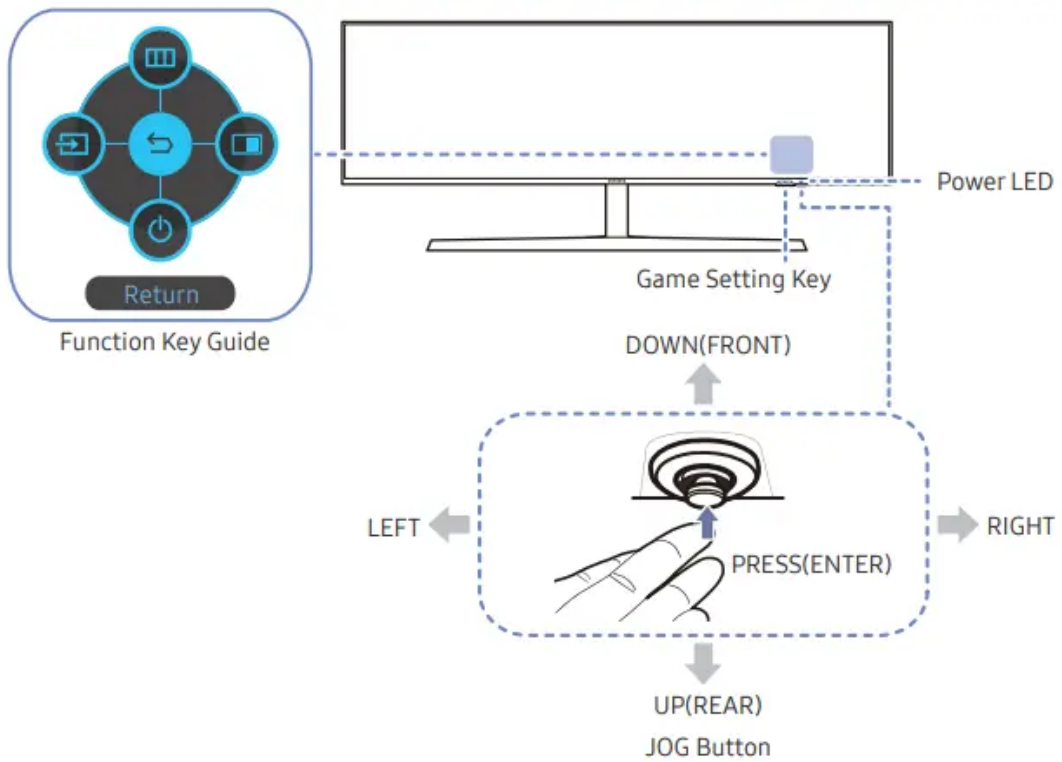


Preparations

Parts

Control Panel

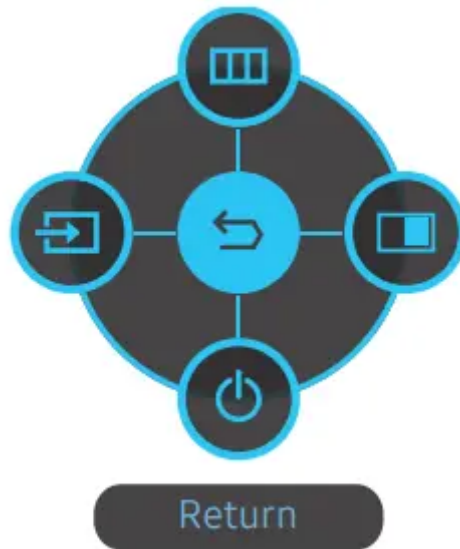
- The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality



Parts	Description
JOG Button	<p>Multi directional button that helps navigate.</p> <ul style="list-style-type: none"> • The JOG button is located at the bottom right side of the screen and has directions of UP, DOWN, LEFT, RIGHT, and PRESS (ENTER)
Power LED	<p>This LED is power status indicator and works as</p> <ul style="list-style-type: none"> • Power On (Power button): Off • Power saving mode: Blinking • Power Off (Power button): On <ul style="list-style-type: none"> ◦ The power Indicator operation can be swapped by changing in the menu.(System → Power LED On) Actual models because of functional variation maybe haven't this function.
Function Key Guide	<p>Press the JOG button when the screen is turned on. The Function KeyGuide will appear. To access the onscreen menu when the guide is displayed, press the corresponding direction button again.</p> <ul style="list-style-type: none"> • Function Key Guide may vary depending on the function or product model. Please refer to the actual product.
Game Setting Key	<p>Use shortcut keys to access previously saved custom game modes.</p> <ul style="list-style-type: none"> • Game Setting 1 / Game Setting 2 / Game Setting 3 <ul style="list-style-type: none"> ◦ The Game Setting Keys are located at the bottom right on the front of the monitor. To edit and save a custom game mode, go to Game → Save Settings.









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
 Menu	Selects  by moving the JOG button in the function key guide screen. The OSD (On Screen Display) of your Monitor's feature appears.
 Source	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.
 PBP	Selects  by moving the JOG button in the function key guide screen. Press the button when configuring settings for the PBP function is required.
 Power Off	Selects  to turn the Monitor off by moving the JOG button in the function key guide screen.

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

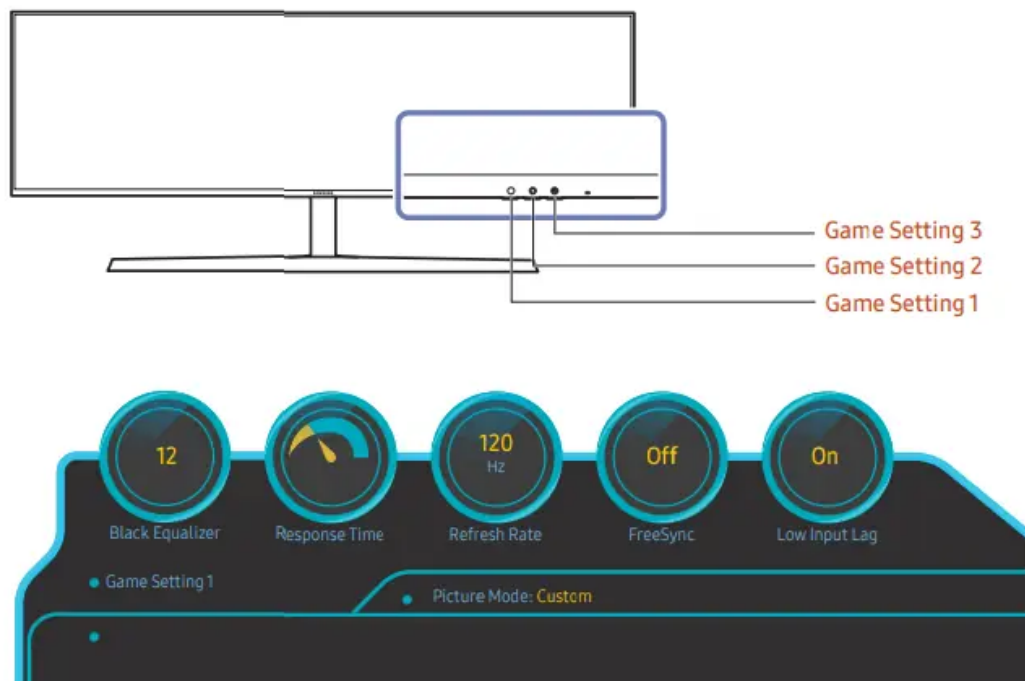
When the monitor displays the Main menu the JOG Button could be used as below

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.

Game Setting Key

You can quickly view the setting with a shortcut key at the bottom without using an OSD menu. You can directly see the settings for three different modes.

- Game Setting 1 / Game Setting 2 / Game Setting 3



The displayed image may differ depending on the model.

The displayed images reflect the status of the functions as the settings in OSD of the corresponding functions other than the real-time values.

This menu is not available when PBP is enabled

Changing Brightness, Contrast and Sharpness settings

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



- The displayed image may differ depending on the model.
- The default brightness can vary depending on the region.

Brightness

This menu is not available when Eye Saver Mode is enabled.

This menu is not available when Picture Mode is set to Dynamic Contrast mode.

Contrast

This menu is not available when Picture Mode is set to Cinema or Dynamic Contrast mode.

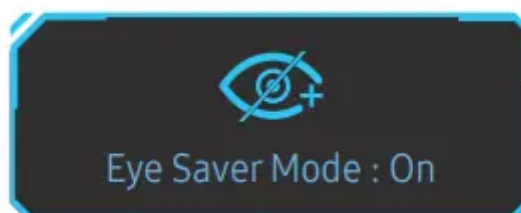
Sharpness

This menu is not available when Picture Mode is set to Cinema or Dynamic Contrast mode.

This menu is not available when PBP is enabled.

Changing Eye Saver Mode settings

You can adjust Eye Saver Mode by moving the JOG button down, if no OSD menu is displayed



- The displayed image may differ depending on the model

Changing the Volume setting

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.
- 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?

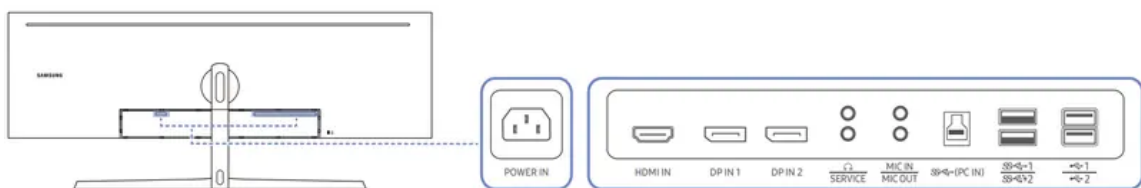
The function mutes the audio to improve sound effect when there is sound noise or when the input signal is weak, usually due to a problem with the volume of an input device.












- To activate the Mute function, access the Volume control screen, then use the JOG button to move the focus down.

To deactivate the Mute function, access the Volume control screen, then increase or decrease the Volume

Types of Ports

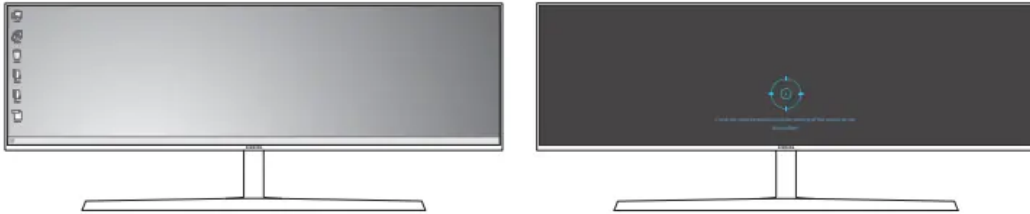
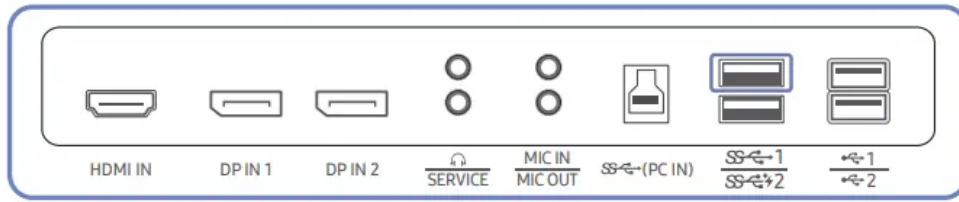
The functions available may vary depending on the product model. The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality. Refer to the actual product.



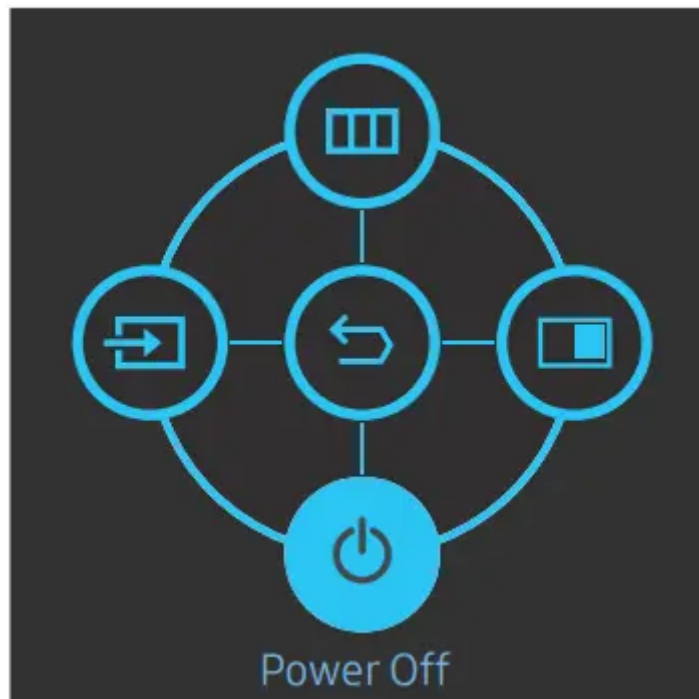
Port	Description
	Connect the power cord for your monitor to the POWER IN port on the back of the product.
	Connect the power cord for your monitor to the POWER IN port on the back of the product.
	Connects to a PC using a DP cable.
	Connect to an audio output device such as headphones.
	Dedicated to service technicians
	Connect to a microphone.
	Connect to a PC.
	Connects to a PC using a USB cable. Compatible with a USB cable version 3.0 or lower. <ul style="list-style-type: none"> This port can only connect to a PC.
	Connect to a USB device. <ul style="list-style-type: none"> Super charging is possible using the  2 port only. This port charges devices faster than typical USB port. The speed depends on the connected devices.
	Connect to a USB device.

Upgrading the Software via USB

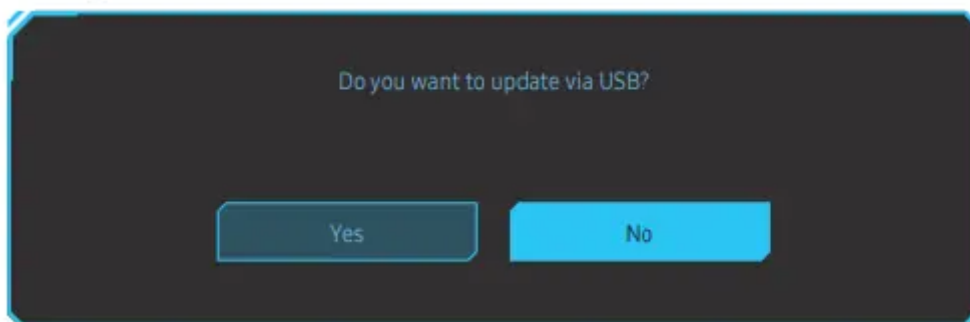
1. Be sure to insert the USB disk into the 1 port. You can upgrade the software via USB only if either the monitor screen operates normally or the check signal is displayed on the monitor screen.



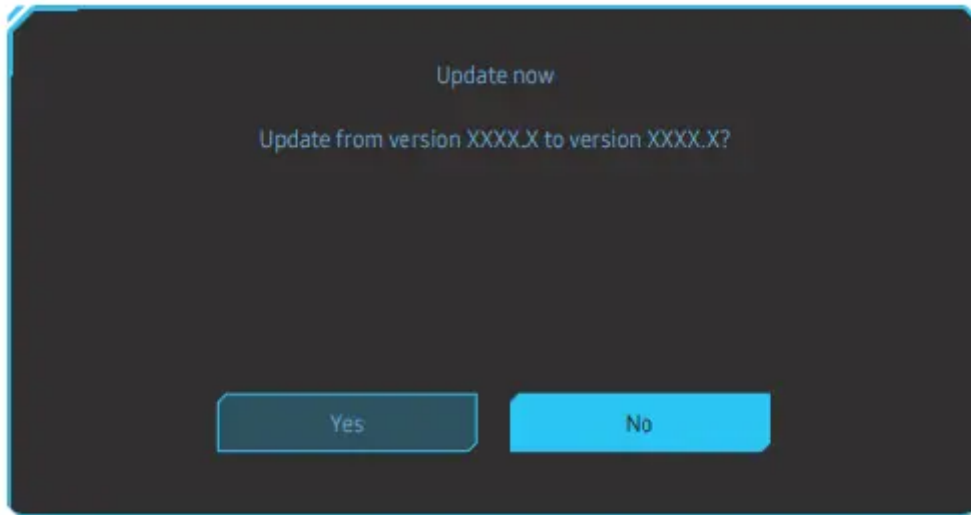
When the screen as shown in the following figure is displayed, press and hold the Down arrow key for 5 seconds.



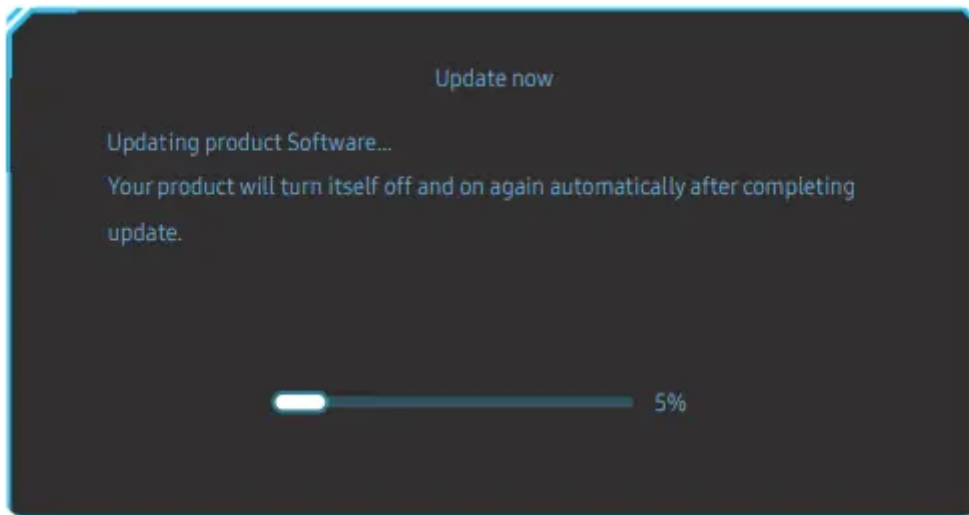
2. When the message as shown in the following figure is displayed on the monitor, select Yes to upgrade the software.



3. When the screen as shown in the following figure is displayed, select Yes.

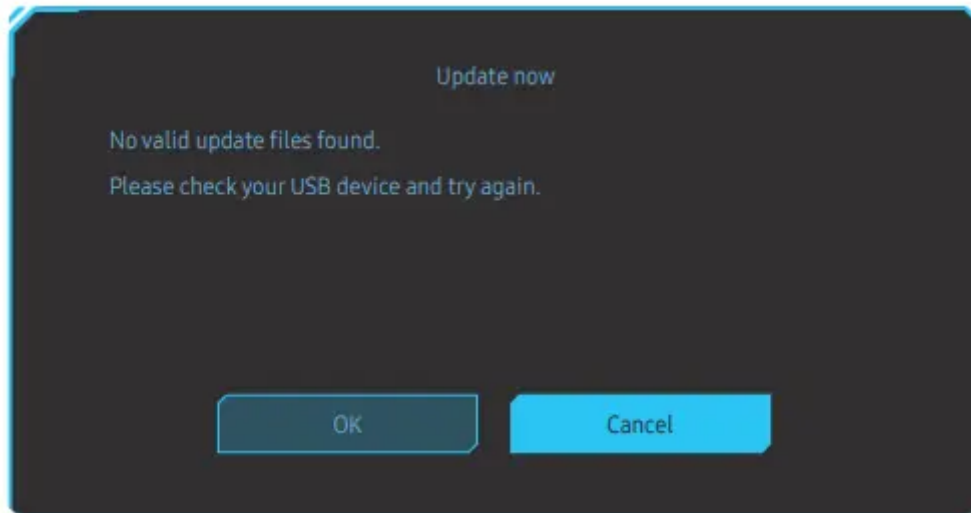



4. The software upgrading proceeds.



Note

1. The supported USB disk formats are FAT, FAT32, and NTFS.
2. For the CRG9 model, make sure that each upgrade file is a BIN format file, follows the CRG9 model naming rule (m-RG949CCAA-****.*[4 digits].bin, where ****.* is a version number, and 4 digits are a checksum. For example, "m-RG949CCAA-1000.0[6E80].bin" complies with the naming rule for the CRG9 model.), and must be copied to the root directory.
3. Make sure that the USB disk only contains one upgrade file for each model, and then follow the instructions in this guide.
4. If the No valid update files found. Please check your USB device and try again. message is displayed, this is probably due to the following reasons.



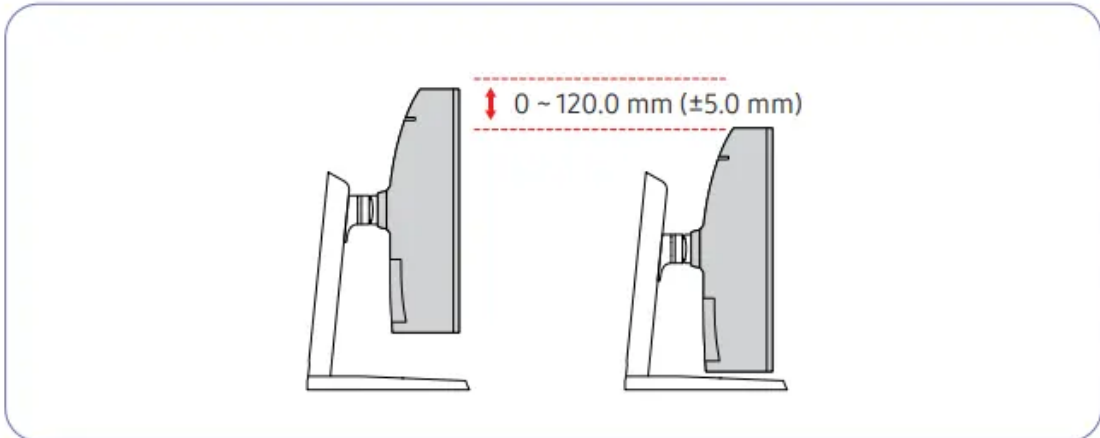
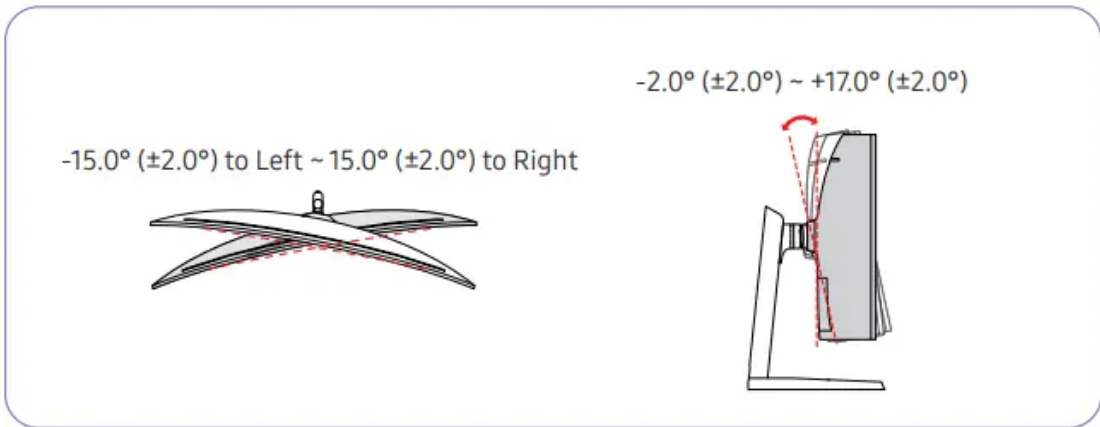
- No USB disk is inserted into the  1 port.
- The USB disk format is not supported.
- The USB disk contains no valid upgrade files. (No upgrade files exist, or the file names are incorrect.)

5. Do not turn off the monitor. And prevent the upgrading from any interruption as far as possible. If an interruption happens, the monitor will return to the production version.

- Note that the production version may not be the same as the version before this upgrading if some other upgrading has been done earlier.

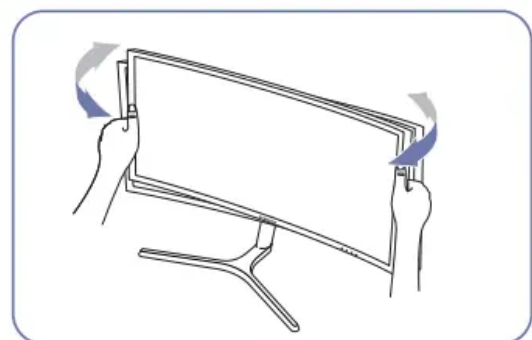
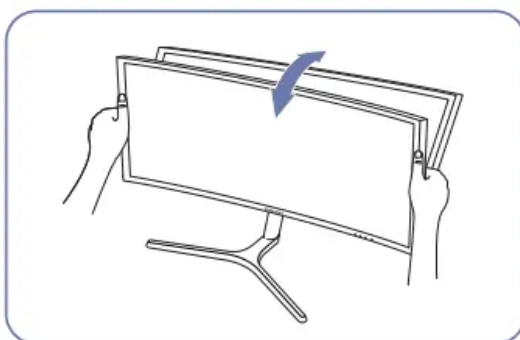
Adjusting the Product Tilt and Height

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



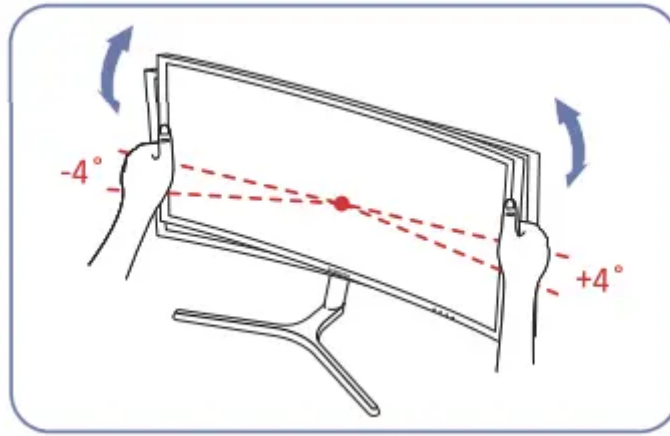
- The monitor tilt and height can be adjusted.
- When adjusting the tilt and height, hold both sides of the product and avoid using excessive force to prevent damage.
- When adjusting the stand height, you may hear a noise. This noise is generated because the ball inside the stand slides when the stand height is adjusted. It is a normal noise and not a product malfunction

Caution



- Grasp the left and right sides of the monitor and adjust the tilt

After adjusting the product tilt and height, if the screen is not level, take the following actions.



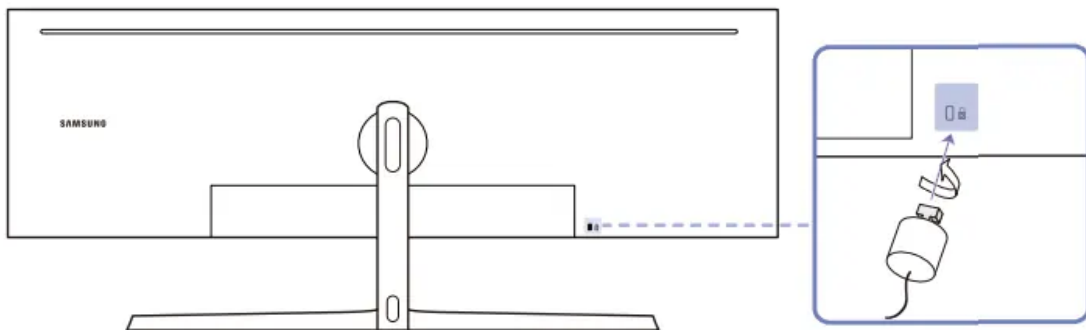
- Hold the bezel at both side edges and adjust the monitor angle until the screen becomes level. (Be careful not to directly hold the LCD display.)
- The monitor angle can be adjusted from -4° to $+4^{\circ}$.

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.

Installation

Attaching the Stand

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

Caution

Hold the stand neck with both hands, not one hand, to prevent it from falling off and causing injury.

Place the stand neck on the monitor as shown in the figure.

Fasten the screws at the top of the stand neck.

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

Disassemble the COVER-REAR TOP

Assemble the COVER-REAR TOP to the stand neck as shown in the figure.

Rotate the COVER-REAR TOP clockwise.

Stand up the monitor as shown in the figure.

Remove the package.

Removing the Stand (For Attaching the BRACKET WALL)

Before removing the stand from the monitor, place the monitor on a flat and stable surface with the screen facing down

Rotate the COVER-REAR TOP counterclockwise.

Lift the COVER-REAR TOP

Disassemble the COVER-REAR TOP.

Remove the stand base from the stand neck.

Unfasten the 4 screws at the top of the stand neck.

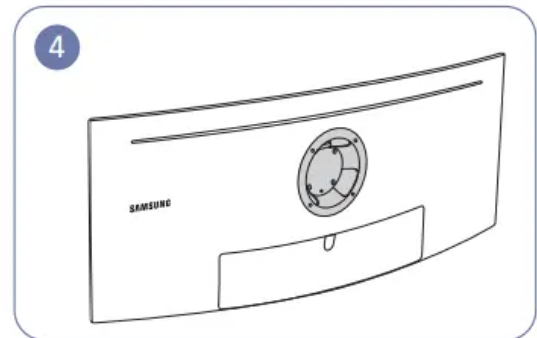
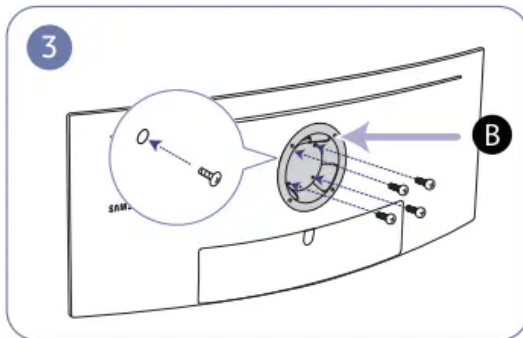
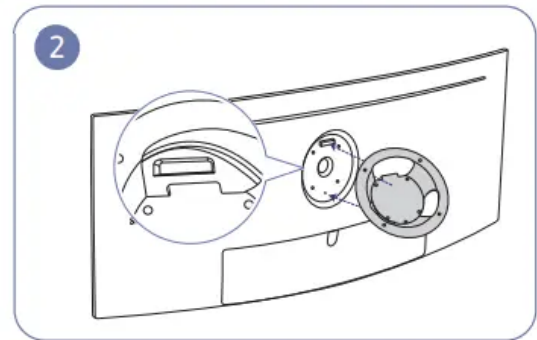
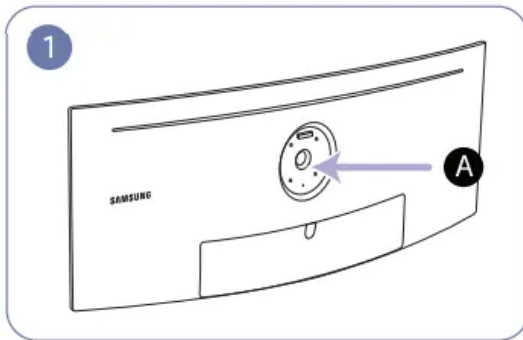
Lift and remove the stand.

Caution

Do not press down on the monitor. There is a risk of damaging the monitor.

Attaching the BRACKET WALL

- Power the product off and remove the power cable from the power socket



A Attach the BRACKET WALL here

B BRACKET WALL

Align **B** with **A** on the monitor, then tightly fasten with the screws removed from the stand (P. 19).

Notes

- Using a screw longer than the standard length can damage the internal components of the product.

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

Unit: mm

Model name	VESA screw hole specs in millimeters	Standard Screw	Quantity
C49RG90SS*	100.0 x 100.0	4.0 mm Φ , 0.7 pitch * 10.0 mm long	4 EA

Connecting and Using a Source Device

Pre-connection Checkpoints

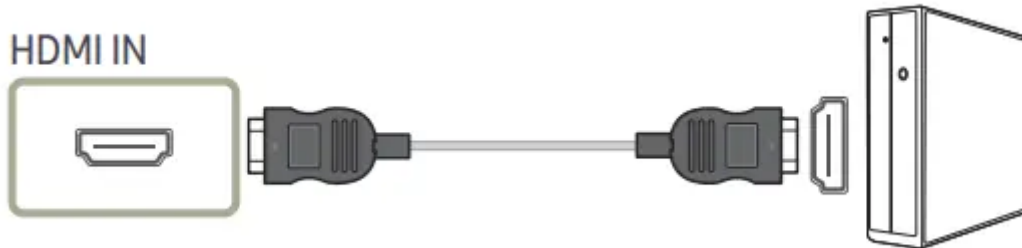
- Before connecting a source device, read the user manual provided with it.
- The number and locations of ports on source devices may differ from device to device.
- Do not connect the power cable before connecting all other cables. Ensure you connect a source device first before connecting the power cable. 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

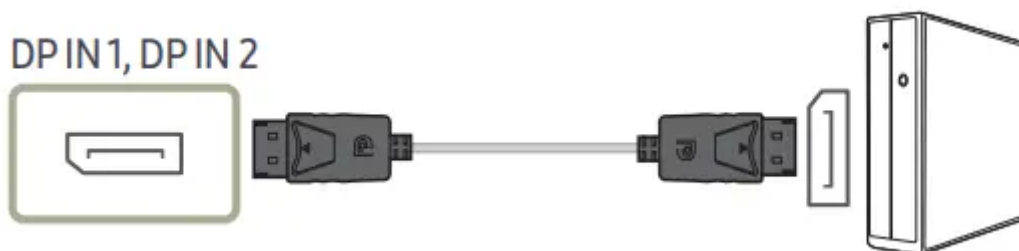
Select a connection method suitable for your PC.

- Connecting parts may differ in different products.
- Provided ports may vary depending on the product.

Connection Using the HDMI Cable



Connection Using the DP Cable



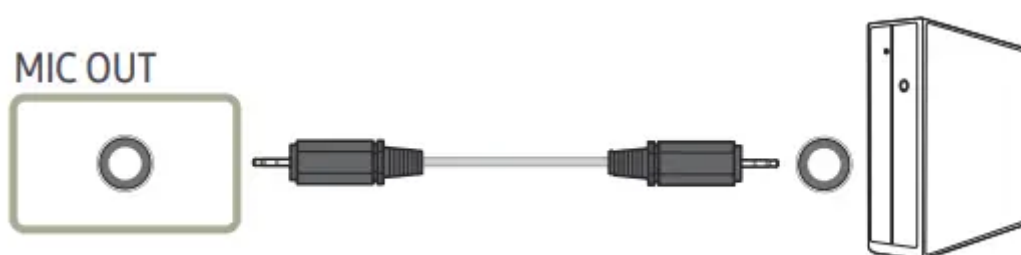
Connecting to Headphones



Connecting to Microphone



Connection Using the Audio Cable

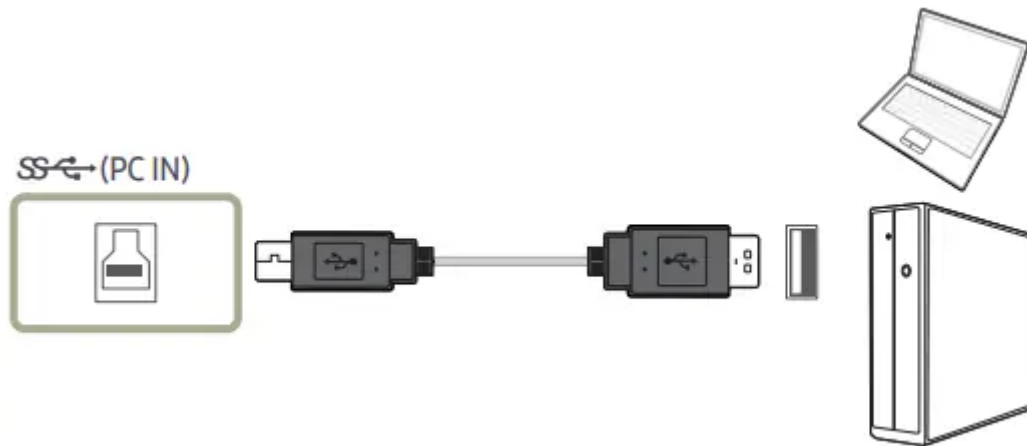




Connecting the Product to a PC as a USB HUB

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.



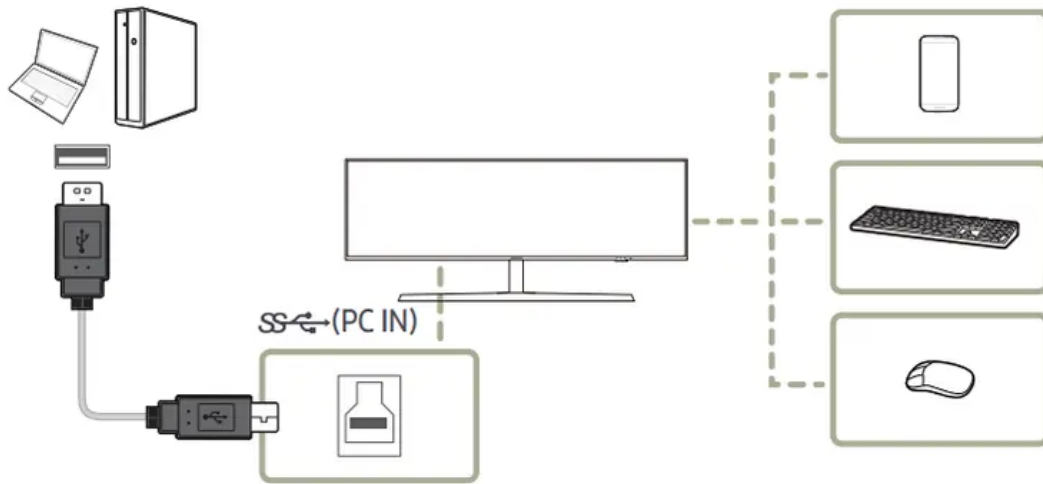
Connect the USB cable to  on the back of the product and USB  on the PC.

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 USB device faster, connect the device to the USB 3.0 port on the product. The read/write rate will be affected by the USB device and your PC.
- The product does not support media play. If you need to play a file in your USB device, please connect the product as a Hub to your PC and play the file on your PC.
- For USB-related problems caused by OS, drive programs or software, please contact relevant suppliers.
- With the launch of various USB devices on the market, we cannot guarantee that our products are matched with all USB devices.
- For an external mass-storage HDD requiring external power supply, be sure to connect it to a power source.
- The super charging can only be provided through port  2. According to the USB 3.0 battery charging specification,  2 can support a maximum current of 1.5A. The actual current value depends on the device to be charged.
- If the current is too high or an exception occurs, the over-current protection will be triggered. This is a normal setting of the product.
- USB devices requiring high current may not be supported.  1 can support a maximum current of 1.0A, and  2 can support a maximum current of 1.5A.

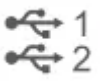
- The battery can be charged in the power-saving mode, but it cannot be charged when the product is powered off.
- Charging your USB device is not possible if the power cable is disconnected from the power socket.
- The USB device needs to be purchased separately

Connecting a USB device

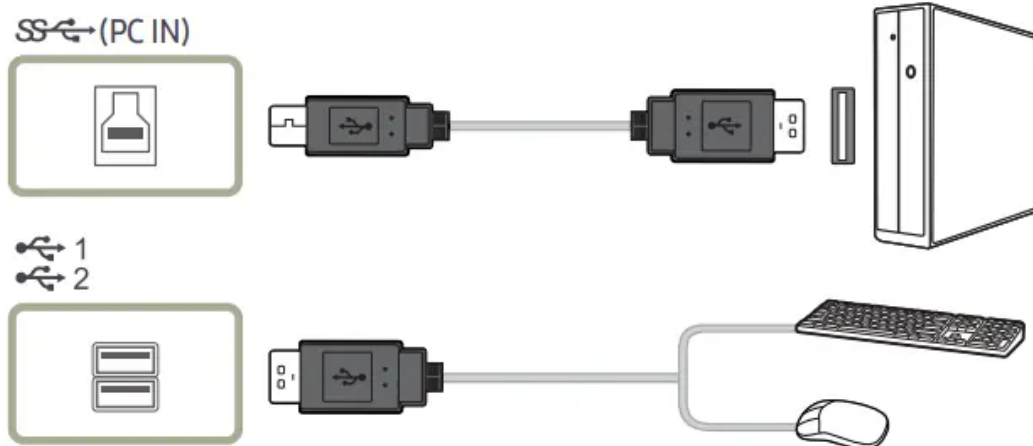
- You can use a USB device such as a mouse, keyboard, memory stick or external hard


disk drive (HDD) by connecting it directly to the  port on the monitor. You do not need to connect it to the computer.


For an external mass-storage HDD requiring external power supply, be sure to connect it to a power source.


The  USB port of the monitor supports High-Speed Certified USB 2.0.


	High speed	Full speed	Low speed
Data Rate	480 Mbps	12 Mbps	1.5 Mbps
Power Consumption	2.5 W (Max., each port)	2.5 W (Max., each port)	2.5 W (Max., each port)





1. Connect the  port of the monitor and the USB port of the computer with the USB cable.

- To use  port, you have to connect the UP (Upstream Cable) to the PC.
- Make sure to use the USB cable supplied with this monitor to connect the monitor's

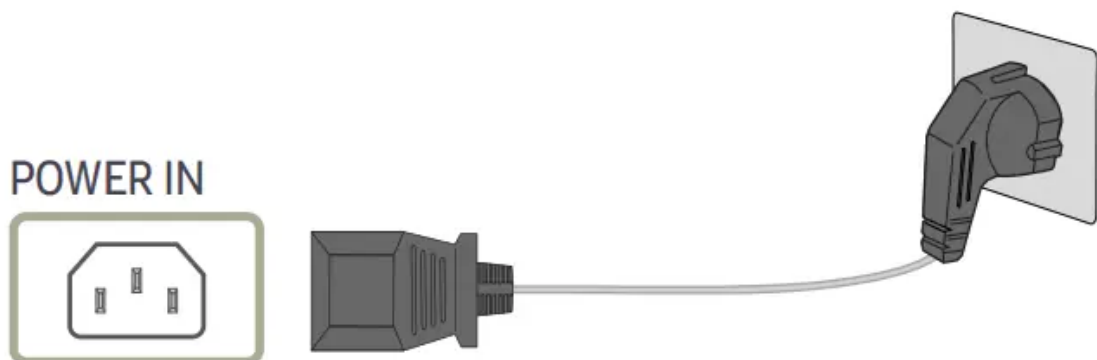
 port and your computer's USB port.

2. Use the USB cable to connect a USB device to the  port on the monitor.
3. The use procedures are as the same as those for using an external device connecting to the PC.

- You can connect and use a keyboard and mouse.
- You can play a file from a media device. (Examples of media devices: MP3, digital camera, etc.)
- You can run, move, copy or delete the files on the storage device. (Examples of storage devices: external memory, memory card, memory reader, HDD-type MP3 player, etc.)
- You can use other USB devices that can be connected to a computer.

-  When connecting a device to the  port of the monitor, connect the device using a cable appropriate to the device.
- For the purchase of the cable and external devices, ask the service center of the corresponding product.
- The company is not liable for problems or damages to an external device caused by using an unauthorized cable for the connection.
- Some products do not follow the USB standard, and it may cause a malfunction of the device.
- If the device malfunctions even if it is connected to the computer, contact the service center of the device/ computer.
- With the launch of various USB devices on the market, we cannot guarantee that our products are matched with all USB devices.

Connecting the Power



To use the product, connect the power cable to a power outlet and the POWER IN port on the product.

- The input voltage is switched automatically.

Tidying Up the Connected Cables



Headphones hanger



Downward



Upward

Connect the corresponding cables.

Arrange the cables against the bend tendency of the cables and pull the cables out of the COVER-REAR SUB grooves.

Hang the HOLDER-CABLE in the direction as shown in the figure.

Arrange the cables against their bend tendency, and then pull them through the HOLDER-CABLE hangers. When the set height is changed, you need to arrange the cables and pull them through the HOLDER-CABLE hangers again.

Push the COVER STAND BODY REAR in the direction as shown in the figure.

Remove the COVER STAND BODY REAR by pulling it in the direction as shown in the figure.

Place the corresponding cables into the stand-neck holder. Do not stretch the cable. Three cables in one holder is recommended.

Attach the COVER STAND BODY REAR in the direction as shown in the figure with the buckles not being exposed.

Move down the COVER STAND BODY REAR until it covers the stand neck completely.

Adjust the set height, if required.



Open the Headset Hanger by pushing it down.

Hang the headset.

Rotate and then push up the Headset Hanger in the directions as shown in the figure.

Caution

Open the COVER-REAR SUB in the direction as shown in the figure.

Troubleshooting Guide

Requirements Before Contacting Samsung Customer Service Center

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

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 the cable connection and the settings of the source device 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 computer system settings and cables.

Check the following.

Installation issue (PC mode)

- **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

- **The power LED is off. The screen will not switch on.**
 - Check that the power cable is connected properly.
- **The message Check the cable connection and the settings of the source device 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.52).
 - The images on the screen look distorted.
 - Check the cable connection to the product.
- **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.52) in this manual and the Information menu on the product.
- **The screen is too bright. The screen is too dark.**
 - Adjust Brightness and Contrast.
- **Screen color is inconsistent.**
 - Change the Color settings.
- **The colors on the screen have a shadow and are distorted.**
 - Change the Color settings.
- **White does not really look white.**
 - Change the Color settings.
- **There is no image on the screen and the power 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, Windows 8.1 or Windows 10): 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

- **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 program.

- **Video is available but there is no sound.**

- Sound cannot be heard if an HDMI-DVI cable is used to connect the input device.
- Connect the device using an HDMI cable or DP cable.

Source device issue

- **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

Q & A

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

How can I change the frequency?

Set the frequency on your graphics card.

- 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.
- Windows 10(Early version): Go to Settings → System → Display → Advanced display settings → Display adapter properties → Monitor, and adjust Screen refresh rate under Monitor settings.
- Windows 10(Version 1703 and later): Go to Settings → System → Display → Display adapter properties → Monitor, and adjust Screen refresh rate under Monitor settings.

How can I change 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.
- Windows 10(Early version): Go to Settings → System → Display → Advanced display settings, and adjust the resolution.
- Windows 10(Version 1703 and later): Go to Settings → System → Display, and adjust the resolution.

How do I set power-saving mode?

- Windows 7: Set power-saving mode in Control Panel → Appearance and Personalization → Personalize → Screen Saver Settings → Power options 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 → Power options or BIOS SETUP on the PC.
- Windows 10(Early version): Set power-saving mode in Settings → Personalization → Lock screen → Screen timeout settings → Power & sleep or BIOS SETUP on the PC.
- Windows 10(Version 1703 and later): Go to Settings → Power & sleep, and make the setup.

Specifications

General

Model Name	C49RG90SS*
Size	123.9 cm
Display area	1193.472 mm (H) x 335.664 mm (V)
Pixel Pitch	0.2331 mm (H) x 0.2331 mm (V)
Maximum Pixel Clock	970 MHz
Power Supply	AC100-240V~ 50/60Hz Refer to the label at the back of the product as the standard voltage can vary in different countries.
Signal connectors	HDMI, DisplayPort
Environmental conditions	Operating Temperature: 10 °C – 40 °C (50 °F – 104 °F) Humidity: 10 % – 80 %, non-condensing
	Storage Temperature: -20 °C – 45 °C (-4 °F – 113 °F) Humidity: 5 % – 95 %, non-condensing

Plug-and-Play

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

Panel Dots (Pixels)

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

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

This device is a Class B digital apparatus.

For detailed device specifications, visit the Samsung Electronics website.

Standard Signal Mode Table

Synchronization	Horizontal Frequency	30 – 190 kHz
	Vertical Frequency	24 – 120 Hz
Resolution	Optimum resolution	5120 x 1440 @ 60 Hz (HDMI) 5120 x 1440 @ 120 Hz (DisplayPort)
	Maximum resolution	5120 x 1440 @ 60 Hz (HDMI) 5120 x 1440 @ 120 Hz (DisplayPort)

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.

HDMI					
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 DMT, 640 x 480	31.469	59.940	25.175	-/-	
VESA DMT, 640 x 480	37.861	72.809	31.500	-/-	
VESA DMT, 640 x 480	37.500	75.000	31.500	-/-	
VESA DMT, 800 x 600	35.156	56.250	36.000	+/*	
VESA DMT, 800 x 600	37.879	60.317	40.000	+/*	
VESA DMT, 800 x 600	48.077	72.188	50.000	+/*	
VESA DMT, 800 x 600	46.875	75.000	49.500	+/*	
VESA DMT, 1024 x 768	48.363	60.004	65.000	-/-	
VESA DMT, 1024 x 768	56.476	70.069	75.000	-/-	
VESA DMT, 1024 x 768	60.023	75.029	78.750	+/*	
VESA DMT, 1152 x 864	67.500	75.000	108.000	+/*	
VESA DMT, 1280 x 720	45.000	60.000	74.250	+/*	

HDMI					
Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)	
VESA DMT, 1280 x 800	49.702	59.810	83.500	-/+	
VESA DMT, 1280 x 1024	63.981	60.020	108.000	+/*	
VESA DMT, 1280 x 1024	79.976	75.025	135.000	+/*	
VESA DMT, 1440 x 900	55.935	59.887	106.500	-/+	
VESA DMT, 1600 x 900	60.000	60.000	108.000	+/*	
VESA DMT, 1680 x 1050	65.290	59.954	146.250	-/+	
VESA DMT, 1920 x 1080	67.500	60.000	148.500	+/*	
CEA, 1920 x 1080	112.500	100.000	297.000	+/*	
CEA, 1920 x 1080	135.000	120.000	297.000	+/*	
CEA, 2560 x 1080	66.000	60.000	198.000	+/*	
CEA, 2560 x 1080	125.000	100.000	371.250	+/*	
CEA, 2560 x 1080	150.000	120.000	495.000	+/*	
VESA CVT, 2560 x 1440	88.787	59.951	241.500	+/-	
VESA CVT, 3840 x 1080	66.625	59.968	266.500	+/-	
VESA CVT, 3840 x 1080	113.250	99.956	453.000	+/-	
VESA CVT, 3840 x 1080	137.250	119.974	549.000	+/-	
VESA CVT 5120 x 1440	43.797	29.978	231.250	+/-	
VESA CVT, 5120 x 1440	88.826	59.977	469.000	+/-	

DisplayPort1/DisplayPort2

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 DMT, 640 x 480	31.469	59.940	25.175	-/-

DisplayPort1/DisplayPort2

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
VESA DMT, 640 x 480	37.861	72.809	31.500	-/-
VESA DMT, 640 x 480	37.500	75.000	31.500	-/-
VESA DMT, 800 x 600	35.156	56.250	36.000	+/+
VESA DMT, 800 x 600	37.879	60.317	40.000	+/+
VESA DMT, 800 x 600	48.077	72.188	50.000	+/+
VESA DMT, 800 x 600	46.875	75.000	49.500	+/+
VESA DMT, 1024 x 768	48.363	60.004	65.000	-/-
VESA DMT, 1024 x 768	56.476	70.069	75.000	-/-
VESA DMT, 1024 x 768	60.023	75.029	78.750	+/+
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VESA DMT, 1280 x 800	49.702	59.810	83.500	-/+
VESA DMT, 1280 x 1024	63.981	60.020	108.000	+/+
VESA DMT, 1280 x 1024	79.976	75.025	135.000	+/+
VESA DMT, 1440 x 900	55.935	59.887	106.500	-/+
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VESA DMT, 1920 x 1080	67.500	60.000	148.500	+/+
CEA, 1920 x 1080	112.500	100.000	297.000	+/+
CEA, 1920 x 1080	135.000	120.000	297.000	+/+
CEA, 2560 x 1080	66.000	60.000	198.000	+/+
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VESA CVT, 2560 x 1440	88.787	59.951	241.500	+/-
VESA CVT, 3840 x 1080	66.625	59.968	266.500	+/-
VESA CVT, 3840 x 1080	113.250	99.956	453.000	+/-

DisplayPort1/DisplayPort2

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
VESA CVT, 3840 x 1080	137.250	119.974	549.000	+/-
VESA CVT, 5120 x 1440	88.826	59.977	469.000	+/-
VESA CVT, 5120 x 1440	150.994	99.996	797.250	+/-
VESA CVT, 5120 x 1440	182.955	119.970	966.000	+/-

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.

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.

Warning

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.

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