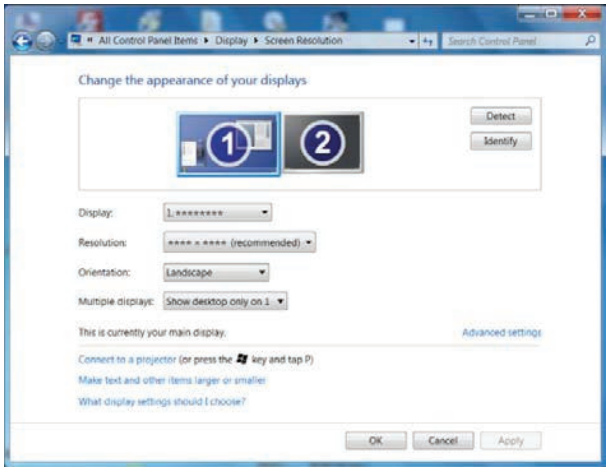
— Compatible with Windows7 and Windows8.

— The **PIP/PBP** function may not be available depending on the specifications of the graphics card used. If the screen is blank in **PIP/PBP** mode when the optimum resolution is selected, go to **Control Panel** ⟶ **Display** ⟶ **Screen Resolution** and click **Detect** on the PC. (Instructions are based on Windows 7.) If the screen is blank when the resolution is set to the optimum resolution, change the resolution to 1280 x 1024.

— The screen may flicker briefly or appear after a delay when you enable or disable the **PIP/PBP** function or when you change the screen size with the **PIP/PBP** function activated.

This can typically arise when a PC and a monitor are connected to two or more input sources. It has nothing to do with the performance of a monitor.

The issue is mainly caused when the video signals are delayed in transmission to the monitor depending on the graphics card performance.

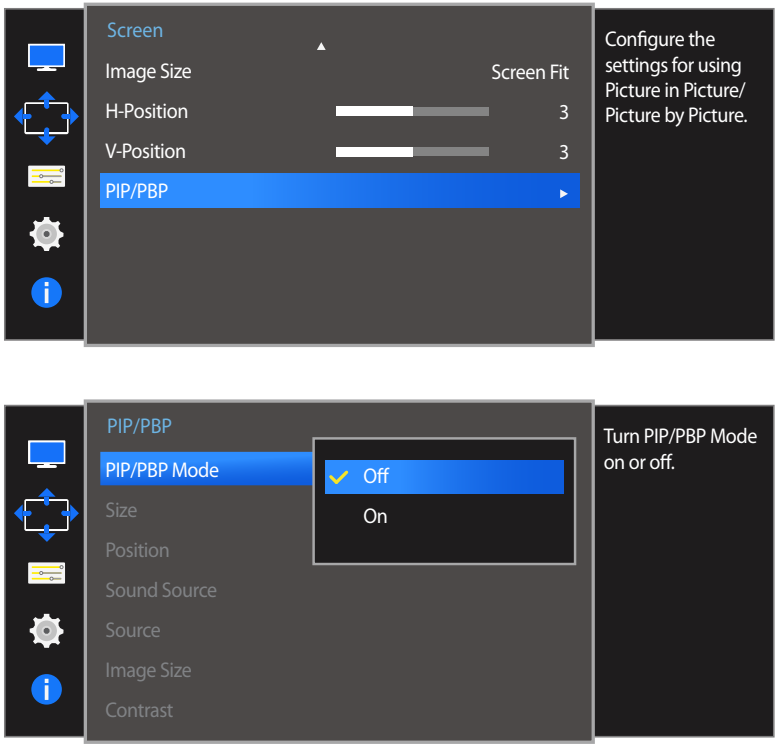


— To maximize the picture quality, it is recommended to use a graphics card that supports WQHD+ (3440 x 1440) resolution.

— When the **PIP/PBP** function is enabled, the resolution will not be able to automatically switch to the optimum resolution due to a compatibility issue between the graphics card and the Windows system.

Set **PIP/PBP Mode** to **Off** or manually change the resolution to the optimum resolution using the Windows interface.

Configuring PIP/PBP Mode



– The displayed image may differ depending on the model.

Enable or disable the **PIP/PBP Mode** function.

1 When the Function Key Guide appears, select ▥ by moving the JOG button UP. Next, press the JOG button.

2 Move to **Screen** controlling the JOG button UP/DOWN and press the JOG button.

3 Move to the **PIP/PBP** controlling the JOG button UP/DOWN and press the JOG button.

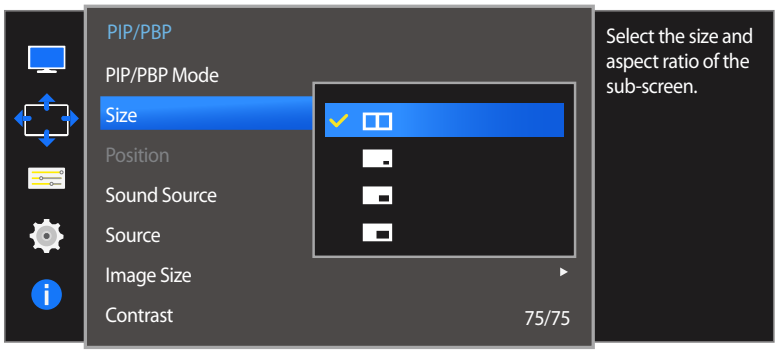
4 Move to the **PIP/PBP Mode** controlling the JOG button UP/DOWN and press the JOG button.

- **Off** / **On**

5 Move to the desired option controlling the JOG button UP/DOWN and press the JOG button.

6 The selected option will be applied.

Configuring Size



– The displayed image may differ depending on the model.

Select the size and aspect ratio of the sub-screen.

1 When the Function Key Guide appears, select by moving the JOG button UP. Next, press the JOG button.

2 Move to **Screen** controlling the JOG button UP/DOWN and press the JOG button.

3 Move to the **PIP/PBP** controlling the JOG button UP/DOWN and press the JOG button.

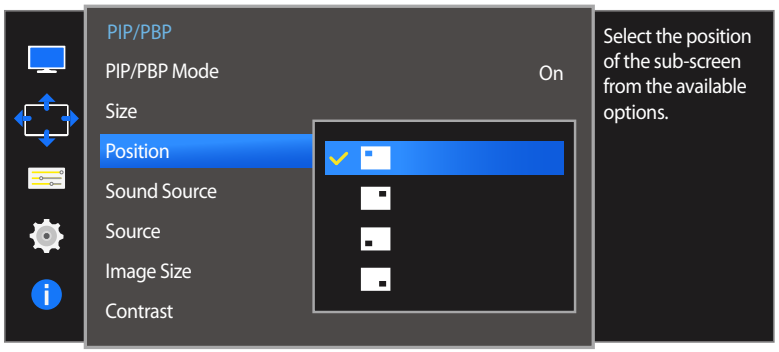
4 Move to the **Size** controlling the JOG button UP/DOWN and press the JOG button.

- : Select the icon image if you want to use PBP mode where the optimum resolution for the left and right sides of the screen is 1720 x 1440 (width x height).
- : Select the icon image if you want to use PIP mode where the optimum resolution for the sub-screen is 720 x 480 (width x height).
- : Select the icon image if you want to use PIP mode where the optimum resolution of the sub-screen is 1280 x 720 (width x height).
- : Select the icon image if you want to use PIP mode where the optimum resolution of the sub-screen is 1720 x 720 (width x height).

5 Move to the desired option controlling the JOG button UP/DOWN and press the JOG button.

6 The selected option will be applied.

Configuring Position



– The displayed image may differ depending on the model.

Select the position of the sub-screen from the available options.

1 When the Function Key Guide appears, select ▯▯▯ by moving the JOG button UP. Next, press the JOG button.

2 Move to **Screen** controlling the JOG button UP/DOWN and press the JOG button.

3 Move to the **PIP/PBP** controlling the JOG button UP/DOWN and press the JOG button.

4 Move to the **Position** controlling the JOG button UP/DOWN and press the JOG button.

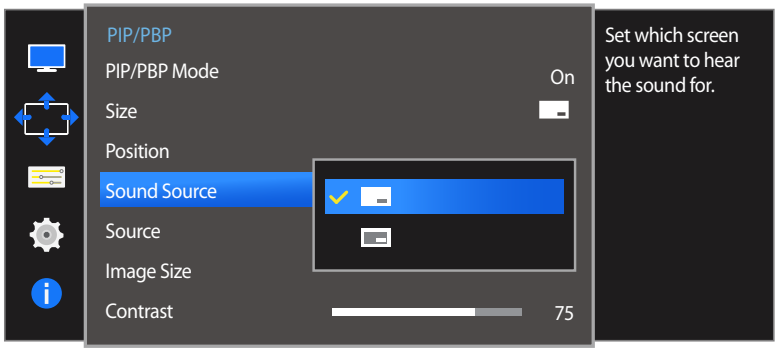
- ▭ / ▭ / ▭ / ▭
  - Not available when PBP is selected.
  - The screen may flicker if the input signal is unstable.

5 Move to the desired option controlling the JOG button UP/DOWN and press the JOG button.

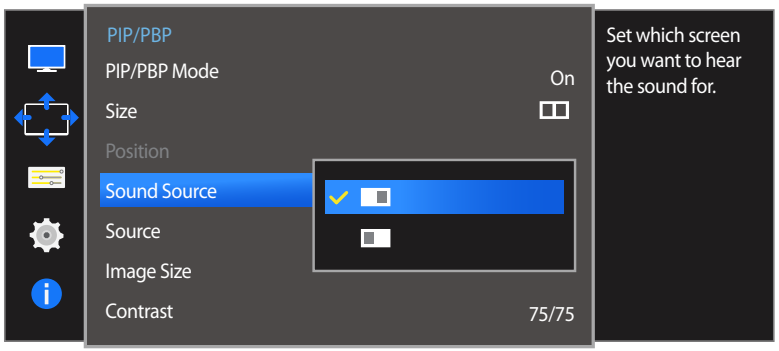
6 The selected option will be applied.

Configuring Sound Source

PIP mode



PBP mode



– The displayed image may differ depending on the model.

Set which screen you want to hear the sound for.

1 When the Function Key Guide appears, select ▯▯▯ by moving the JOG button UP. Next, press the JOG button.

2 Move to **Screen** controlling the JOG button UP/DOWN and press the JOG button.

3 Move to the **PIP/PBP** controlling the JOG button UP/DOWN and press the JOG button.

4 Move to the **Sound Source** controlling the JOG button UP/DOWN and press the JOG button.

- PIP mode: ▭ / ▭
- PBP mode: ▯ / ▯

— The white area of the icon means that the **Sound Source** comes from the main screen/sub-screen or the left/right screen.

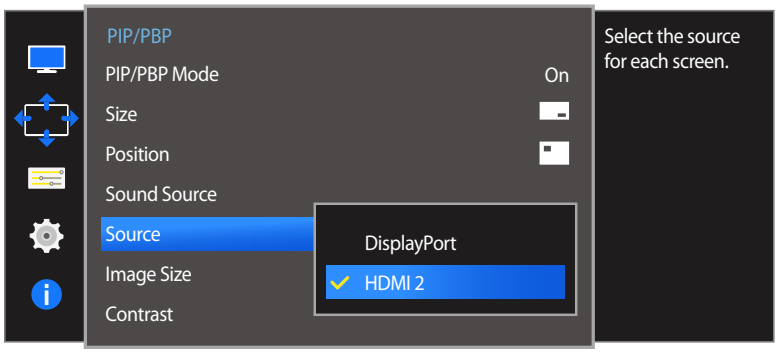
5 Move to the desired option controlling the JOG button UP/DOWN and press the JOG button.

6 The selected option will be applied.

Configuring Source

PIP Mode

(available in PIP mode(Size / /))



– The displayed image may differ depending on the model.

Select the source for each screen.

1 When the Function Key Guide appears, select by moving the JOG button UP. Next, press the JOG button.

2 Move to **Screen** controlling the JOG button UP/DOWN and press the JOG button.

3 Move to the **PIP/PBP** controlling the JOG button UP/DOWN and press the JOG button.

4 Move the JOG button UP/DOWN to select **Source** and then press the JOG button.

- **DisplayPort** / **HDMI 1** / **HDMI 2**

5 Move to the desired option controlling the JOG button UP/DOWN and press the JOG button.

6 The selected option will be applied.

— The input source for the main screen changes.

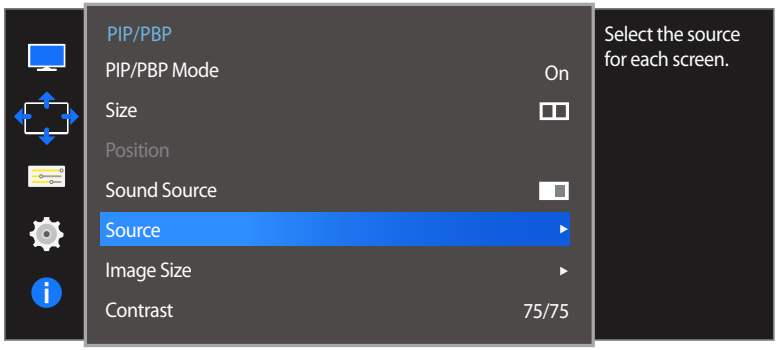
— With the exception of the current input source, the other two input sources can be selected.

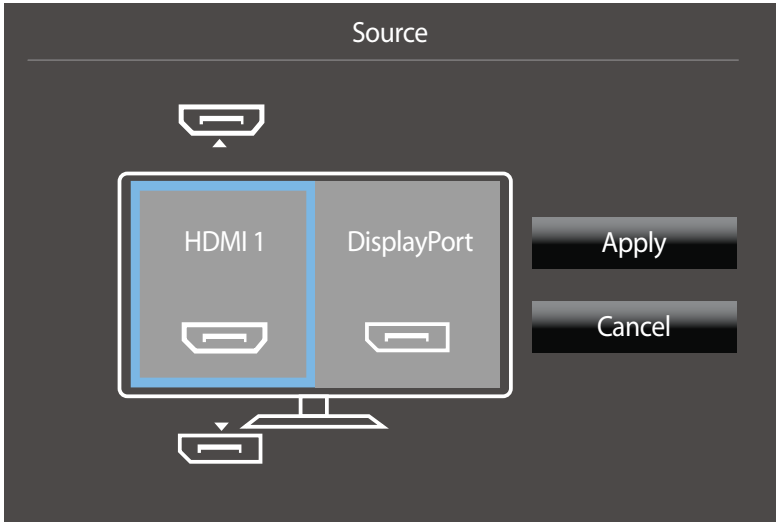
— The screen may flicker if the input signal is unstable.

— When the Function Key Guide appears, move the JOG button LEFT to select the icon and then press the JOG button. The main screen will switch in the order **DisplayPort** → **HDMI 1** → **HDMI 2**.

PBP Mode

(available in PBP mode(Size))





– The displayed image may differ depending on the model.

Select input sources for the devices displayed on the main and sub screens.

1 When the Function Key Guide appears, select by moving the JOG button UP. Next, press the JOG button.

2 Move to **Screen** controlling the JOG button UP/DOWN and press the JOG button.

3 Move to the **PIP/PBP** controlling the JOG button UP/DOWN and press the JOG button.

4 Move the JOG button UP/DOWN to select **Source** and then press the JOG button.

- **DisplayPort** / **HDMI 1** / **HDMI 2**

5 Control the JOG button UP/DOWN and choose the left/right external input source.

6 Move the JOG button LEFT/RIGHT to select **Apply** and then press the JOG button. Pressing the JOG button after selecting **Cancel** will cancel **Source** configuration and revert back to the **PIP/PBP** control menu.

— The input source for the main screen changes.

— The screen may flicker if the input signal is unstable.

— When the input signal of the left and right screens are the same, the operation cannot be performed.

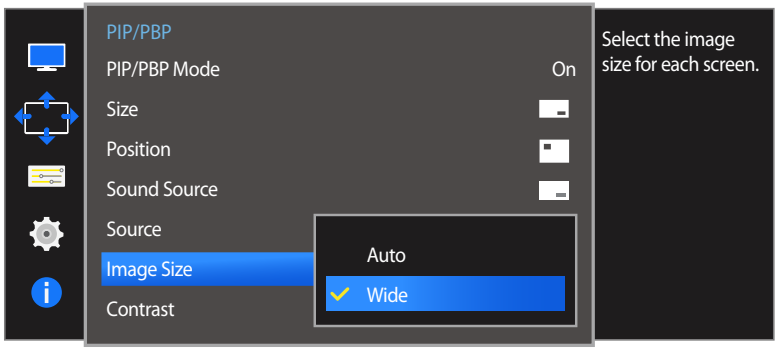
— When the Function Key Guide appears, move the JOG button LEFT to select the icon and then press the JOG button. The same PBP source setting menu appears.

Configuring Image Size

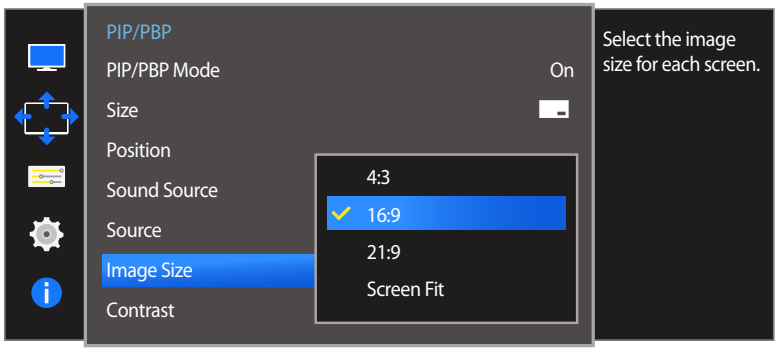
PIP Mode

(available in PIP mode(Size / /))

In PC mode



In AV mode



– The displayed image may differ depending on the model.

Select the image size for sub-screen.

1 When the Function Key Guide appears, select by moving the JOG button UP. Next, press the JOG button.

2 Move to **Screen** controlling the JOG button UP/DOWN and press the JOG button.

3 Move to the **PIP/PBP** controlling the JOG button UP/DOWN and press the JOG button.

4 Move the JOG button UP/DOWN to select **Image Size** and then press the JOG button.

(available in PIP mode(Size / /))

In PC mode

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

In AV mode

- **4:3**: Display the picture of the sub-screen with an aspect ratio of 4:3. Suitable for videos and standard broadcasts.
- **16:9**: Display the picture of the sub-screen with an aspect ratio of 16:9.
- **21:9**: Display the picture of the sub-screen with an aspect ratio of 21:9.
- **Screen Fit**: Display the picture of the sub-screen with the original aspect ratio without cutting anything off.

— The function may not be supported depending on the ports provided with the product.

— Changing the screen size is available when the following conditions are satisfied.

- A digital output device is connected using the HDMI/DP 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/DP and **PC/AV Mode** is set to **AV**.

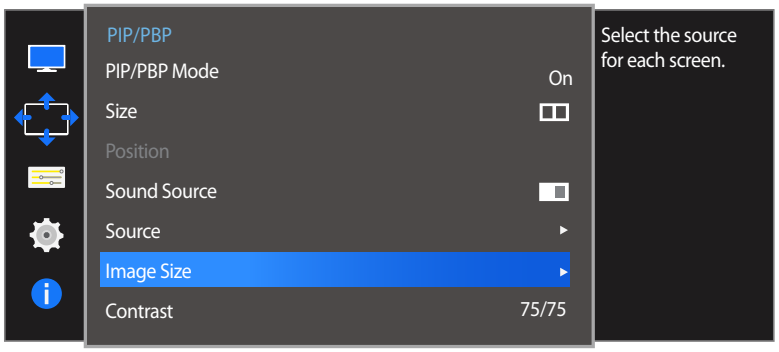
5 Move to the desired option controlling the JOG button UP/DOWN and press the JOG button.

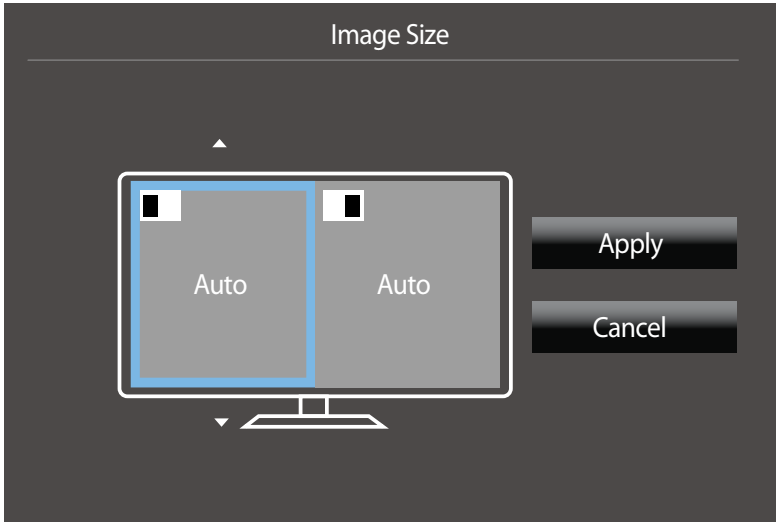
6 The selected option will be applied.

PBP Mode

(available in PBP mode(Size))

In PC mode





– The displayed image may differ depending on the model.

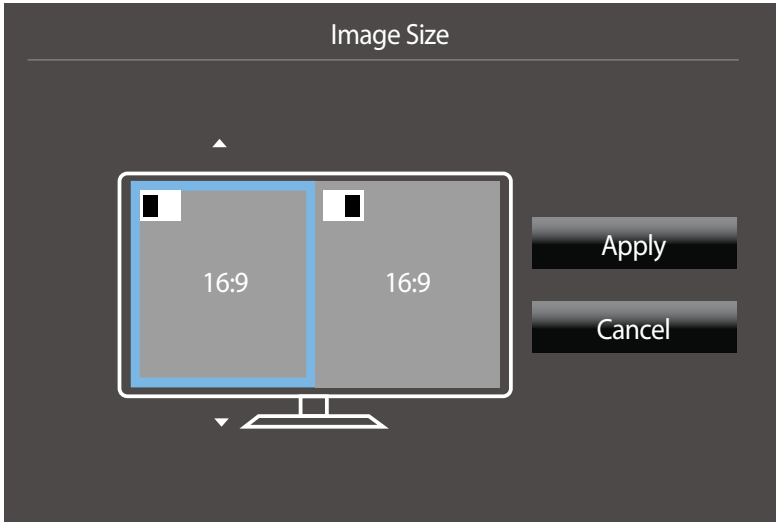
Set the **Image Size** for each of the divided screens.

1. When the Function Key Guide appears, select by moving the JOG button UP. Next, press the JOG button.
2. Move to **Screen** controlling the JOG button UP/DOWN and press the JOG button.
3. Move to the **PIP/PBP** controlling the JOG button UP/DOWN and press the JOG button.
4. Move the JOG button UP/DOWN to select **Image Size** and then press the JOG button.

In PC mode

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

In AV mode



– The displayed image may differ depending on the model.

In AV mode

- **4:3**: Display the picture of the sub-screen with an aspect ratio of 4:3. Suitable for videos and standard broadcasts.
- **16:9**: Display the picture of the sub-screen with an aspect ratio of 16:9.
- **21:9**: Display the picture of the sub-screen with an aspect ratio of 21:9.
- **Screen Fit**: Display the picture of the sub-screen with the original aspect ratio without cutting anything off.

— The function may not be supported depending on the ports provided with the product.

— Changing the screen size is available when the following conditions are satisfied.

  – A digital output device is connected using the HDMI/DP 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/DP and **PC/AV Mode** is set to **AV**.

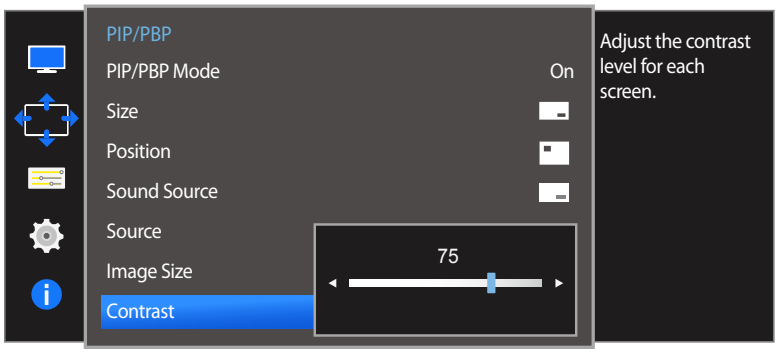
5 Move to the desired option controlling the JOG button and press the JOG button.

6 The selected option will be applied.

Configuring Contrast

PIP Mode

(available in PIP mode(Size / /))



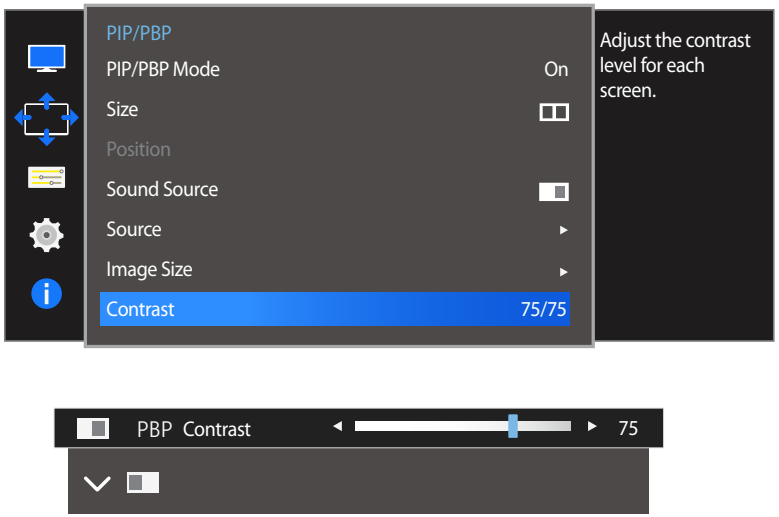
– The displayed image may differ depending on the model.

Adjust the contrast level for sub-screen.

1. When the Function Key Guide appears, select by moving the JOG button UP. Next, press the JOG button.
2. Move to **Screen** controlling the JOG button UP/DOWN and press the JOG button.
3. Move to the **PIP/PBP** controlling the JOG button UP/DOWN and press the JOG button.
4. Move the JOG button UP/DOWN to select **Contrast** and then press the JOG button.
5. Adjust the **Contrast** controlling the JOG button LEFT/RIGHT.
6. The selected option will be applied.

PBP Mode

(available in PBP mode(Size))



– The displayed image may differ depending on the model.

Adjust the contrast level for each screen.

1. When the Function Key Guide appears, select by moving the JOG button UP. Next, press the JOG button.
2. Move to **Screen** controlling the JOG button UP/DOWN and press the JOG button.
3. Move to the **PIP/PBP** controlling the JOG button UP/DOWN and press the JOG button.
4. Move the JOG button UP/DOWN to select **Contrast** and then press the JOG button.
5. Adjust the **Contrast** controlling the JOG button LEFT/RIGHT.
6. The selected option will be applied.

Chapter 06
Coordinating OSD

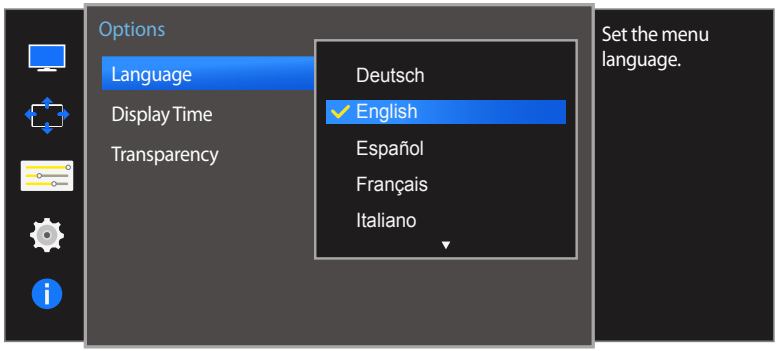
A detailed description of each function is provided. Refer to your product for details.

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.



– The displayed image may differ depending on the model.

Configuring Language

1 When the Function Key Guide appears, select by moving the JOG button UP. Next, press the JOG button.

2 Move to **Options** controlling the JOG button UP/DOWN and press the JOG button.

3 Move to **Language** controlling the JOG button UP/DOWN and press the JOG button.

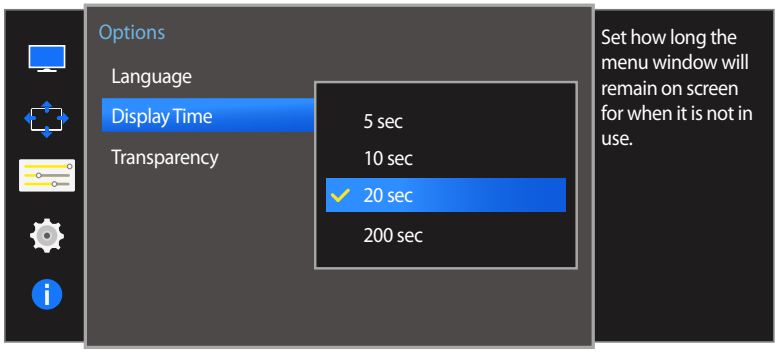
4 Move to the desired option controlling the JOG button UP/DOWN and press the JOG button.

5 The selected option will be applied.

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.



– The displayed image may differ depending on the model.

Configuring Display Time

1 When the Function Key Guide appears, select ▥ to display the corresponding menu screen.

2 Move to **Options** controlling the JOG button UP/DOWN and press the JOG button.

3 Move to **Display Time** controlling the JOG button UP/DOWN and press the JOG button.

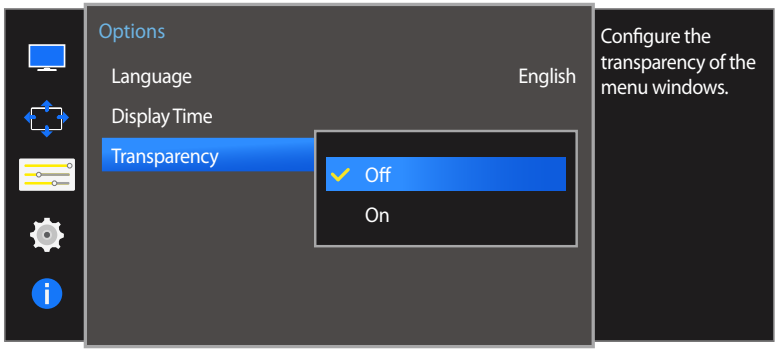
- **5 sec** / **10 sec** / **20 sec** / **200 sec**

4 Move to the desired option controlling the JOG button UP/DOWN and press the JOG button.

5 The selected option will be applied.

Transparency

Set the transparency for the menu windows.



– The displayed image may differ depending on the model.

Changing Transparency

1 When the Function Key Guide appears, select ▥ to display the corresponding menu screen.

2 Move to **Options** controlling the JOG button UP/DOWN and press the JOG button.

3 Move to **Transparency** controlling the JOG button UP/DOWN and press the JOG button.

- **Off** / **On**

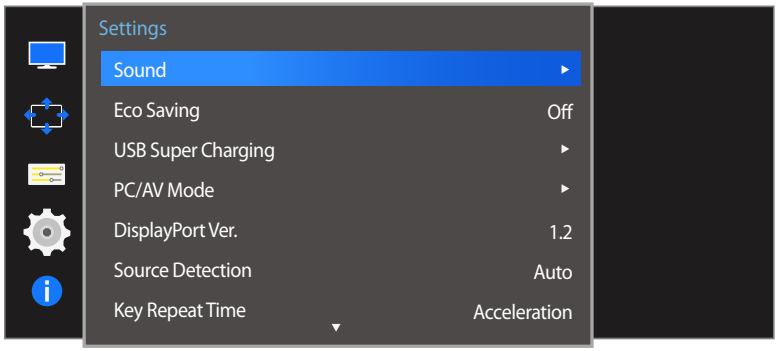
4 Move to the desired option controlling the JOG button UP/DOWN and press the JOG button.

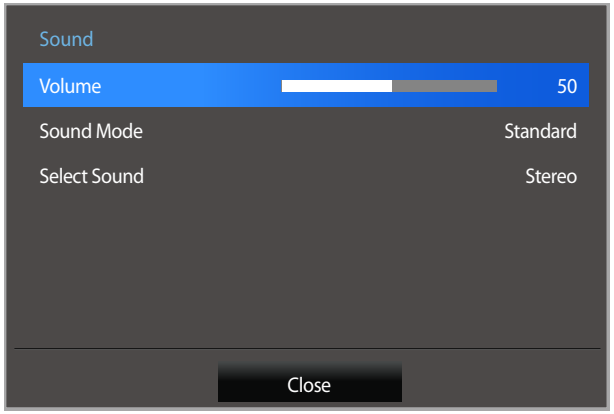
5 The selected option will be applied.

Chapter 07
Setup and Reset

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

Sound





– The displayed image may differ depending on the model.

Configuring Volume

1 When the Function Key Guide appears, select ▥ by moving the JOG button UP. Next, press the JOG button.

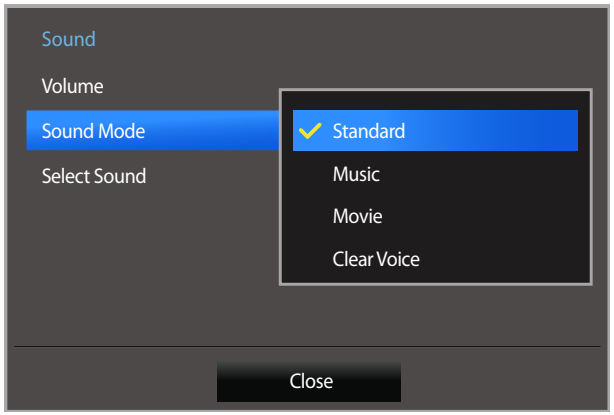
2 Move to **Settings** controlling the JOG button UP/DOWN and press the JOG button.

3 Move to **Sound** controlling the JOG button UP/DOWN and press the JOG button.

4 Adjust the **Volume** controlling the JOG button LEFT/RIGHT.

5 The selected option will be applied.

Configuring Sound Mode



– The displayed image may differ depending on the model.

1 When the Function Key Guide appears, select ▥ by moving the JOG button UP. Next, press the JOG button.

2 Move to **Settings** controlling the JOG button UP/DOWN and press the JOG button.

3 Move to **Sound** controlling the JOG button UP/DOWN and press the JOG button.

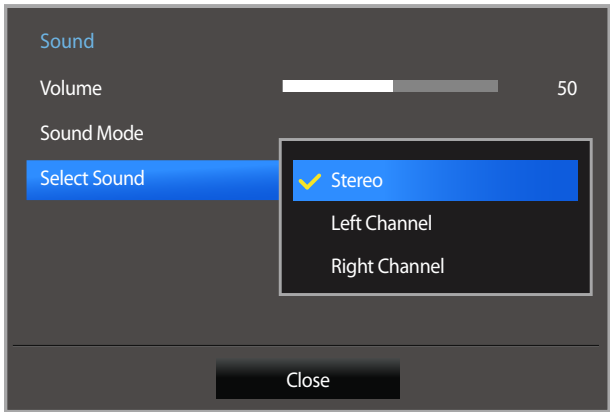
4 Move to **Sound Mode** controlling the JOG button UP/DOWN and press the JOG button.

- **Standard**: Selects the normal sound mode.
- **Music**: Emphasizes music over voices.
- **Movie**: Provides the best sound for movies.
- **Clear Voice**: Emphasizes voices over other sounds.

5 Move to the desired option controlling the JOG button UP/DOWN and press the JOG button.

6 The selected option will be applied.

Configuring Select Sound



– The displayed image may differ depending on the model.

1 When the Function Key Guide appears, select ▥ by moving the JOG button UP. Next, press the JOG button.

2 Move to **Settings** controlling the JOG button UP/DOWN and press the JOG button.

3 Move to **Sound** controlling the JOG button UP/DOWN and press the JOG button.

4 Move to **Select Sound** controlling the JOG button UP/DOWN and press the JOG button.

- **Stereo**: Enable the sound both from the left and right speakers.
- **Left Channel**: Set the left and right speakers to play only the left channel of the sound source.
- **Right Channel**: Set the left and right speakers to play only the right channel of the sound source.

5 Move to the desired option controlling the JOG button UP/DOWN and press the JOG button.

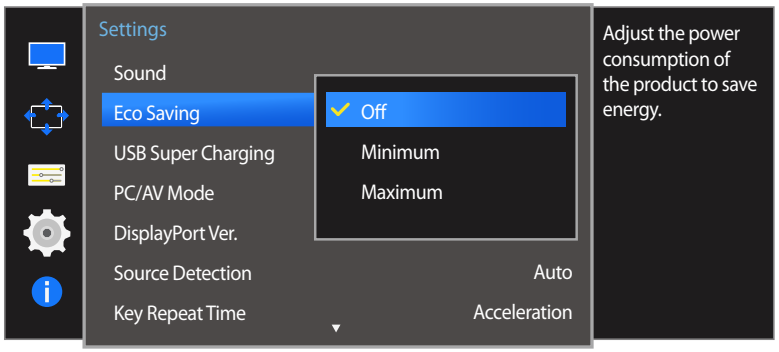
6 The selected option will be applied.

Eco Saving

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

— This option is not available when SAMSUNG MAGIC**Bright** is in **Dynamic Contrast** mode.

— This menu is not available when **Game Mode** is enabled.



– The displayed image may differ depending on the model.

Configuring Eco Saving

1 When the Function Key Guide appears, select ▥ by moving the JOG button UP. Next, press the JOG button.

2 Move to **Settings** controlling the JOG button UP/DOWN and press the JOG button.

3 Move to **Eco Saving** controlling the JOG button UP/DOWN and press the JOG button.

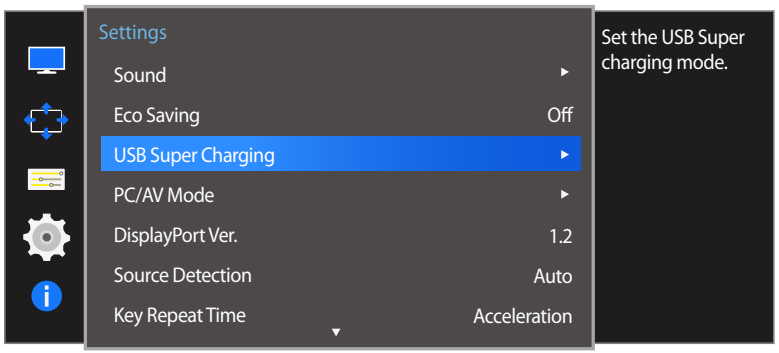
- **Off**: Deactivate the **Eco Saving** function.
- **Minimum**: Change the monitor power consumption to 50% of the default level.
- **Maximum**: Change the monitor power consumption to 75% of the default level.

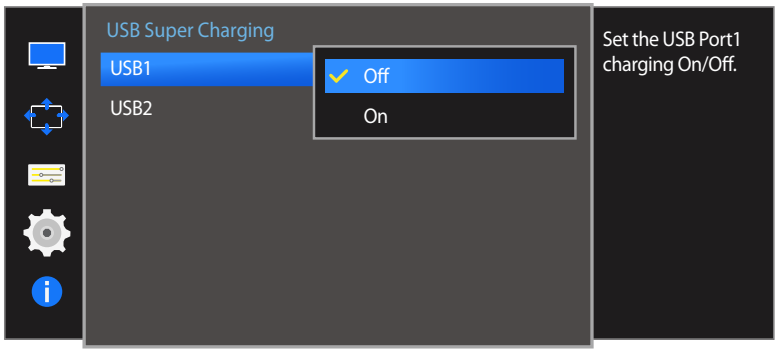
4 Move to the desired option controlling the JOG button UP/DOWN and press the JOG button.

5 The selected option will be applied.

USB Super Charging

Charge the battery of a connected source device quickly using the USB 3.0 port on the product.





– The displayed image may differ depending on the model.

— Setting **USB Super Charging** to **On** during a data transfer will stop the data transfer. If you set **USB Super Charging** to **Off**, the standard charging and data transfer feature will be available.

— High-speed charging is possible using the SS 1 and SS 2 ports only. These ports charge devices faster than typical USB ports. The speed depends on the connected devices.

Configuring USB Super Charging

1 When the Function Key Guide appears, select ⊞ by moving the JOG button UP. Next, press the JOG button.

2 Move to **Settings** controlling the JOG button UP/DOWN and press the JOG button.

3 Move to **USB Super Charging** controlling the JOG button UP/DOWN and press the JOG button.

- **Off**: Disable **USB Super Charging**.
- **On**: Enable the function to quickly charge a source device connected to the USB 3.0 port.

4 Move to the desired option controlling the JOG button UP/DOWN and press the JOG button.

5 The selected option will be applied.

— Supported output by USB charging mode

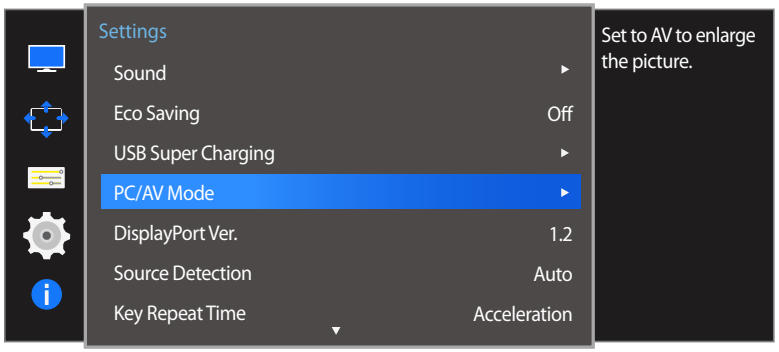
— Standard USB charging: 5 V, up to 900 mA (including USB 3.0)

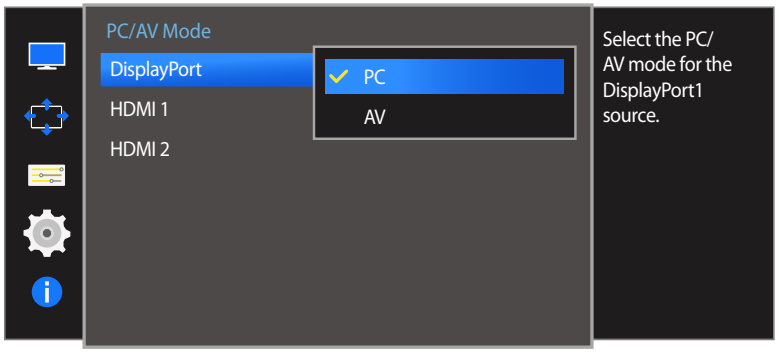
— Fast USB charging: 5 V, up to 1.5 A
(Outputs may differ depending on the device specifications.)

PC/AV Mode

Set **PC/AV Mode** to **AV**. The picture size will be enlarged.

This option is useful when you view a movie.





– The displayed image may differ depending on the model.

— Supplied for the wide models only such as 16:9 or 16:10.

— If the monitor is in **HDMI 1**, **HDMI 2** or **DisplayPort** mode and the screen says **Check Signal Cable** or power saving mode activates, press the JOG button to display the function-button screen and then select the icon. You can select **PC** or **AV**.

Configuring PC/AV Mode

1 When the Function Key Guide appears, select by moving the JOG button UP. Next, press the JOG button.

2 Move to **Settings** controlling the JOG button UP/DOWN and press the JOG button.

3 Move to **PC/AV Mode** controlling the JOG button UP/DOWN and press the JOG button.

4 Move to the **HDMI 1**, **HDMI 2**, **DisplayPort** controlling the JOG button UP/DOWN and press the JOG button.

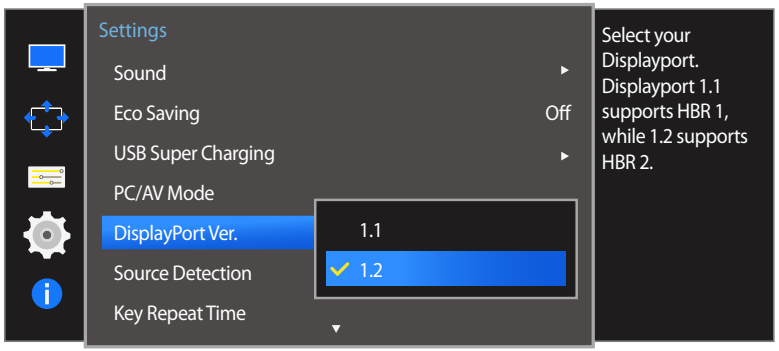
- Set to PC when connected to a PC.
- Set to AV when connected to an AV device.

5 Move to the desired option controlling the JOG button UP/DOWN and press the JOG button.

6 The selected option will be applied.

DisplayPort Ver.

Select your Displayport. Displayport 1.1 supports High Bit Rate 1, while 1.2 supports High Bit Rate 2.



– The displayed image may differ depending on the model.

— Incorrect settings may cause the screen to go blank. If this occurs, check the device specifications.

— If the monitor is in **HDMI 1**, **HDMI 2** or **DisplayPort** mode and the screen says **Check Signal Cable** or power saving mode activates, press the JOG button to display the function-button screen and then select the icon. You can select **1.1** or **1.2**.

Configuring DisplayPort Ver.

1 When the Function Key Guide appears, select by moving the JOG button UP. Next, press the JOG button.

2 Move to **Settings** controlling the JOG button UP/DOWN and press the JOG button.

3 Move to **DisplayPort Ver.** controlling the JOG button UP/DOWN and press the JOG button.

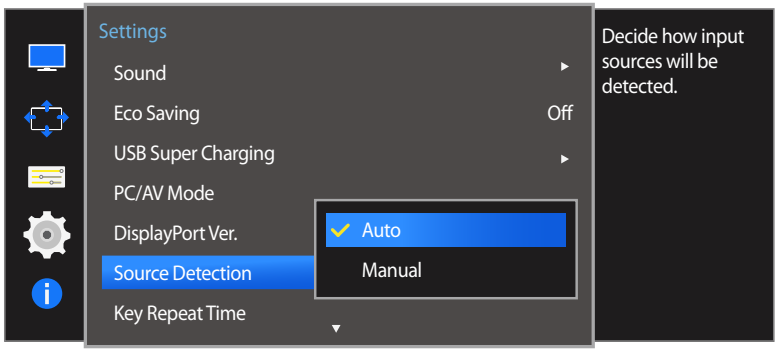
- **1.1** / **1.2**

4 Move to the desired option controlling the JOG button UP/DOWN and press the JOG button.

5 The selected option will be applied.

Source Detection

You can activate **Source Detection**.



– The displayed image may differ depending on the model.

Configuring Source Detection

1 When the Function Key Guide appears, select ▥ by moving the JOG button UP. Next, press the JOG button.

2 Move to **Settings** controlling the JOG button UP/DOWN and press the JOG button.

3 Move to **Source Detection** controlling the JOG button UP/DOWN and press the JOG button.

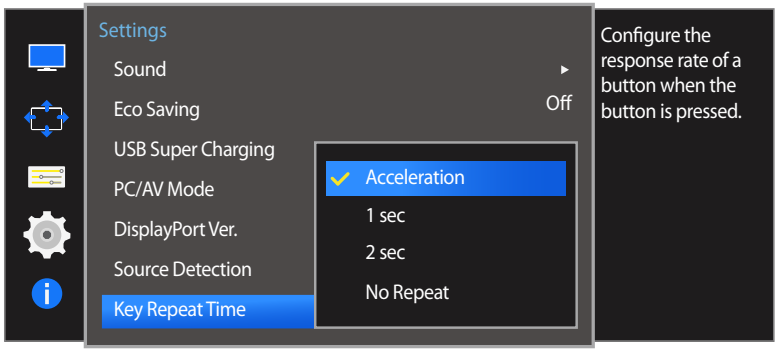
- **Auto**: The input source is automatically recognized.
- **Manual**: Manually select an input source.

4 Move to the desired option controlling the JOG button UP/DOWN and press the JOG button.

5 The selected option will be applied.

Key Repeat Time

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



– The displayed image may differ depending on the model.

Configuring Key Repeat Time

1 When the Function Key Guide appears, select ▥ by moving the JOG button UP. Next, press the JOG button.

2 Move to **Settings** controlling the JOG button UP/DOWN and press the JOG button.

3 Move to **Key Repeat Time** controlling the JOG button UP/DOWN and press the JOG button.

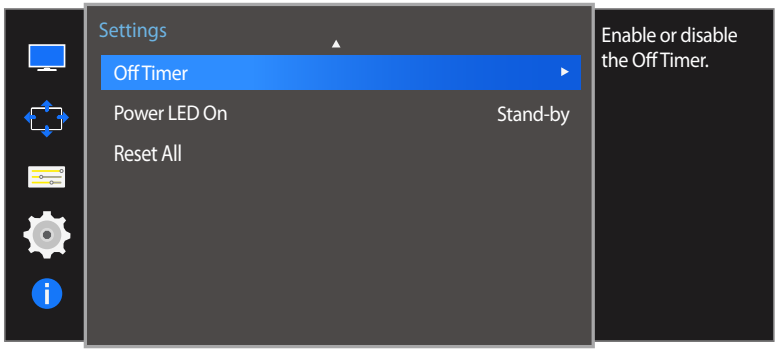
- **Acceleration**, **1 sec**, or **2 sec** can be selected. If **No Repeat** is selected, a command responds only once when a button is pressed.

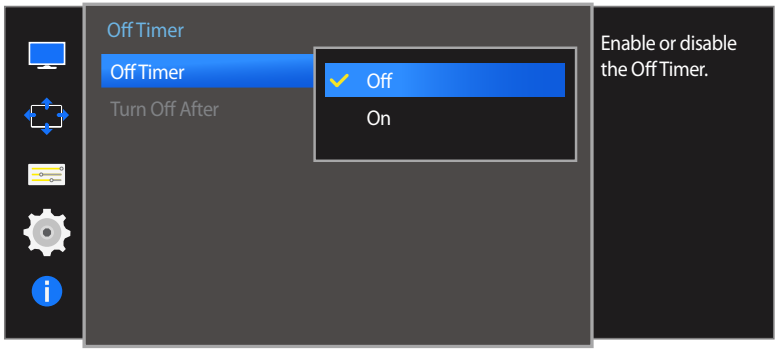
4 Move to the desired option controlling the JOG button UP/DOWN and press the JOG button.

5 The selected option will be applied.

Off Timer

You can set the product to automatically turn off.





– The displayed image may differ depending on the model.

Configuring Off Timer

1 When the Function Key Guide appears, select ▥ by moving the JOG button UP. Next, press the JOG button.

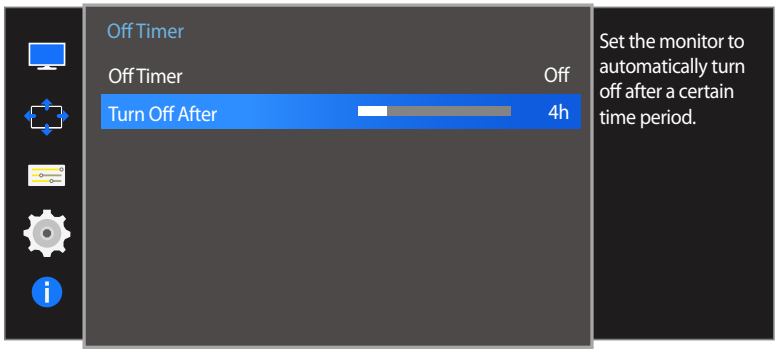
2 Move to **Settings** controlling the JOG button UP/DOWN and press the JOG button.

3 Move to **Off Timer** controlling the JOG button UP/DOWN and press the JOG button.

- **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.

4 Move to the desired option controlling the JOG button UP/DOWN and press the JOG button.

5 The selected option will be applied.



– The displayed image may differ depending on the model.

Configuring Turn Off After

— This option is only available when **Off Timer** is set to **On**.

1 When the Function Key Guide appears, select ▥ by moving the JOG button UP. Next, press the JOG button.

2 Move to **Settings** controlling the JOG button UP/DOWN and press the JOG button.

3 Move to **Off Timer** controlling the JOG button UP/DOWN and press the JOG button.

4 Move to **Turn Off After** controlling the JOG button UP/DOWN and press the JOG button.

5 Adjust the **Turn Off After** controlling the JOG button LEFT/RIGHT.

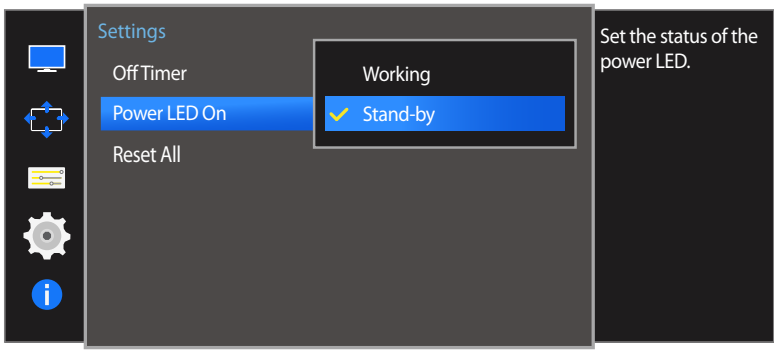
6 The selected option will be applied.

— 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.

— 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** → **Settings** and set **Off Timer** to **Off**.

Power LED On

Configure the settings to enable or disable the power LED located at the lower part of the product.



– The displayed image may differ depending on the model.

Configuring Power LED On

1 When the Function Key Guide appears, select ▥ by moving the JOG button UP. Next, press the JOG button.

2 Move to **Settings** controlling the JOG button UP/DOWN and press the JOG button.

3 Move to **Power LED On** controlling the JOG button UP/DOWN and press the JOG button.

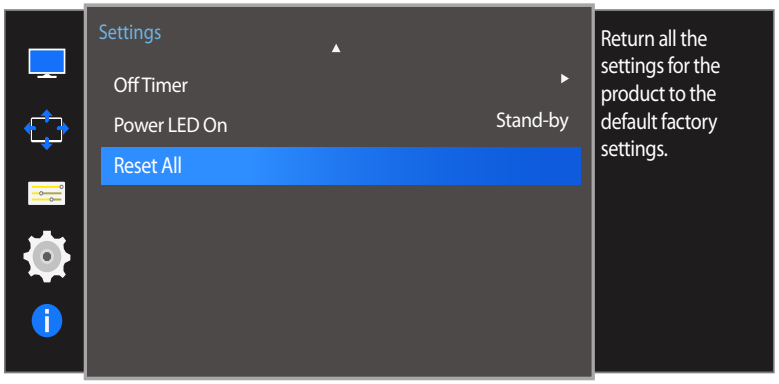
- **Working**: The power LED is on when the product is turned on.
- **Stand-by**: The power LED is on when the product is turned off.

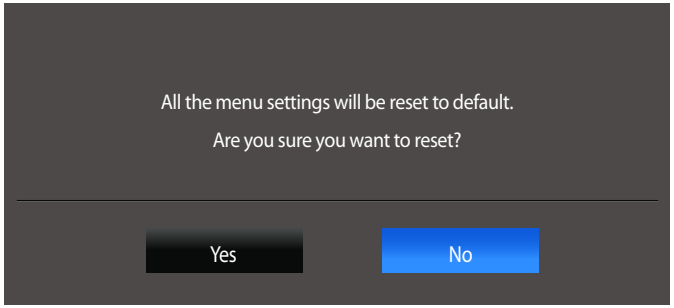
4 Move to the desired option controlling the JOG button UP/DOWN and press the JOG button.

5 The selected option will be applied.

Reset All

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





– The displayed image may differ depending on the model.

Initializing Settings (Reset All)

1 When the Function Key Guide appears, select ▥ by moving the JOG button UP. Next, press the JOG button.

2 Move to **Settings** controlling the JOG button UP/DOWN and press the JOG button.

3 Move to **Reset All** controlling the JOG button UP/DOWN and press the JOG button.

4 Move to the desired option controlling the JOG button LEFT/RIGHT and press the JOG button.

5 The selected option will be applied.

Chapter 08
Information Menu and Others

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

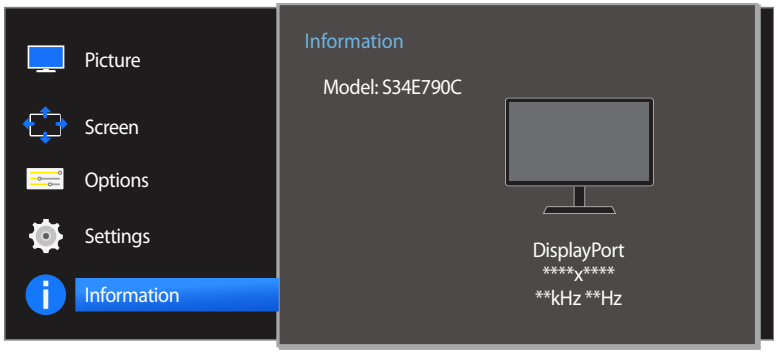
Information

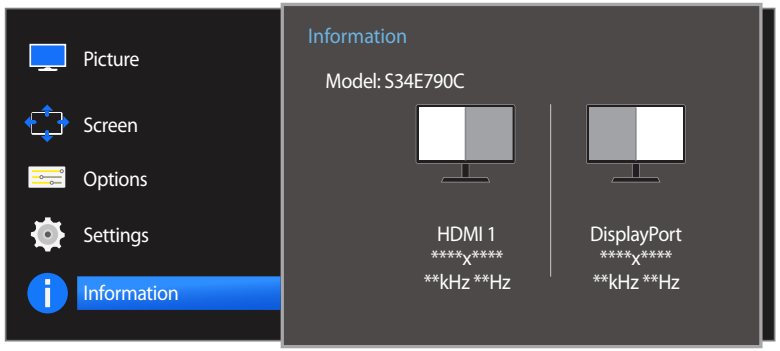
View the current input source, frequency and resolution.

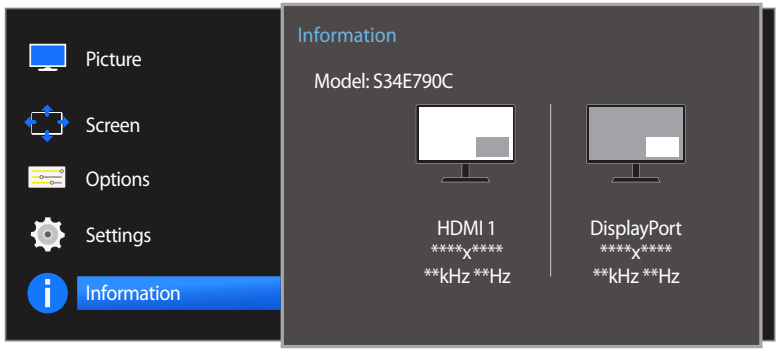
Displaying Information

1 When the Function Key Guide appears, select ▥ by moving the JOG button UP. Next, press the JOG button.

2 Move to **Information** controlling the JOG button UP/DOWN and press the JOG button. The current input source, frequency and resolution will appear.







– The displayed image may differ depending on the model.

Configuring Brightness, Contrast and Sharpness from the Initial Screen

You can adjust **Brightness**, **Contrast** or **Sharpness** by moving the JOG button up or down, if no OSD menu is displayed.



– The displayed image may differ depending on the model.

Brightness

— This menu is not available when SAMSUNG MAGIC**Bright** is set to **Dynamic Contrast** mode.

— This menu is not available when **Eco Saving** is enabled.

Contrast

— This menu is not available when SAMSUNG MAGIC**Bright** is in **Cinema** or **Dynamic Contrast** mode.

— This menu is not available when **Game Mode** is enabled.

— This menu is not available when **PIP/PBP Mode** is set to **On** and the **Size** is set to ■■ (PBP Mode).

Sharpness

— This menu is not available when SAMSUNG MAGIC**Bright** is in **Cinema** or **Dynamic Contrast** mode.

— This menu is not available when **Game Mode** is enabled.

— Not available when **PIP/PBP Mode** is set to **On**.

1 Move the JOG button UP/DOWN to select **Brightness**, **Contrast** or **Sharpness**.

2 Move the JOG button LEFT/RIGHT to adjust the **Brightness**, **Contrast** or **Sharpness** setting.

Configuring Volume in the Initial Screen

You can adjust **Volume** by moving the JOG button left or right, if no OSD menu is displayed.



– The displayed image may differ depending on the model.

Volume

1 Adjust the **Volume** controlling the JOG button LEFT/RIGHT.

— If the audio quality of a connected input device is poor, the Auto Mute function on the product may mute the sound or cause choppy audio when applying the headphones or speakers. Set the input volume for the input device to at least 20% and control the volume using the volume control (JOG button LEFT/RIGHT) on the product.

- What is Auto Mute?
  The function mutes the audio to improve sound effect when there is sound noise or when the input signal is weak, usually due to a problem with the volume of an input device.

Chapter 09
Installing the Software

Easy Setting Box



Easy Setting Box

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

Installing the Software

1 Insert the installation CD into the CD-ROM drive.

2 Select the **Easy Setting Box** setup programme.

— 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 Vista 32Bit/64Bit
- Windows 7 32Bit/64Bit
- Windows 8 32Bit/64Bit
- Windows 8.1 32Bit/64Bit

Hardware

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

Removing the Software

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

Select **Easy Setting Box** from the programme list and click the **Add/Delete** button.

Chapter 10
Troubleshooting Guide

Requirements Before Contacting Samsung Customer Service Centre

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

Testing the Product

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.

Checking the Resolution and Frequency

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

— The displayed resolution may vary depending on the product or PC system settings.

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.
Blank spaces are found on all four sides of the screen when an HDMI or HDMI-DVI cable is connected to the product and PC.	The blank spaces found on the screen have nothing to do with the product. Blank spaces on the screen are caused by the PC or graphics card. To resolve the problem, adjust the screen size in the HDMI or DVI settings for the graphics card. If the graphics card settings menu does not have an option to adjust the screen size, update the graphics card driver to the latest version. (Please contact the graphics card or computer manufacturer for further details about how to adjust the screen settings.)

Screen issue

Issues	Solutions
The power LED is off. The screen will not switch on.	Check that the power cable is connected properly.
The message Check Signal Cable appears.	Check that the cable is properly connected to the product.
	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 (P.83).
The images on the screen look distorted.	Check the cable connection to the product.

Issues	Solutions
The screen is not clear. The screen is blurry.	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. **There are shadows or ghost images left on the screen.**	Check that the resolution and frequency for the 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 (P.83) 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 colour is inconsistent.	Change the **Color** settings.
The colours 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 LED blinks every 0.5 to 1 second.	The product is operating in power-saving mode.
	Press any key on the keyboard or move the mouse to return to normal operating mode.
Text is blurry.	If using a Windows OS (e.g. Windows 7, Windows 8 or Windows 8.1): Go to **Control Panel** ⟶ **Fonts** ⟶ **Adjust ClearType text** and change **Turn on ClearType**.
Video playback is choppy.	Playback of high-definition large video files can be choppy. This may be because the video player is not optimized for the computer resource. Try playing the file on another video player.

Sound issue

Issues	Solutions
There is no sound.	Check the connection of the audio cable or adjust the volume.
	Check the volume.
The volume is too low.	Adjust the volume.
	If the volume is still low after turning it up to the maximum level, adjust the volume on your PC sound card or software programme.
Video is available but there is no sound.	Sound cannot be heard if a HDMI-DVI cable is used to connect the input device. Connect the device using an HDMI cable or a DP cable.

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.

Other issue

Issues	Solutions
The ports SS 1 and SS 2 are not working.	The USB data transfer feature is not available when the **USB Super Charging** feature is set to **On**. To use the USB data transfer feature, go to **Settings** ⟶ **USB Super Charging**, select a specific USB port(**USB1** or **USB2**), and then select **Off**.

Q & A

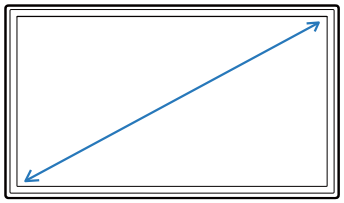
Refer to the user manual for your PC or graphics card for further instructions on adjustment.

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(Windows 8.1): Go to **Settings** ⟶ **Control Panel** ⟶ **Appearance and Personalization** ⟶ **Display** ⟶ **Screen Resolution** ⟶ **Advanced settings** ⟶ **Monitor**, and adjust **Refresh rate** under **Monitor settings**.
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** ⟶ **Display** ⟶ **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(Windows 8.1): Go to **Settings** ⟶ **Control Panel** ⟶ **Appearance and Personalization** ⟶ **Display** ⟶ **Adjust Resolution**, and adjust the resolution.

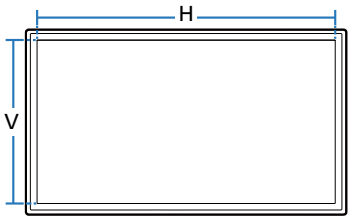
Question	Answer
How do I set power-saving mode?	• Windows XP: Set power-saving mode in **Control Panel** ⟶ **Appearance and Themes** ⟶ **Display** ⟶ **Screen Saver Settings** or BIOS SETUP on the PC. • Windows ME/2000: Set power-saving mode in **Control Panel** ⟶ **Display** ⟶ **Screen Saver Settings** 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(Windows 8.1): Set power-saving mode in **Settings** ⟶ **Control Panel** ⟶ **Appearance and Personalization** ⟶ **Personalize** ⟶ **Screen Saver Settings** or BIOS SETUP on the PC.

Chapter 11
Specifications

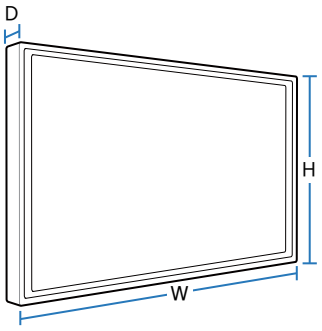
- Size



- Display area



- Dimensions (W x H x D)



General

Model Name		S34E790C
Panel	**Size**	34 Class (34 Inches / 86 cm)
	Display area	797.22 mm (H) x 333.72 mm (V) 31.4 Inches (H) x 13.1 Inches (V)
	Pixel Pitch	0.23175 mm (H) x 0.23175 mm (V) 0.009124 Inches (H) x 0.009124 Inches (V)
Dimensions (W x H x D) / Weight	**Without Stand**	821.5 x 364.0 x 51.5 mm / 7.4 kg 32.3 x 14.3 x 2.0 Inches / 16.3 lbs
	With Stand	MIN: 821.5 x 452.0 x 275.5 mm / 9.9 kg 32.3 x 17.8 x 10.8 Inches / 21.8 lbs MAX: 821.5 x 552.0 x 275.5 mm / 9.9 kg 32.3 x 21.7 x 10.8 Inches / 21.8 lbs
Maximum Pixel Clock		319.75 MHz (DP)
Power Supply		AC 100 - 240 V ~ (+/- 10 %), 50/60 Hz ± 3 Hz Refer to the label at the back of the product as the standard voltage can vary in different countries.
Signal connectors		HDMI, DP Port

Model Name		S34E790C
Environmental conditions	**Operating**	Temperature: 50˚F - 104˚F (10˚C - 40˚C) Humidity: 10 % - 80 %, non-condensing
	Storage	Temperature: -4˚F - 140˚F (-20˚C - 60˚C) Humidity: 5 % - 95 %, non-condensing

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

— This device is a Class B digital apparatus.

PowerSaver

The power-saving function of this product reduces power consumption by switching off the screen and changing the colour of the power LED 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 only functions when the product is connected to a PC with a power-saving function.

PowerSaver	Power Consumption (Energy Star Test Condition)	Power saving mode	Power off (Power button)
Power Indicator	Off	Blinking	On
Power Consumption	Typical 64 W Max 77 W	1 W	0.5 W

— The displayed power consumption level can vary in different operating conditions or when settings are changed.

— 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.

— SOG(Sync On Green) is not supported.

— To reduce the power consumption to 0, disconnect the power cord. Disconnect the power cable if you will not be using the product for an extended period of time (during vacation, etc.)

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. Using 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 your product.

Model Name		S34E790C
Synchronization	**Horizontal Frequency**	30 - 90 kHz (DisplayPort, HDMI)
	Vertical Frequency	29 - 61 Hz (DisplayPort) 24 - 61 Hz (HDMI)
Resolution	**Optimum resolution**	3440 x 1440 @ 60 Hz (DisplayPort) 3440 x 1440 @ 50 Hz (HDMI)
	Maximum resolution	3440 x 1440 @ 60 Hz (DisplayPort) 3440 x 1440 @ 50 Hz (HDMI)

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.

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	+/+

- 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.

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
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	+/+
CEA-861, 2560 x 1080	66.000	60.000	198.000	+/+
VESA, 2560 x 1440 RB	88.787	59.951	241.500	+/-
VESA, 3440 x 1440 (30 Hz)	43.819	29.993	157.750	+/-
VESA, 3440 x 1440 (50 Hz)	73.681	49.987	265.250	+/-
VESA, 3440 x 1440 (DP)	88.819	59.973	319.750	+/-

Chapter 12
Appendix

Contact SAMSUNG WORLD WIDE

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

NORTH AMERICA

U.S.A	1-800-SAMSUNG (726-7864)	http://www.samsung.com/us/support
CANADA	1-800-SAMSUNG (726-7864)	http://www.samsung.com/ca/support (English) http://www.samsung.com/ca_fr/support (French)

LATIN AMERICA

ARGENTINE	0800-333-3733	http://www.samsung.com/ar/support
BOLIVIA	800-10-7260	http://www.samsung.com/cl/support
BRAZIL	0800-124-421 (Demais cidades e regiões) 4004-0000 (Capitais e grandes centros)	http://www.samsung.com/br/support
CHILE	800-SAMSUNG (726-7864)	http://www.samsung.com/cl/support
COLOMBIA	Bogotá 600 12 72 Gratis desde cualquier parte del país 01 8000 112 112 ó desde su celular #SAM(726)	http://www.samsung.com/co/support

LATIN AMERICA

COSTA RICA	0-800-507-7267 00-800-1-SAMSUNG (726-7864)	http://www.samsung.com/latin/support (Spanish) http://www.samsung.com/latin_en/support (English)
DOMINICA	1-800-751-2676	http://www.samsung.com/latin/support (Spanish) http://www.samsung.com/latin_en/support (English)
ECUADOR	1-800-10-72670 1-800-SAMSUNG (72-6786)	http://www.samsung.com/latin/support (Spanish) http://www.samsung.com/latin_en/support (English)
EL SALVADOR	800-6225	http://www.samsung.com/latin/support (Spanish) http://www.samsung.com/latin_en/support (English)
GUATEMALA	1-800-299-0013 1-800-299-0033	http://www.samsung.com/latin/support (Spanish) http://www.samsung.com/latin_en/support (English)
HONDURAS	800-27919267 800-2791-9111	http://www.samsung.com/latin/support (Spanish) http://www.samsung.com/latin_en/support (English)
JAMAICA	1-800-234-7267 1-800-SAMSUNG (726-7864)	http://www.samsung.com/latin_en/support (English)
MEXICO	01-800-SAMSUNG (726-7864)	http://www.samsung.com/mx/support
NICARAGUA	001-800-5077267	http://www.samsung.com/latin/support (Spanish) http://www.samsung.com/latin_en/support (English)

LATIN AMERICA

PANAMA	800-7267 800-0101	http://www.samsung.com/latin/support (Spanish) http://www.samsung.com/latin_en/support (English)
PARAGUAY	009-800-542-0001	http://www.samsung.com/latin/support (Spanish) http://www.samsung.com/latin_en/support (English)
PERU	0-800-777-08	http://www.samsung.com/pe/support
PUERTO RICO	1-800-682-3180	http://www.samsung.com/latin/support (Spanish) http://www.samsung.com/latin_en/support (English)
TRINIDAD & TOBAGO	1-800-SAMSUNG (726-7864)	http://www.samsung.com/latin/support (Spanish) http://www.samsung.com/latin_en/support (English)
URUGUAY	000-405-437-33	http://www.samsung.com/latin/support (Spanish) http://www.samsung.com/latin_en/support (English)
VENEZUELA	0-800-SAMSUNG (726-7864)	http://www.samsung.com/ve/support

EUROPE

AUSTRIA	0800 - SAMSUNG (0800 - 7267864)	http://www.samsung.com/at/support
BELGIUM	02-201-24-18	http://www.samsung.com/be/support (Dutch) http://www.samsung.com/be_fr/support (French)
BOSNIA	051 331 999	http://www.samsung.com/support

EUROPE

BULGARIA	800 111 31, Безплатна телефонна линия	http://www.samsung.com/bg/support
CROATIA	072 726 786	http://www.samsung.com/hr/support
CYPRUS	8009 4000 only from landline, toll free	http://www.samsung.com/gr/support
CZECH	800 - SAMSUNG (800-726786)	http://www.samsung.com/cz/support
	Samsung Electronics Czech and Slovak, s.r.o. V Parku 2343/24, 148 00 - Praha 4	
DENMARK	70 70 19 70	http://www.samsung.com/dk/support
EIRE	0818 717100	http://www.samsung.com/ie/support
ESTONIA	800-7267	http://www.samsung.com/ee/support
FINLAND	030-6227 515	http://www.samsung.com/fi/support
FRANCE	01 48 63 00 00	http://www.samsung.com/fr/support
GERMANY	0180 6 SAMSUNG bzw. 0180 6 7267864* (*0,20 €/Anruf aus dem dt. Festnetz, aus dem Mobilfunk max. 0,60 €/Anruf)	http://www.samsung.com/de/support
GREECE	80111-SAMSUNG (80111 726 7864) only from land line (+30) 210 6897691 from mobile and land line	http://www.samsung.com/gr/support
HUNGARY	0680SAMSUNG (0680-726-786) 0680PREMIUM (0680-773-648)	http://www.samsung.com/hu/support
ITALIA	800-SAMSUNG (800.7267864)	http://www.samsung.com/it/support
LATVIA	8000-7267	http://www.samsung.com/lv/support
LITHUANIA	8-800-77777	http://www.samsung.com/lt/support

EUROPE

LUXEMBURG	261 03 710	http://www.samsung.com/support
MONTENEGRO	020 405 888	http://www.samsung.com/support
NETHERLANDS	0900-SAMSUNG (0900-7267864) (€ 0,10/Min)	http://www.samsung.com/nl/support
NORWAY	815 56480	http://www.samsung.com/no/support
POLAND	0 801-172-678* lub +48 22 607-93-33 * * (koszt połączenia według taryfy operatora)	http://www.samsung.com/pl/support
PORTUGAL	808 20 7267	http://www.samsung.com/pt/support
ROMANIA	08008 726 78 64 (08008 SAMSUNG) Apel GRATUIT	http://www.samsung.com/ro/support
SERBIA	011 321 6899	http://www.samsung.com/rs/support
SLOVAKIA	0800 - SAMSUNG (0800-726 786)	http://www.samsung.com/sk/support
SLOVENIA	080 697 267 090 726 786	http://www.samsung.com/si
SPAIN	0034902172678	http://www.samsung.com/es/support
SWEDEN	0771 726 7864 (SAMSUNG)	http://www.samsung.com/se/support
SWITZERLAND	0800 726 78 64 (0800-SAMSUNG)	http://www.samsung.com/ch/support (German) http://www.samsung.com/ch_fr/support (French)
UK	0330 SAMSUNG (7267864)	http://www.samsung.com/uk/support

CIS

ARMENIA	0-800-05-555	http://www.samsung.com/support
AZERBAIJAN	0-88-555-55-55	http://www.samsung.com/support
BELARUS	810-800-500-55-500	http://www.samsung.com/support
GEORGIA	0-800-555-555	http://www.samsung.com/support
KAZAKHSTAN	8-10-800-500-55-500 (GSM: 7799, VIP care 7700)	http://www.samsung.com/support
KYRGYZSTAN	8-10-800-500-55-500	http://www.samsung.com/kz_ru/support
MOLDOVA	0-800-614-40	http://www.samsung.com/support
MONGOLIA	7-495-363-17-00	http://www.samsung.com/support
RUSSIA	8-800-555-55-55	http://www.samsung.com/ru/support
TADJIKISTAN	8-10-800-500-55-500	http://www.samsung.com/support
UKRAINE	0-800-502-000	http://www.samsung.com/ua/support (Ukrainian) http://www.samsung.com/ua_ru/support (Russian)
UZBEKISTAN	8-10-800-500-55-500	http://www.samsung.com/support

CHINA

CHINA	400-810-5858	http://www.samsung.com/cn/support
HONG KONG	(852) 3698 4698	http://www.samsung.com/hk/support (Chinese) http://www.samsung.com/hk_en/support (English)
MACAU	0800 333	http://www.samsung.com/support

S.E.A

AUSTRALIA	1300 362 603	http://www.samsung.com/au/support
INDONESIA	021-56997777 08001128888	http://www.samsung.com/id/support
JAPAN	0120-363-905	http://www.samsung.com/jp/support
MALAYSIA	1800-88-9999 603-77137477 (Overseas contact)	http://www.samsung.com/my/support
MYANMAR	01-2399888	http://www.samsung.com/support
NEW ZEALAND	0800 726 786	http://www.samsung.com/nz/support
PHILIPPINES	1-800-10-7267864 [PLDT] 1-800-8-7267864 [Globe landline and Mobile] 02-4222111 [Other landline]	http://www.samsung.com/ph/support
SINGAPORE	1800-SAMSUNG (726-7864)	http://www.samsung.com/sg/support
TAIWAN	0800-329999	http://www.samsung.com/tw/support

S.E.A

THAILAND	0-2689-3232, 1800-29-3232	http://www.samsung.com/th/support
VIETNAM	1800 588 889	http://www.samsung.com/vn/support

S.W.A

BANGLADESH	09612300300	http://www.samsung.com/in/support
INDIA	1800 3000 8282 - Toll Free 1800 266 8282 - Toll Free	http://www.samsung.com/in/support
SRI LANKA	0094117540540 0094115900000	http://www.samsung.com/support

MENA

ALGERIA	021 36 11 00	http://www.samsung.com/n_africa/support
BAHRAIN	8000-GSAM (8000-4726)	http://www.samsung.com/ae/support (English) http://www.samsung.com/ae_ar/support (Arabic)
EGYPT	08000-726786 16580	http://www.samsung.com/eg/support
IRAN	021-8255	http://www.samsung.com/iran/support
JORDAN	0800-22273 06 5777444	http://www.samsung.com/Levant/support (English)
KUWAIT	183-CALL (183-2255)	http://www.samsung.com/ae/support (English) http://www.samsung.com/ae_ar/support (Arabic)

MENA

MOROCCO	080 100 22 55	http://www.samsung.com/n_africa/support
OMAN	800-SAMSUNG (800 - 726 7864)	http://www.samsung.com/ae/support (English) http://www.samsung.com/ae_ar/support (Arabic)
PAKISTAN	0800-Samsung (72678)	http://www.samsung.com/pk/support
QATAR	800-CALL (800-2255)	http://www.samsung.com/ae/support (English) http://www.samsung.com/ae_ar/support (Arabic)
SAUDI ARABIA	920021230	http://www.samsung.com/sa/support http://www.samsung.com/sa_en/support (English)
SYRIA	18252273	http://www.samsung.com/Levant/support (English)
TUNISIA	80-1000-12	http://www.samsung.com/n_africa/support
TURKEY	444 77 11	http://www.samsung.com/tr/support
U.A.E	800-SAMSUNG (800 - 726 7864)	http://www.samsung.com/ae/support (English) http://www.samsung.com/ae_ar/support (Arabic)

AFRICA

BOTSWANA	8007260000	http://www.samsung.com/support
BURUNDI	200	http://www.samsung.com/support
CAMEROON	7095-0077	http://www.samsung.com/africa_fr/support
COTE D' IVOIRE	8000 0077	http://www.samsung.com/africa_fr/support

AFRICA

DRC	499999	http://www.samsung.com/support
GHANA	0800-10077 0302-200077	http://www.samsung.com/africa_en/support
KENYA	0800 545 545	http://www.samsung.com/support
MOZAMBIQUE	847267864 / 827267864	http://www.samsung.com/support
NAMIBIA	08 197 267 864	http://www.samsung.com/support
NIGERIA	0800-726-7864	http://www.samsung.com/africa_en/support
RWANDA	9999	http://www.samsung.com/support
SENEGAL	800-00-0077	http://www.samsung.com/africa_fr/support
SOUTH AFRICA	0860 SAMSUNG (726 7864)	http://www.samsung.com/support
SUDAN	1969	http://www.samsung.com/support
TANZANIA	0800 755 755	http://www.samsung.com/support
UGANDA	0800 300 300	http://www.samsung.com/support
ZAMBIA	0211 350370	http://www.samsung.com/support

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 programme.
- 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 separatly 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.

HUB_____ HUB refers to a device that is a common connection point for multiple devices connected over a network. It is used to connect multiple PCs, video devices, office devices and/or LANs over a single network.

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 colour intensity that show variations of colour 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.

Dot Pitch_____ The product and screen consist of red, green and blue dots.

A shorter distance between the dots produces a higher resolution. Dot pitch refers to the distance between the shortest distance between dots of the same colour. Dot pitch is measured in millimeters.

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 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.