SAMSUNG

User Manual

S27CM50* S32CM50* S27CM70* S32CM70* S27CM80* S32CM80* S27C90*

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.

The contents of this manual are subject to change without notice to improve quality.

An administration fee may be charged in the following situations:

(a) An engineer is called out at your request, but it is found that the product has no defect (i.e., where the user manual has not been read).

(b) You bring the unit to a repair centre, but it is found that the product has no defect (i.e., where the user manual has not been read).

You will be informed of the administration fee amount before a technician visits.

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Before Using the Product

Safety Precautions

Warning

A serious or fatal injury may result if instructions are not followed.

Caution

Personal injury or damage to properties may result if instructions are not followed.

	CAUTION							
	RISK OF ELECTRIC SH	HOCK. DO NOT	OPEN.					
	D REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT R E. REFER ALL SERVICING TO QUALIFIED PERSONNE		R (OR BACK). THERE ARE NO USER SERVICEABLE					
Í	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.	\sim	AC voltage: Rated voltage marked with this symbol is AC voltage.					
	This symbol indicates that this product has included important literature concerning operation and maintenance.		DC voltage: Rated voltage marked with this symbol is DC voltage.					
	Class II product: This symbol indicates that a safety connection to electrical earth (ground) is not required. If this symbol is not present on a product with a mains lead, the product MUST have a reliable connection to protective earth (ground).		Caution. Consult instructions for use: This symbol instructs the user to consult the user manual for further safety related information.					

Electricity and Safety

Warning

- Do not use a damaged power cord or plug, or a loose power socket.
- Do not use multiple products with a single power socket.
- Do not touch the power plug with wet hands.
- Insert the power plug all the way in so it is not loose.
- Connect the power plug to a grounded power socket (type 1 insulated devices only).
- Do not bend or pull the power cord with force. Be careful not to leave the power cord under a heavy object.
- Do not place the power cord or product near heat sources.
- Clean any dust around the pins of the power plug or the power socket with a dry cloth.

Caution

- Do not disconnect the power cord while the product is being used.
- Only use the power cord provided with your product by Samsung. Do not use the power cord with other products.
- 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.

Installation

Warning

- DO NOT PLACE CANDLES, INSECT REPELLANTS OR CIGARETTES ON TOP OF THE PRODUCT. DO NOT INSTALL THE PRODUCT NEAR HEAT SOURCES.
- 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 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.
- 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) may damage or distort the product. Keep the product away from oil pollution. And do not install or use the product in the kitchen or near the kitchen stove.

Caution

- Do not drop the product while moving.
- Do not set down the product on its front.
- 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 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.
- Before assembling the product, place the product down on a flat and stable surface so that the screen is facing downwards.

Operation

Warning

- There is a high voltage inside the product. Never disassemble, repair or modify the product yourself.
 Contact Samsung Customer Service Centre for repairs.
- To move the product, first disconnect all the cables from it, including the power cord.
- If the product generates abnormal sounds, a burning smell or smoke, disconnect the power cord immediately and contact Samsung Customer Service Centre.
- 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 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 cord.
- Do not drop objects on the product or apply impact.
- Do not move the product by pulling the power cord or any cable.
- If a gas leakage is found, do not touch the product or power plug. Also, ventilate the area immediately.
- Do not lift or move the product by pulling the power cord or any cable.
- Do not use or keep combustible spray or an inflammable substance near the product.
- 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.
- 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.

Caution

- Leaving the screen fixed on a stationary image for an extended period of time may cause afterimage burn-in or defective pixels.
 - Set the screen to power-saving mode or moving-picture screen saver when not 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 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.
- Rest your eyes for more than 5 minutes or look at distance objects for every 1 hour of product use.
- 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.

Cleaning

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.)

Do not press the product screen with hands or other objects. There is a risk of damaging the screen.

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

Take the following steps when cleaning.

- 1. Power off the product and PC.
- 2. Disconnect the power cord from the product.
- Hold the power cord by the plug and do not touch the cable with wet hands. Otherwise, an electric shock may result.
- Wipe the product with a clean, soft and dry cloth.
 Wet a soft cloth in water, wing it out well, and then use the cloth to wipe the exterior of the product clean.
 - Do not apply a cleaning agent that contains alcohol, solvent, or surfactant to the product.
 - Do not spray water or detergent directly on the product.
- 4. Connect the power cord to the product when cleaning is finished.
- 5. Power on the product and PC.

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.
- Do the Eye excercises or blink frequently, then eye fatigue will be relieved.

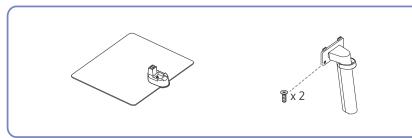


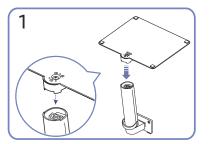
Preparations

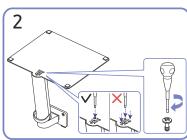
Installation Attaching the Stand

- Before assembling the product, place the product down on a flat and stable surface so that the screen is facing downwards.
- Disassembly is the reverse order of assembly.

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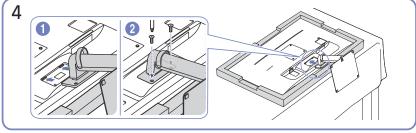




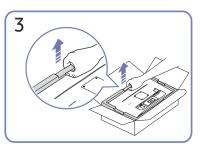


Put the stand base onto the stand neck as the direction shown in the figure. Check that the stand neck is firmly connected.

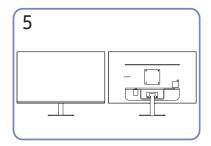
Tightly fasten the connecting screw at the bottom of the stand base. Fasten the large screw in the middle for assembly.



Push the assembled stand into the main body in the direction of the arrow as shown in the figure. Tightly fasten the connecting screw at the bottom of the main body.

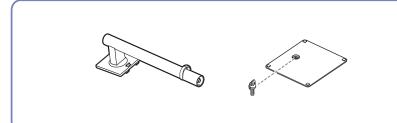


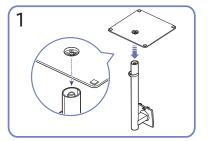
As shown in the figure, remove the product and foam cushion, and then place the product on the table with its front side facing the floor.



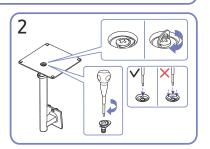
Stand assembly is complete.

S27CM70* / S32CM70*

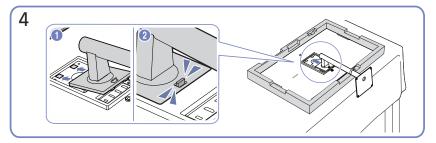




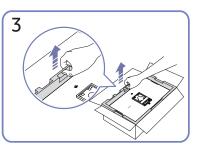
Put the stand base onto the stand neck as the direction shown in the figure. Check that the stand neck is firmly connected.



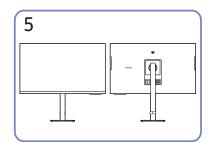
Tightly fasten the connecting screw at the bottom of the stand base. Fasten the large screw in the middle for assembly.



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

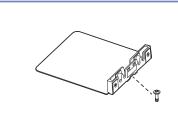


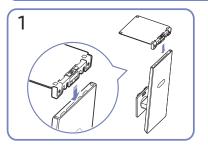
As shown in the figure, remove the product and foam cushion, and then place the product on the table with its front side facing the floor.

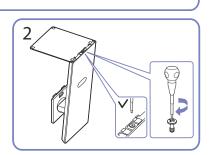


After installing the stand, place the product upright.

S27CM80* / S32CM80* / S27C90*

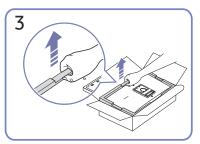




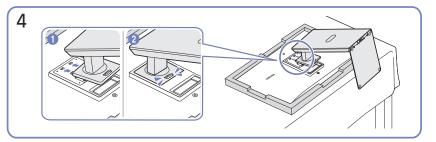


Put the stand base onto the stand neck as the direction shown in the figure. Check that the stand neck is firmly connected.

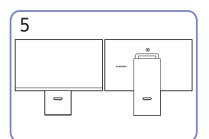
Tightly fasten the connecting screw at the bottom of the stand base.



As shown in the figure, remove the product and foam cushion, and then place the product on the table with its front side facing the floor.

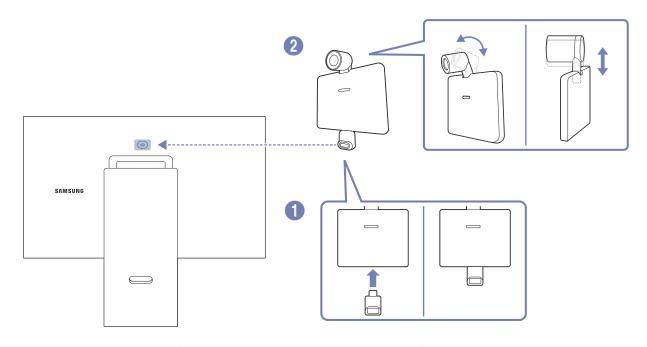


Push the assembled stand into the main body in the direction of the arrow as shown in the figure.



Stand assembly is complete.

Connecting the camera to the product



Camera Specifications	M7/M8 series	S9 series		
Resolution	1920 x 1080, 30 fps (FHD)	3840 x 2160, 30 fps (UHD)		
Automatic light compensation	0	0		
Privacy Cover	0	0		
Viewing angle	85°	90°		
Connection	USB Type-C (USB 2.0)	USB Type-C (USB 3.0)		

Before using the product, use a soft dry cloth to wipe the camera connector, to prevent malfunction due to foreign matter.

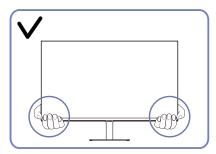
This port is only supported for M7/M8/S9 series.

A camera is only provided for M8/S9 series.

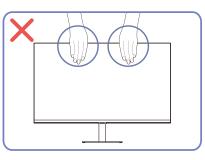
Precautions for moving the product

In the colour and shape of parts may differ from what is shown.

S27CM50* / S32CM50*

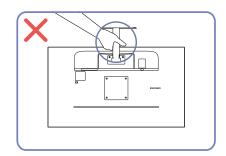


Hold the lower corners or edges of the product when moving it.

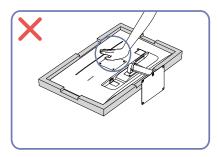


Do not directly apply pressure on the screen.

Do not hold the screen when moving the product.

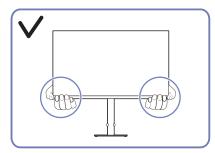


Do not hold the product upside down only by the stand.

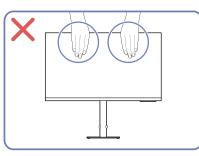


Do not press down on the product. There is a risk of damaging the product.

S27CM70* / S32CM70*

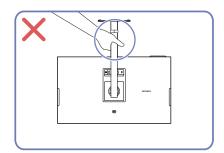


Hold the lower corners or edges of the product when moving it.

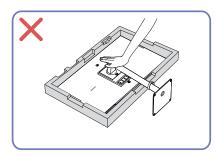


Do not directly apply pressure on the screen.

Do not hold the screen when moving the product.

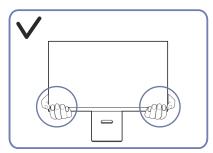


Do not hold the product upside down only by the stand.

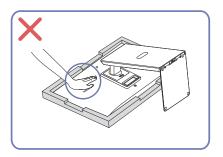


Do not press down on the product. There is a risk of damaging the product.

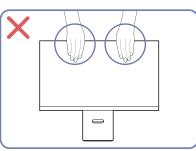
S27CM80* / S32CM80* / S27C90*



Hold the lower corners or edges of the product when moving it.

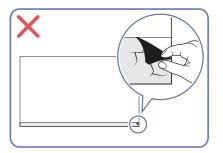


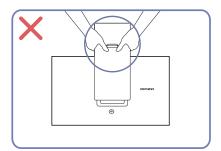
Do not press down on the product. There is a risk of damaging the product.



Do not directly apply pressure on the screen.

Do not hold the screen when moving the product.



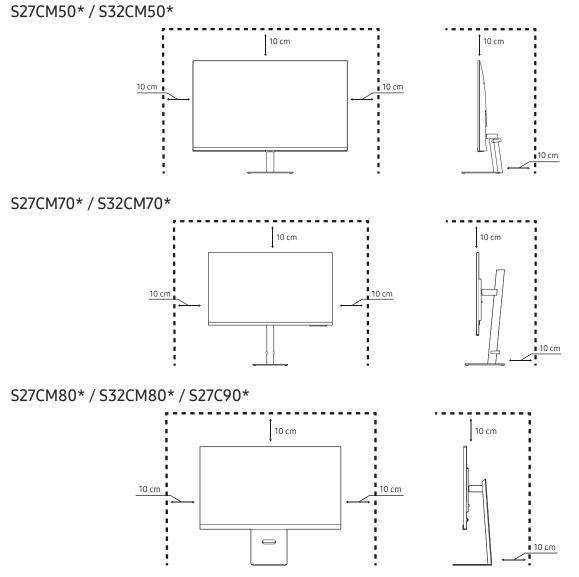


Do not hold the product upside down only by the stand.

Checking the space around the product

Make sure to have enough space for ventilation when placing the product. An internal temperature rise may cause fire and damage the product. Maintain enough space around the product as shown in the diagram when installing the product.

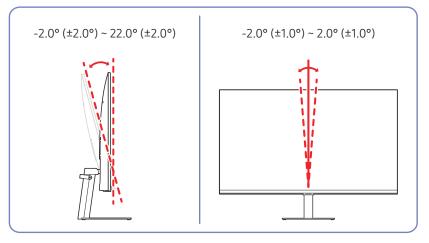




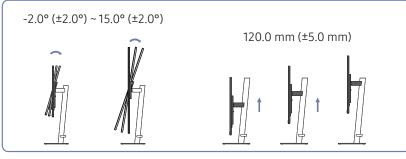
Adjusting the Product Tilt and Height

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

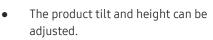
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S27CM50* / S32CM50*
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S27CM70* / S32CM70*

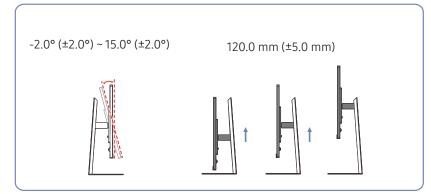


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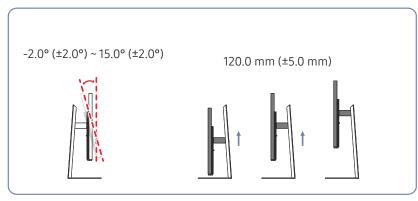


- When adjusting the tilt and height, hold both sides of the product and avoid using excessive force to prevent damage.
- When adjusting the stand height, you may hear a noise. This noise is generated because the ball inside the stand slides when the stand height is adjusted. It is a normal noise and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

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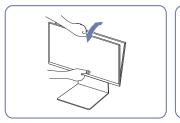


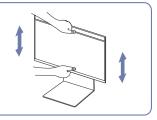
S27C90*

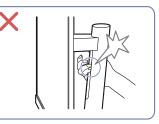


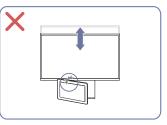
Caution

- 🥒 The Product shape may differ depending on the model.
- S27CM70* / S32CM70* / S27CM80* / S32CM80* / S27C90* model only.



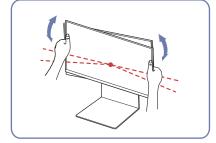






- Grasp the centre of the monitor and adjust the height.
- Do NOT hold the stand moving part with your hand when leveling the screen. Your hand may get hurt.
- Do not put an object around the lower part of the product. The product or object may get damaged when adjusting the product height.

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

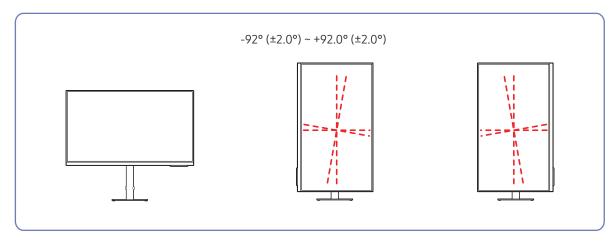


• Hold the bezel at both side edges and adjust the monitor angle until the screen becomes level. (Be careful not to directly hold the LCD display.)

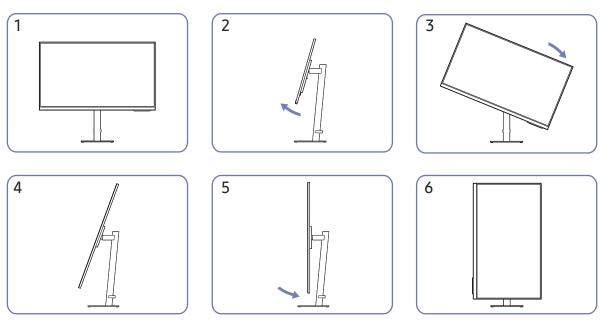
Rotating the Product

- The colour and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.
- S27CM70* / S32CM70* / S27CM80* / S32CM80* / S27C90* model only.

S27CM70* / S32CM70*

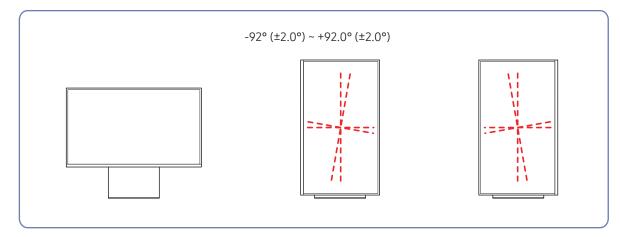


You can rotate your product as shown below.

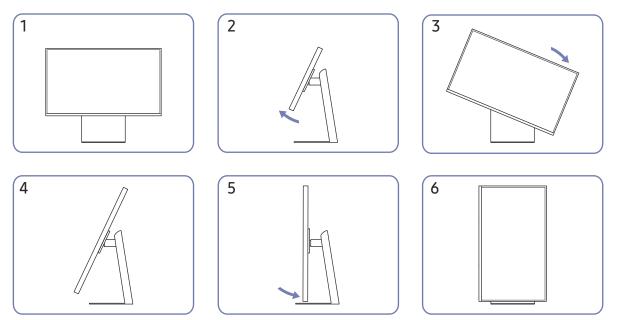


- Be sure to fully extend the stand before rotating the product.
- If you rotate the product without fully extending the stand, the corner of the product may hit the floor and get damaged.
- When rotating the product, be careful not to damage the product by hitting the object or stand.

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You can rotate your product as shown below.

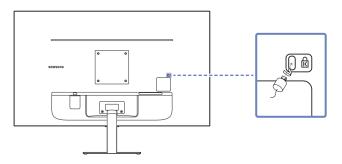


- Be sure to fully extend the stand before rotating the product.
- If you rotate the product without fully extending the stand, the corner of the product may hit the floor and get damaged.
- When rotating the product, be careful not to damage the product by hitting the object or stand.

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 manuals provided with your antitheft 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 manuals provided with your anti-theft locking device for details.
 - Anti-theft locking devices can be purchased at electronics retailers or online.

Wall Mount Kit Specifications (VESA)

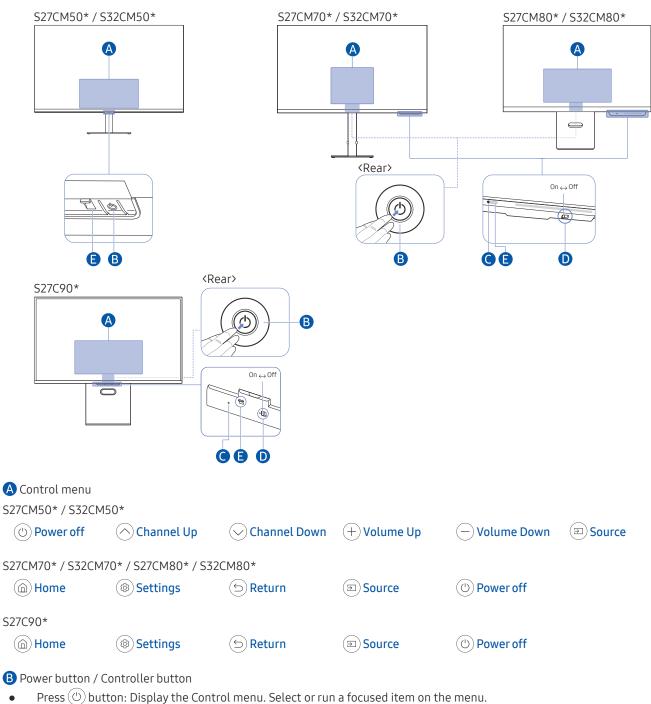
- Install your wall mount on a solid wall perpendicular to the floor. Before attaching the wall mount to surfaces other than plaster board, please contact your nearest dealer for additional information. If you install the product on a slanted wall, it may fall and result in severe personal injury. Samsung wall mount kits contain a detailed installation manual and all parts necessary for assembly are provided.
- Do not use screws that are longer than the standard length or do not comply with the VESA standard screw specifications. Screws that are too long may cause damage to the inside of the product.
- For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on the wall mount specifications.
- Do not fasten the screws too firmly. This may damage the product or cause the product to fall, leading to personal injury. Samsung is not liable for these kinds of accidents.
- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
- Do not mount the product at more than a 15 degree tilt.
- Standard dimensions for wall mount kits are shown in the table below.

Model name	VESA screw hole specs (A * B) in millimeters	С	Standard Screw	Quantity	
S27CM50* S32CM50*		6.7 ~ 8.7 mm			B Wall mount bracket
S27CM70* S27CM80* S32CM70* S32CM80* S27C90*	100.0 x 100.0	5.8 ~ 7.8 mm	M4	4 EA	

🖉 Do not install your Wall Mount Kit while your product is turned on. It may result in personal injury due to electric shock.

Control Panel

You can turn on the product with the Power button, and then use the Control menu. The Control menu appears when the Power button is pressed while the product is On.



- Press and hold (5) button: The running function is terminated.
 - This function may not be supported depending on the model.
- Up/Down button: Changes the channel.
 - This function may not be supported depending on the model.
- Left/Right button: Changes the volume.
 - This function may not be supported depending on the model.
- 🖉 The buttons may work differently depending on the situation.

C Microphone

D Microphone switch

You can turn on or off the microphone by using the switch at the bottom of the Product.

If microphone is turned off, All voice and sound features using microphone are not available.

- The position and shape of the microphone switch may differ depending on the model.
- During analysis using data from the microphone, the data is not saved.

E Power indicator / Remote control sensor

- The LED turns on when the product is turned off.
- The LED blinks when the product enters the standby mode.
 - When 60 seconds elapses with no signal, the product enters the standby mode. In standby mode, the screen turns on again when any signal is input or any button is pressed on the remote control.
- The colour and shape of parts may differ from what is shown.
- The screen may dim if the protective film on the SAMSUNG logo or the bottom of the product is not detached. Please remove the protective film.
- When using the buttons (excluding Power) on the Samsung Smart Remote, the receiver LED does not blink.

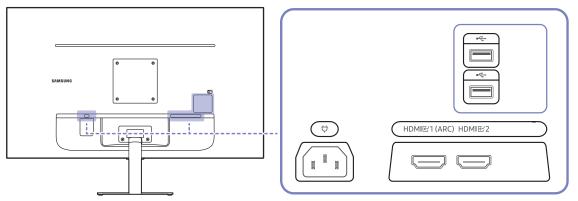
Connections

Using various connectors, you can also connect external devices.

Ports

The functions available may vary depending on the product model. The colour 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.

S27CM50* / S32CM50*

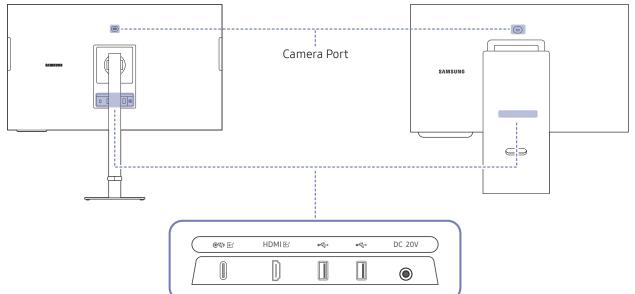


Port	Description
HDMI匠1 (ARC) HDMI匠2	Connects to a source device using an HDMI cable or HDMI-DVI cable.
	Connect to a USB device.
Ų	Connect the power cord for product.

For more information about connection to an external device, refer to → > = Menu > → Connected Devices > Connection Guide.

S27CM70* / S32CM70*

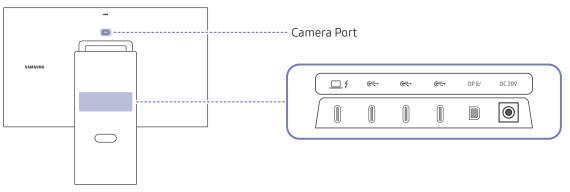
S27CM80* / S32CM80*



Port	Description
	• Connects to a source device using a USB Type-C cable. When connecting a USB Type-C source device, make sure to use the USB Type-C 3.1 Gen210G cable so that the screen is displayed properly.
€₹ 7 E	 Lower version cables do not support the video input function (Displayport ALT). The USB Type-C port can be connected to a notebook or mobile device for charging.
	 A maximum of 65 W charging power is supported. The charging speed may vary, depending on the connected device. Use a camera from the PC connected to the USB Type-C port.
HDMIE	Connects to a source device using an HDMI cable or HDMI-DVI cable.
€ ^{/*}	Connect to a USB device.
DC 20V	Connects to the AC/DC adapter.

For more information about connection to an external device, refer to → > Menu > Connected Devices > Connection Guide.

S27C90*

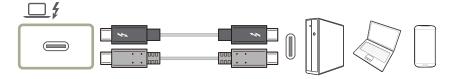


Port	Description
<u> </u>	 Connect to a source device using a Thunderbolt™ 4 cable or USB Type-C cable.
ଙ୍କ	 If an external USB HUB that requires power supply is connected, normal operation may not be possible.
DP 단	Connects to a PC using a DP cable.
DC 20V	Connects to the AC/DC adapter.

- The product may not be compatible with a BDP or gaming device if the device is connected using an uncertified cable, such as an HDMI-to-type-C or HDMI-to-DP gender changer.
- For more information about connection to an external device, refer to > ≡ Menu > Connected Devices > Connection Guide.
- Wi-Fi off in **Eco** mode is recommended to save energy.

Connection Using a Thunderbolt™ 4 Cable or USB Type-C Cable

This function is supported on the S9 series only.



According to the USB Power Delivery 3.0 specification, our product can charge your PC when you connect it to our product using a Thunderbolt™ 4 cable.

To get the full experience of the Thunderbolt[™] 4 technology, connect a PC that supports this technology using a Thunderbolt[™] 4 cable and ensure that all connected devices and cables are approved by Intel Thunderbolt. For detailed approval information, visit the official Intel website.

Before using the product, update the BIOS programme, Thunderbolt firmware, and Thunderbolt software of your PC to their latest versions by visiting the official website of your PC.

For detailed connecting specification of Thunderbolt[™] 4 port, please visit the official website of Thunderbolt.

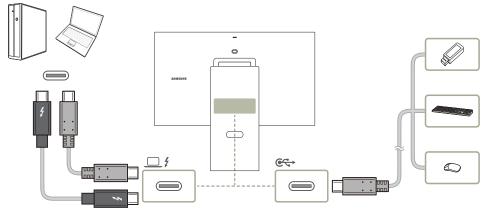
- If you want to charge your PC, make sure that your PC supports power input. Many Thunderbolt™ 4 -compatible PCs do not support charging over a USB Type-C port, and some PCs can charge only their own branded power adapters. Because PC released in the market are very various, we cannot guarantee that our product can charge all types of PC over a Thunderbolt™ 4 port.
- Inlike USB devices, Thunderbolt™ 4 devices must be manually authenticated through Intel's Thunderbolt programme before the system recognises them.
- Considering that it takes a relatively long time to complete the connection and disconnection over Thunderbolt, do not quickly plug in and unplug the signal cable or power cable. Otherwise, your devices may be damaged.
- When connecting an external device that exceeds the charging capacity of the Thunderbolt[™] 4/USB-C port, be sure to use the adapter dedicated to the device. (For charging capacities for each port, see the product specifications in the Samsung website (http://www.samsung.com).

Be sure to use MacOS after upgrading to Catalina 10.15.5 or higher.

- Make sure that the Thunderbolt™ 4 or USB Type-C cable complies with the Thunderbolt™ 4 or USB Type-C specification. Otherwise, your devices may be damaged. A Samsung branded cable is recommended.
- Because of compatibility with the Thunderbolt technology, phones that support the USB Type-C display may not be displayed on our product. To fix this problem, you may need to upgrade the firmware from your phone's manufacturer.
- Connect the Thunderbolt[™] 4 cable to a PC that supports Thunderbolt[™] 4 and connect the USB Type-C cable to a PC that supports USB Type-C.
- port supports a transfer rate of 40 Gb/s at maximum.
- Ø Make sure to use a certified Thunderbolt™ 4 cable. Otherwise, product malfunctions may occur.
- The availability of some functions may vary, depending on the PC.
- 🖉 To connect to a PC via Thunderbolt, connect the cable to the 🛄 🗲 port, one of the four USB Type-C ports.

Connecting the Product to a PC as a USB HUB

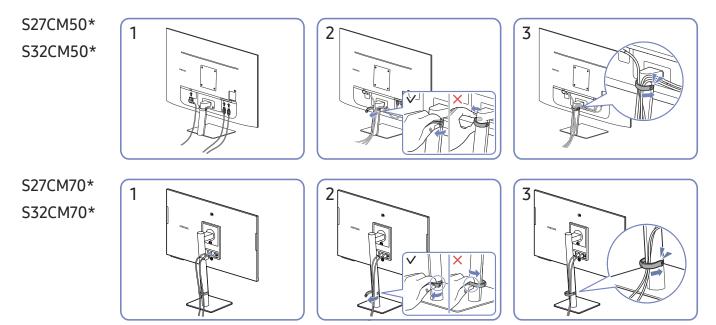
This function is supported on the S9 series only.



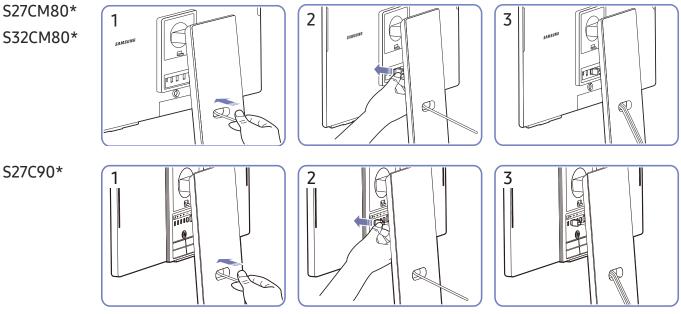
Using the product as a hub, connect and use various source devices with the product at a time.

- To detect and start a USB device (USB memory, Keyboard, Mouse, etc.) faster, connect the USB device to the C port on the product. The read/ write rate will be affected by the USB device and your PC.
- 🖉 For USB-related problems caused by OS, drive programmes 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 company is not liable for problems or damages to an external device caused by using an unauthorised cable for the connection.
- Some products do not follow the USB standard, and it may cause a malfunction of the device.

Tidying Up the Connected Cables



- 1. Connect the corresponding cables.
- Pull the right side of the HOLDER-STAND CABLE to remove from the stand. The left side of the cable can be damaged when pulled forcibly.
- 3. Put both cables in the cable holder on the stand (HOLDER-STAND CABLE) to organise the cables, as shown in the figure. Assembly is complete.



- 1. Pass cables through the hole on the stand.
- 2. Connect the cables to the corresponding ports.
- 3. Organise cables by passing them through the hole on the stand, as shown in the figures.

Precautions and Notes

You can get instructions and information that you must read after installation.

Read After Installing the product

Read this information after installing the product.

Picture sizes and input signals

The Picture Size is applied to the current source. The applied Picture Size will remain in effect whenever you select that source unless you change them.

	Distury size		Series	
Input signal	Picture size	M5	M7/M8	S9
HDMI (720p)	16:9, 4:3	0	0	-
HDMI (1080p)	16:9, 4:3	0	0	-
HDMI (1920 x 800p @ 60Hz)	21:9	0	-	-
HDMI (3840 x 2160p)	16:9	-	0	-
HDMI (3840 x 1600p @ 60Hz)	21:9	-	0	-
HDMI (3840 x 1080p @ 60Hz)	32:9	-	0	-
USB (720p)	16:9, 4:3	0	0	-
USB (3840 x 2160p @ 24/30 Hz)	16:9	-	0	-
USB (3840 x 2160p @ 60 Hz)	16:9	-	0	-
USB Type-C (720p)	16:9, 4:3	-	0	-
USB Type-C (1080p @ 60Hz)	16:9, 4:3	-	0	-
USB Type-C (3840 x 2160p @ 60Hz)	16:9	-	0	-
USB Type-C (3840 x 1600p @ 60Hz)	21:9	-	0	-
USB Type-C (3840 x 1080p @ 60Hz)	32:9	-	0	-
Thunderbolt 4 (720p)	16:9	-	-	0
Thunderbolt 4 (1080p @ 60Hz)	16:9	-	-	0
Thunderbolt 4 (3840 x 1600p @ 60Hz)	21:9	-	-	0
Thunderbolt 4 (3840 x 2160p @ 60Hz)	16:9	-	-	0
Thunderbolt 4 (5120 x 2880p @ 60Hz)	16:9	-	-	0
Thunderbolt 4 (3840 x 1080p @ 60Hz)	32:9	-	-	0
DisplayPort (720p)	16:9	-	-	0

logut cional	Picture size	Series			
Input signal	Picture Size	M5	M7/M8	S9	
DisplayPort (1080p @ 60Hz)	16:9	-	-	0	
DisplayPort (3840 x 1600p @ 60Hz)	21:9	-	-	0	
DisplayPort (3840 x 2160p @ 60Hz)	16:9	-	-	0	
DisplayPort (5120 x 2880p @ 60Hz)	16:9	-	-	0	
DisplayPort (3840 x 1080p @ 60Hz)	32:9	-	-	0	

🥒 The input ports for external devices may differ depending on the model and geographical area.

🖉 Available Picture Size may differ depending on the external device.

Supported Resolutions for UHD Input Signals

Check the supported resolution for UHD input signals.

• Resolution: 3840 x 2160p (M7/M8 series), 5120 x 2880p (S9 series)

If Input Signal Plus is set to Off

Frame rate (fps)	Color Depth / Chroma Sampling	RGB 4:4:4	YCbCr 4:4:4	YCbCr 4:2:2	YCbCr 4:2:0	
50 / 60	8 bit	-	-	-	0	

If Input Signal Plus is set to On

Frame rate (fps)	Color Depth / Chroma Sampling	RGB 4:4:4 YCbCr 4:4:4		YCbCr 4:2:2	YCbCr 4:2:0	
50 / 60	8 bit	0	0	0	0	
	10 bit	-	-	0	0	

For USB-C, YCbCr 4:2:0 is not supported.

Read Before Connecting a Computer (Supported Resolutions)

Check the resolutions supported for PC input signals.

When you connect your product to a computer, set the computer's video card to one of the standard resolutions listed in the tables below or on the next pages. The product will automatically adjust to the resolution you choose. Note that the optimal and recommended resolutions are 1920 x 1080 at 60 Hz (M5 series), 3840 x 2160 at 60 Hz (M7/M8 series), 5120 x 2880 at 60 Hz (S9 series). Choosing a resolution not included in the tables can result in a blank screen or just the remote control sensor turning on. Refer to the user manual of your graphics card for compatible resolutions.

- With Input Signal Plus enabled, the optimal resolutions are 3840 x 2160 at 60 Hz (M7/M8 series) and 5120 x 2880 at 60 Hz (S9 series). With Input Signal Plus disabled, the optimal resolution is 3840 x 2160 at 30 Hz.
- If the resolution is set to an unsupported one, the "Mode Not Supported" message may appear or noise may occur on the screen. Make sure to set the resolution to a supported one.
- 🥒 The input ports for external devices may differ depending on the model and geographical area.

Resolution	Disalari	Horizontal	Vertical Clock frequency	Polarity	Port			
(Dots x lines)	Display format	frequency (KHz)	frequency (Hz)	(MHz)	(horizontal / vertical)	HDMI	DP	USB Type-C/ Thunderbolt 4
640 x 480	60 Hz	31.469	59.940	25.175	- / -	0	0	0
640 x 480	75 Hz	57.500	75.000	31.500	- / -	0	0	0
800 x 600	60 Hz	37.879	60.317	40.000	+ / +	0	0	0
800 x 600	72 Hz	48.077	72.188	50.000	+ / +	0	0	0
800 x 600	75 Hz	46.875	75.000	49.500	+ / +	0	0	0
1024 x 768	60 Hz	48.363	60.004	65.000	- / -	0	0	0
1024 x 768	70 Hz	56.476	70.069	75.000	- / -	0	0	0
1024 x 768	75 Hz	60.023	75.029	78.750	+ / +	0	0	0
1152 x 864	75 Hz	67.500	75.000	108.000	+ / +	0	0	0
1280 x 720	60 Hz	45.000	60.000	74.250	+ / +	0	0	0
1280 x 800	60 Hz	49.702	59.810	83.500	- / +	0	0	0
1280 x 1024	60 Hz	63.981	60.020	108.000	+ / +	0	0	0
1280 x 1024	75 Hz	79.976	75.025	135.000	+ / +	0	0	0
1440 x 900	60 Hz	55.935	59.887	106.500	- / +	0	0	-
1600 x 900	60 Hz	60.000	60.000	108.000	+ / +	0	0	0
1680 x 1050	60 Hz	65.290	59.954	146.250	- / +	0	0	0
1920 x 1080	60 Hz	67.500	60.000	148.500	+ / +	0	0	0

VESA DMT

VESA CVT

Resolution	Horizontal		Vertical Clock freque	Clock frequency	Polarity	Port		
(Dots x lines)	Display format	frequency (KHz)	frequency (Hz)	(MHz)	(horizontal / vertical)	HDMI	DP	USB Type-C/ Thunderbolt 4
1920 x 800	60 Hz	49.279	59.877	102.500	+ / -	0	0	0
**1920 x 800	50 Hz	27.885	49.883	58.000	+ / -	0	0	0
1920 x 540	60 Hz	33.534	59.989	69.750	+ / -	0	0	0
*2560 x 1440	60 Hz	88.787	59.951	241.500	+ / -	0	0	0

*: This input signal is supported only by M7/M8/S9 series.

**: This input signal is supported only by M5 series.

Supported Resolutions for Video Signals

Check the resolutions supported for video signals.

CTA-861

Resolution	Display	HorizontalVerticalClockPolarityfrequencyfrequencyfrequency(horizontal / vertical)(KHz)(Hz)(MHz)vertical)	Vertical	Clock	Polarity	Port		
(Dots x lines)	format		(horizontal / vertical)	HDMI	DP	USB Type-C/ Thunderbolt 4		
720 x 576	50 Hz	31.250	50.000	27.000	- / -	0	0	-
720 x 480	60 Hz	31.469	59.940	27.000	- / -	0	0	-
1280 x 720	50 Hz	37.500	50.000	74.250	+ / +	0	0	-
1280 x 720	60 Hz	45.000	60.000	74.250	+ / +	0	0	0
1920 x 1080	24 Hz	27.000	24.000	74.250	+ / +	0	0	-
1920 x 1080	25 Hz	28.125	25.000	74.250	+ / +	0	0	-
1920 x 1080	30 Hz	33.750	30.000	74.250	+ / +	0	0	-
1920 x 1080	50 Hz	56.250	50.000	148.500	+ / +	0	0	-
1920 x 1080	60 Hz	67.500	60.000	148.500	+ / +	0	0	-
*3840 x 2160	24 Hz	54.000	24.000	297.000	+ / +	0	0	-
*3840 x 2160	25 Hz	56.250	25.000	297.000	+ / +	0	0	-
*3840 x 2160	30 Hz	67.500	30.000	297.000	+ / +	0	0	0
*3840 x 2160	50 Hz	112.500	50.000	594.000	+ / +	0	0	0
*3840 x 2160	60 Hz	135.000	60.000	594.000	+ / +	0	0	0

*: This input signal is supported only by M7/M8/S9 series.

🥒 The input ports for external devices may differ depending on the model and geographical area.

List of graphic cards supporting HDR10

HDR10 is accessible only on Windows 10 systems equipped with graphic cards that support Play Ready 3.0 Digital Rights Management (for protected HDR content). Use graphic cards listed below for HDR10.

- NVIDIA GeForce 1000 series or higher
- AMD Radeon™ RX 400 series or higher
- Intel UHD Graphics 600 series or higher
- 🖉 Graphic cards that support hardware-accelerated 10-bit video decoding for HDR video codecs are recommended.

Specifications

General

Model Name		S27CM50*		S32CM50*			
Size		27 Class (27.0 Inches / 68.6 cm)		32 Class (31.5 Inches / 80.1 cm)			
Display area		597.888 mm (H) x 336.312 mr	m (V)	698.4 mm (H) x 392.85 mm (V)			
Pixel Pitch		0.1038 mm (H) x 0.3114 mm	(V)	0.12125 mm (H) x 0.36375 mm (V)			
Maximum Pixel Frequency		148.5 MHz					
Synchronization Frequency		67.5 Khz					
(PANEL Spec)	Vertical Frequency	60 Hz					
Resolution	Optimum Resolution	1920 x 1080 @ 60 Hz					
Resolution	Maximum Resolution	1920 X 1080 @ 00 HZ					
Model I	Name	S27CM70* / S27CM80*	S32CM70* / S32CM80*		S27C90*		
Size		27 Class (26.9 Inches / 68.4 cm)	32 Class (31.5 Inches / 80.0 cm)		27 Class (26.9 Inches / 68.4 cm)		
Display area		596.736 mm (H) x 335.664 mm (V)	697.306 mm (H) x 392.234 mm (V)		596.736 mm (H) x 335.664 mm (V)		
Pixel Pitch		0.1554 mm (H) x 0.1554 mm (V)	0.18159 mm (H) x 0.18159 mm (V)		0.11655 mm (H) x 0.11655 mm (V)		
Maximum Pixel Frequency		597.08 MHz			940 MHz		
Synchronization	Horizontal Frequency	147.78 ~ 148.38 kHz			30 ~ 180 kHz		
(PANEL Spec)	Vertical Frequency	60 Hz			30 ~ 75 Hz		
Resolution	Optimum Resolution	3840 x 2160 @ 60 Hz			5120 x 2880 @ 60Hz		
RESOLUTION	Maximum Resolution						

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. (Supported models: S27CM50* / S32CM50*) Based on the AC voltage of the adapter. For the DC voltage of the product, refer to the product label. (Supported models: S27CM70* / S32CM70* / S27CM80* / S32CM80* / S27C90*)		
Signal connectors	M5 series : HDMI M7/M8 series : HDMI, USB-C S9 series : Thunderbolt/USB-C, DisplayPort		
	Operating Temperature: 10 °C to 40 °C (50 °F to 104 °F) Humidity: 10 % to 80 %, non-condensing		
Environmental conditions	Storage Temperature: -20 °C to 45 °C (-4 °F to 113 °F) Humidity: 5 % to 95 %, non-condensing		

• Plug-and-Play

This product can be installed and used with any Plug-and-Play compatible systems. Two-way data exchange between the product and PC system optimises the product settings. Product installation takes place automatically. However, you can customise 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 specifications are subject to change without notice to improve quality.
- For detailed device specifications, visit the Samsung website.
- (Europe only)

To access energy labelling information about this product on the European Product Registry for Energy Labelling (EPREL), go to https://eprel.ec.europa.eu/qr/*****

where ****** is the product's EPREL registration number. You can find the registration number on the rating label of your product.

• (Türkiye only)

To access the energy labelling information of the model:

(1) Go to https://www.samsung.com/global/ecodesign_energy

(2) Get the model identifier from the energy label of the product and type it in the search box

(3) Energy labelling information can be found

Appendix

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 is requested to give 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 the customer requests instructions on how to use 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 separately sold product unspecified by Samsung.
- Repair from a person besides an engineer of outsourcing service company or partner of Samsung Electronics Co., Ltd.
- Remodeling or repairing the product by customer.
- Using it with incorrect voltage or non-authorised electrical connections.
- Not following the "cautions" in User Manual.

Others

- If product fails by natural disaster. (lightning, fire, earthquake, flood damage, etc)
- If consumable components are all used up. (Battery, Toner, Fluorescent lights, Head, Vibrator, Lamp, Filter, Ribbon, etc.)
- If customer requests a service in case the product has no defect, service fee may be charged. So please read User Manual first.