

User manual

S19C300B S19C300N S19C300NL S20C300FL S20C300NL S22C300F S22C300H S22C300N S24C300HL

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

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- 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.

Icons used in this manual



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

Cleaning

Cleaning

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

Take the following steps when cleaning.



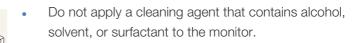
- 1. Power off the monitor and computer.
- 2. Disconnect the power cord from the monitor.



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 spray water or detergent directly on the product.



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



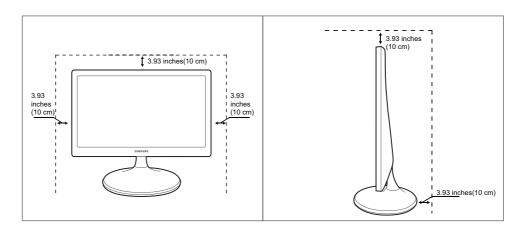
- 5. Connect the power cord to the product after cleaning the product.
- 6. Power on the monitor and computer.

Securing the Installation Space

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



The exterior may differ depending on the product.



Precautions for storage



Be sure to contact Samsung Customer Service Center (page 144) if the inside of the monitor needs cleaning. (Service fee will be charged.)

Safety Precautions

Caution

RISK OF ELECTRIC SHOCK DO NOT OPEN

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



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



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

Symbols for safety precautions

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

Electricity and Safety



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



Warning



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

An electric shock or fire may result.



Do not plug many products into the same power socket.

Otherwise, the socket may overheat and cause a fire.



Do not touch the power plug with wet hands.

• Otherwise, an electric shock may result.



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

An unstable connection may cause a fire.



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

An electric shock or injury may result.



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

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



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

An electric shock or fire may result.



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

Otherwise, a fire may result.





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

• The product may become damaged by an electric shock.



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

An electric shock or fire may result.



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

If any problem occurs in the product, unplug the power cable to completely cut the power to the product.

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



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

An electric shock or fire may result.

Installation and Safety



Warning



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

Otherwise, a fire may result.



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

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



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

Children may suffocate.



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

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



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

An electric shock or fire may result.



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

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



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

The product may fall and injure children.



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





Take care not to drop the product when moving it.

Otherwise, product failure or personal injury may result.



Do not set down the product on its front.

The screen may become damaged.



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

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



Put down the product carefully.

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



Installing the product in an unusual place (a place exposed to a lot of fine particles, chemical substances or extreme temperatures, or an airport or train station where the product should operate continuously for an extended period of time) may seriously affect its performance.

 Be sure to consult Samsung Customer Service Center (page 144) before installation if you want to install the product at such a place.

Operation





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

- An electric shock or fire may result.
- Contact Samsung Customer Service Center (page 144) for repair.



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

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



If the product generates a strange noise, a burning smell, or smoke, remove the power cord immediately and contact Samsung Customer Service Center (page 144).

An electric shock or fire may result.



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

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



If the product falls or the exterior is damaged, power off the product, remove the power cord, and contact Samsung Customer Service Center (page 144).

Otherwise, an electric shock or fire may result.



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

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



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

An electric shock or fire may result.



Do not drop objects on the product or apply impact.

An electric shock or fire may result.



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

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



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

Sparks can cause an explosion or fire.



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

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



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

An explosion or fire may result.



Ensure the vents are not blocked by tablecloths or curtains.

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



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

- If water or any foreign substance enters the product, be sure to power off the product, remove the power cord, and contact Samsung Customer Service Center (page 144).
- Product failure, an electric shock or fire may result.



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

- If water or any foreign substance enters the product, be sure to power off the product, remove the power cord, and contact Samsung Customer Service Center (page 144).
- Product failure, an electric shock or fire may result.





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

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



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

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



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.



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



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

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



Do not use humidifiers or stoves around the product.

An electric shock or fire may result.



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

Eye fatigue will be relieved.



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



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



Exercise caution when adjusting the product angle or stand height.

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



Do not place heavy objects on the product.

Product failure or personal injure may result.

Correct posture to use the product



Use the product in the correct posture as follows:

- Straighten your back.
- Allow a distance of 45 to 50 cm between your eye and the screen, and look slightly downward at the screen.
 - Keep your eyes directly in front of the screen.
- Adjust the angle so light does not reflect on the screen.
- Keep your forearms perpendicular to your upper arms and level with the back of your hands.
- Keep your elbows at about a right angle.
- Adjust the height of the product so you can keep your knees bent at 90 degrees or more, your heels attached to the floor, and your arms lower than your heart.

1

Preparations

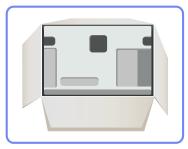
1.1 Checking the Contents

1.1.1 Removing the Packaging

1 Open the packaging box. Be careful not to damage the product when you open the packaging with a sharp instrument.



2 Remove the styrofoam from the product.



- 3 Check the components and remove the styrofoam and plastic bag.
 - This image is for reference only.



4 Store the box in a dry area so that it can be used when moving the product in the future.

1.1.2 Checking the Components



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

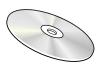
Components



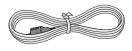
Quick setup guide



Warranty card (Not available in some locations)



User manual



Power cable



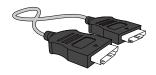
DC power adapter



D-SUB cable (optional)



DVI cable (optional)



HDMI cable (optional)



HDMI-DVI cable (optional)



Stand base



Stand neck (Other areas)



Stand neck
(North America only)



Components may vary depending on the country.

1.2 Parts

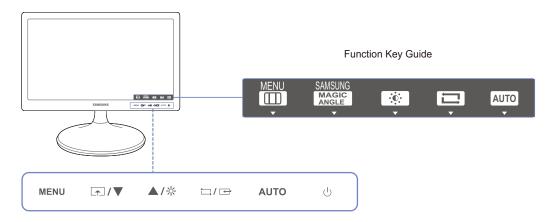
1.2.1 Frontal Button



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

Specifications are subject to change without notice to improve quality.

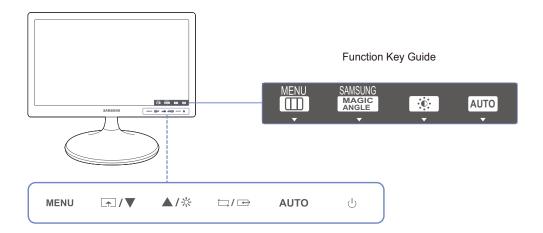
S19C300B / S19C300F/ S20C300BL / S20C300FL / S22C300B / S22C300F



Icons	Description
MENU	 Open or close the onscreen display (OSD) menu, or return to the parent menu. OSD control lock: Maintain the current settings, or lock the OSD control to prevent unintended changes to settings. Enable: To lock the OSD control, press and hold the [MENU] button for 10 seconds. Disable: To unlock the OSD control, press and hold the [MENU] button for more than 10 seconds. If the OSD control is locked, Brightness, Contrast and MAGICAngle can be adjusted, and INFORMATION can be viewed. The Customized Key function can be used by pressing the [1] button. (The Customized Key is available even when the OSD control is locked.)
1	Configure Customized Key and press [♠]. The following options will be enabled. SAMSUNG Angle - SAMSUNG Bright - Eco Saving - Image Size To configure Customized Key, go to SETUP & RESET → Customized Key and select the mode you want.

Icons	Description
▲/▼	Move to the upper or lower menu or adjust the value for an option on the OSD menu.
'	Use this button to control the brightness and contrast of the screen.
≒/∉	Confirm a menu selection. Pressing the [☐/៤] button when the OSD menu is not displayed will change the input source (Analog/DVI). If you power on the product or change the input source by pressing the [☐/៤] button, a message that shows the changed input source will appear at the top left corner of the screen.
AUTO	Press the [AUTO] button to automatically adjust the screen settings. Changing the resolution in Display Properties will activate the Auto Adjustment function. Available only in Analog mode.
Ф	Turn the screen on or off.
Function Key Guide	When a control button on the product is pressed, the Function Key Guide will be displayed before the onscreen menu opens. (The guide shows the function of the button pressed.) To access the onscreen menu when the guide is displayed, press the corresponding button again. The Function Key Guide may vary depending on the function or product model. Refer to the actual product.

S19C300N / S20C300NL / S22C300N



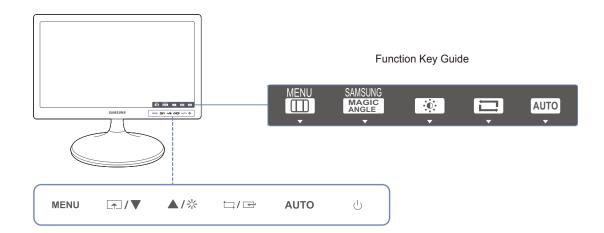
Icons	Description
	Open or close the onscreen display (OSD) menu, or return to the parent menu.
	OSD control lock: Maintain the current settings, or lock the OSD control to prevent unintended changes to settings.
	 Enable: To lock the OSD control, press and hold the [MENU] button for 10 seconds.
MENU	Disable: To unlock the OSD control, press and hold the [MENU] button for more than 10 seconds.
	If the OSD control is locked,
	 Brightness, Contrast and MAGICAngle can be adjusted, and INFORMATION can be viewed.
	 The Customized Key function can be used by pressing the [] button. (The Customized Key is available even when the OSD control is locked.)
	Configure Customized Key and press []. The following options will be enabled.
lack	SAMSUNG Angle - SAMSUNG Bright - Eco Saving - Image Size
	To configure Customized Key, go to SETUP & RESET → Customized Key and select the mode you want.
▲/▼	Move to the upper or lower menu or adjust the value for an option on the OSD menu.
' ‡	Use this button to control the brightness and contrast of the screen.
□/광	Confirm a menu selection.

1

Preparations

Icons	Description
AUTO	Press the [AUTO] button to automatically adjust the screen settings. Changing the resolution in Display Properties will activate the Auto Adjustment function.
Ф	Turn the screen on or off.
	When a control button on the product is pressed, the Function Key Guide will be displayed before the onscreen menu opens. (The guide shows the function of the button pressed.)
Function Key Guide	To access the onscreen menu when the guide is displayed, press the corresponding button again.
	The Function Key Guide may vary depending on the function or product model.
	Refer to the actual product.

S22C300H / S24C300HL



Icons	Description
MENU	Open or close the onscreen display (OSD) menu, or return to the parent menu.
	OSD control lock: Maintain the current settings, or lock the OSD control to prevent unintended changes to settings.
	 Enable: To lock the OSD control, press and hold the [MENU] button for 10 seconds.
	Disable: To unlock the OSD control, press and hold the [MENU] button for more than 10 seconds.
	If the OSD control is locked,
	Brightness, Contrast and MAGICAngle can be adjusted, and INFORMATION can be viewed.
	 The Customized Key function can be used by pressing the [] button. (The Customized Key is available even when the OSD control is locked.)
	Configure Customized Key and press []. The following options will be enabled.
1	SAMSUNG Angle - SAMSUNG Bright - Eco Saving - Image Size
	To configure Customized Key, go to SETUP & RESET → Customized Key and select the mode you want.
▲/▼	Move to the upper or lower menu or adjust the value for an option on the OSD menu.
*	Use this button to control the brightness and contrast of the screen.

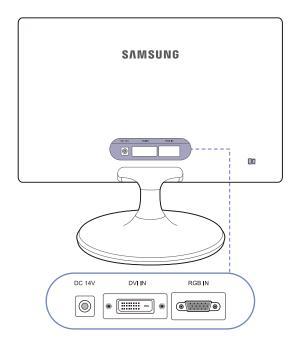
Icons	Description
	Confirm a menu selection.
다/댐	Pressing the [☐/[] button when the OSD menu is not displayed will change the input source (Analog/HDMI). If you power on the product or change the input source by pressing the [☐/[] button, a message that shows the changed input source will appear at the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

1.2.2 Reverse Side



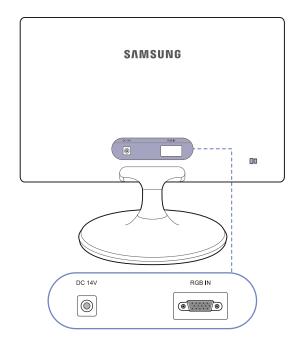
- The color and shape of parts may differ from what is shown.
 Specifications are subject to change without notice to improve quality.
- Provided ports may vary depending on the product.

S19C300B / S19C300F/ S20C300BL / S20C300FL / S22C300B / S22C300F



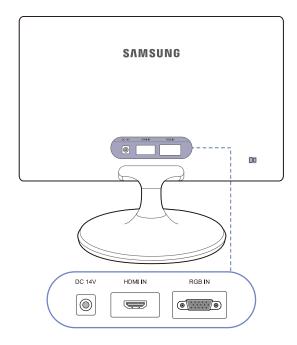
Port	Description
DC 14V	Connects to the DC power adapter.
DVI IN	Connects to a source device via a DVI cable.
RGB IN	Connect to a PC using the D-SUB cable.

S19C300N / S20C300NL / S22C300N



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

S22C300H / S24C300HL



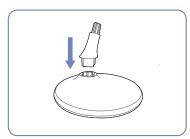
Port	Description
DC 14V	Connects to the DC power adapter.
HDMI IN	Connects to a source device via a HDMI cable.
RGB IN	Connect to a PC using the D-SUB cable.

1.3 Installation

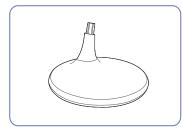
1.3.1 Attaching the Stand



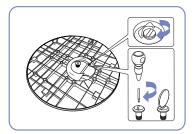
Before assembling the product, place the product down on a flat and stable surface so that the screen is facing downwards.



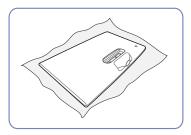
Insert the stand neck into the stand base in the direction shown in the figure.



Check that the stand neck is firmly connected.



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



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



product with your hand as shown by the figure.

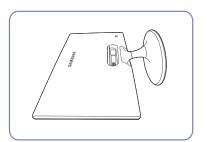
Push the assembled stand into the main body in the direction of the arrow as shown in the figure.



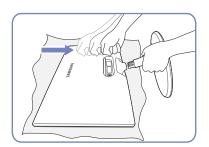
- Caution

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

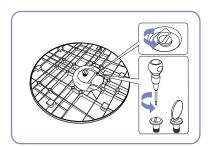
1.3.2 Removing the Stand



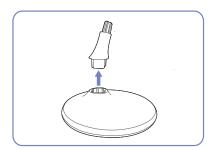
Place a soft cloth over the table to protect the product and place the product onto the cloth so that the front of the product faces downwards.



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

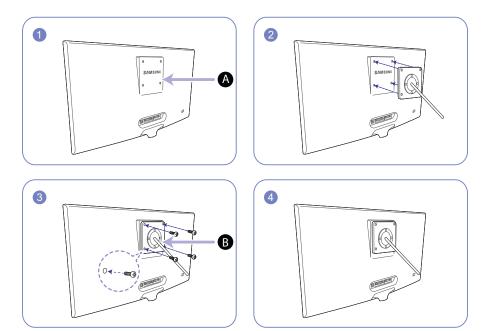


Turn the connecting screw at the bottom of the stand base to separate it.



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

1.3.3 Installing a Wall-mount Kit or Desktop Stand (S19C300F / S20C300FL / S22C300F)



- A Attach the wall-mount kit or desktop stand here
- B Bracket (sold separately)

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



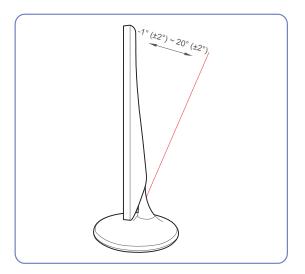
Notes

- 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 10cm or farther away from the wall.
- Be sure to use a wall-mount kit that complies with the standards.
- To install the monitor using a wall mount, disconnect the stand base from the monitor.

1.3.4 Adjusting the Product Tilt



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

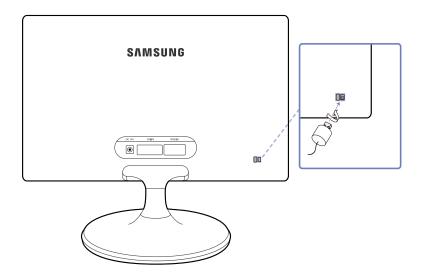


- You can adjust the tilt of your monitor.
- Hold the lower part of the product and adjust the tilt carefully.

Preparations

1.3.5 Anti-theft Lock

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



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

To lock an anti-theft locking device:

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



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

2.1 Before Connecting



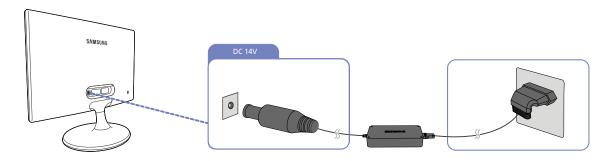
2.1.1 Pre-connection Checkpoints

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

2.2 Connecting the Power

Connect the power adapter to [DC 14V] jack on the rear of the product.

Connect the power cable to the DC power adapter. Next, connect the DC power adapter to the product. Plug in the power cable to the power socket.



B

The input voltage is switched automatically.

2.3 Connecting and Using a PC

Select a connection method suitable for your PC.



Connecting parts may differ in different products.

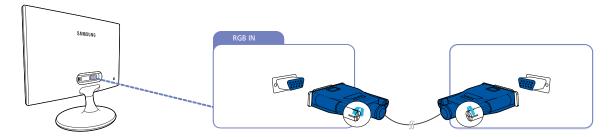
2.3.1 Connection Using the D-SUB Cable (Analogue Type)

K

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

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

S19C300B / S19C300F/ S20C300BL / S20C300FL / S22C300B / S22C300F / S22C300H / S24C300HL

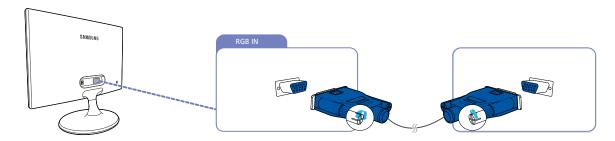


- 1 Connect the D-SUB cable to the [RGB IN] port on the back of the product and the RGB port on the PC.
- 2 Connect the DC power adapter to the product and a power socket.
 Next, turn on the power switch on the PC. (For details, refer to "2.2 Connecting the Power".)
- 3 Press [□/⊡] to change the input source to Analog.



Provided ports may vary depending on the product.

S19C300N / S20C300NL / S22C300N



- 1 Connect the D-SUB cable to the [RGB IN] port on the back of the product and the RGB 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. (For details, refer to "2.2 Connecting the Power".)

2

Connecting and Using a Source Device



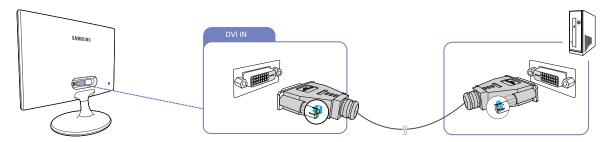
Provided ports may vary depending on the product.

2.3.2 Connection Using the DVI Cable (S19C300B / S19C300F/ S20C300BL / S20C300FL / S22C300B / S22C300F)



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

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



- 1 Connect the DVI cable to the [DVI IN] port on the back of the product and the DVI port on the PC.
- 2 Connect the DC power adapter to the product and a power socket.
 Next, turn on the power switch on the PC. (For details, refer to "2.2 Connecting the Power".)
- 3 Press [☐/☐] to change the input source to DVI.
- B

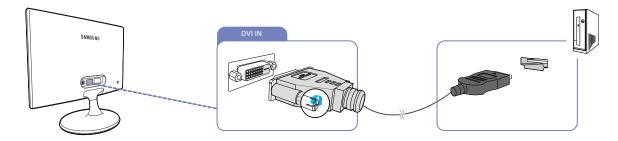
Provided ports may vary depending on the product.

2.3.3 Connection Using an DVI-HDMI Cable (S19C300B / S19C300F/ S20C300BL / S20C300FL / S22C300B / S22C300F)



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

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



- 1 Connect the HDMI-DVI cable to the [DVI IN] port on the back of the product and the HDMI port on the PC.
- 2 Connect the DC power adapter to the product and a power socket.
 Next, turn on the power switch on the PC. (For details, refer to "2.2 Connecting the Power".)
- 3 Press [□/□] to change the input source to DVI.
- _R

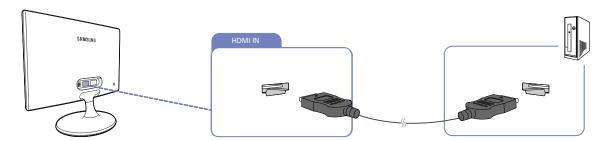
Provided ports may vary depending on the product.

2.3.4 Connection Using the HDMI Cable (S22C300H / S24C300HL)



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

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



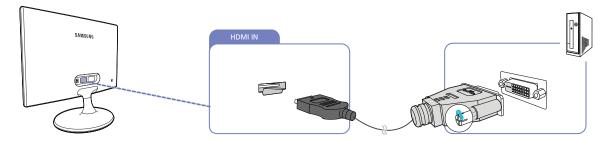
- 1 Connect the HDMI cable to the [HDMI IN] port on the back of the product and the HDMI port on the PC.
- 2 Connect the DC power adapter to the product and a power socket.
 Next, turn on the power switch on the PC. (For details, refer to "2.2 Connecting the Power".)
- 3 Press [□/□] to change the input source to HDMI.
- Provided ports may vary depending on the product.

2.3.5 Connection Using an HDMI-DVI Cable (S22C300H / S24C300HL)



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

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

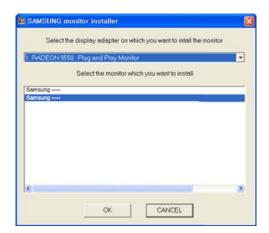


- 1 Connect the HDMI-DVI cable to the [HDMI IN] port on the back of the product and the DVI port on the PC.
- 2 Connect the DC power adapter to the product and a power socket.
 Next, turn on the power switch on the PC. (For details, refer to "2.2 Connecting the Power".)
- 3 Press [□/⊡] to change the input source to HDMI.
- Provided ports may vary depending on the product.

2.3.6 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.



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

2.3.7 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 Press [▲/▼] to move to the language you want and press [□/⊡].
- 2 To hide the information message, press [MENU].



- 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.

2.3.8 Changing the Resolution Using a PC



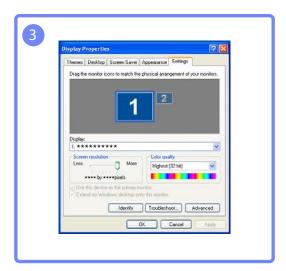
- Adjust the resolution and refresh rate in Control Panel on your PC to obtain optimum picture quality.
- The picture quality of TFT-LCDs may degrade if the optimum resolution is not selected.

Changing the Resolution on Windows XP

Go to **Control Panel** \rightarrow **Display** \rightarrow **Settings** and change the resolution.







2

Connecting and Using a Source Device

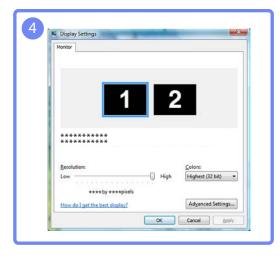
Changing the Resolution on Windows Vista

Go to Control Panel \rightarrow Personalization \rightarrow Display Settings and change the resolution.









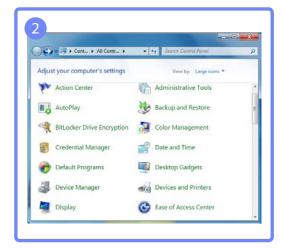
2

Connecting and Using a Source Device

Changing the Resolution on Windows 7

Go to Control Panel \rightarrow Display \rightarrow Screen Resolution and change the resolution.









Changing the Resolution on Windows 8

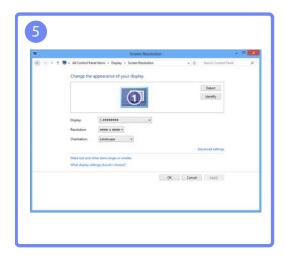
Go to Settings \rightarrow Control Panel \rightarrow Display \rightarrow Screen Resolution and change the resolution.











3

Screen Setup (S19C300B / S19C300F/ S20C300BL / S20C300FL / S22C300B / S22C300F)

Configure the screen settings such as brightness.

3.1 Brightness

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

A higher value will make the picture appear brighter.



- This menu is not available when SAMSUNGBright is set to Dynamic Contrast mode.
- This menu is not available when **Eco Saving** is enabled.

3.1.1 Configuring Brightness

1 Press any button on the front of the product to display the Function Key Guide.

- 2 Press [▲/▼] to move to PICTURE and press [☐/☐] on the product.
- 3 Press [▲/▼] to move to Brightness and press [□/☑] on the product.
 The following screen will appear.



- 4 Adjust the Brightness using the [▲/▼] buttons.
- 5 The selected option will be applied.

3.2 Contrast

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

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



This option is not available when MAGIC Bright is in Cinema or Dynamic Contrast mode.

3.2.1 Configuring Contrast

Press any button on the front of the product to display the Function Key Guide.

Next, press [MENU] to display the corresponding menu screen.

- Press [▲/▼] to move to PICTURE and press [□/□] on the product.
- 3 Press [▲/▼] to move to Contrast and press [□/☞] on the product.

 The following screen will appear.



- 4 Adjust the Contrast using the [▲/▼] buttons.
- 5 The selected option will be applied.

3.3 Sharpness

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

A higher value will make the outline of objects clearer.



- This option is not available when MAGICBright is in Cinema or Dynamic Contrast mode.
- This menu is not available when
 ^{SAMSUNG}
 Upscale is in Mode1 or Mode2.

3.3.1 Configuring Sharpness

1 Press any button on the front of the product to display the Function Key Guide.

- 2 Press [▲/▼] to move to PICTURE and press [☐/☐] on the product.
- 3 Press [▲/▼] to move to Sharpness and press [□/☞] on the product.
 The following screen will appear.



- 4 Adjust the **Sharpness** using the [▲/▼] buttons.
- 5 The selected option will be applied.

3.4 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 MAGICAngle is enabled.

You can customize the brightness to suit your preferences.

3.4.1 Configuring SAMSUNG MAGIC Bright

- Press any button on the front of the product to display the Function Key Guide.
 Next, press [MENU] to display the corresponding menu screen.
- Press [▲/▼] to move to PICTURE and press [□/곱] on the product.
- 3 Press [▲/▼] to move to MAGICBright and press [□/⊡] on the product.
 The following screen will appear.



- Custom: Customize the contrast and brightness as required.
- Standard: Obtain a picture quality suitable for editing documents or using Internet.
- Game: Obtain a picture quality suitable for playing games that involve many graphic effects and dynamic movements.
- Cinema: Obtain the brightness and sharpness of TVs suitable for enjoying video and DVD content.
- Dynamic Contrast: Obtain balanced brightness through automatic contrast adjustment.
- 4 Press [▲/▼] to move to the option you want and press [□/⊡].
- 5 The selected option will be applied.

3.5 SAMSUNG MAGIC Angle

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



This option is not available when MAGICBright is in Cinema or Dynamic Contrast mode.

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

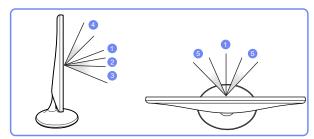
3.5.1 Configuring SAMSUNG MAGIC Angle

- Press any button on the front of the product to display the Function Key Guide.

 Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to PICTURE and press [☐/⊡] on the product.
- 3 Press [▲/▼] to move to MAGICAngle and press [□/⊡] on the product.

 The following screen will appear.





- Off ①: Select this option to view directly in front of the product.
- Lean Back Mode 1 2: Select this option to view from a place slightly lower than the product.
- Lean Back Mode 2 3: Select this option to view from a place lower than Lean Back Mode 1.
- Standing Mode 4: Select this option to view from a place higher than the product.
- Side Mode (5): Select this option to view from either side of the product.
- Group View: Select this option for more than one viewer to view from places ①, ④ and ⑤.
- Custom: Lean Back Mode 1 will be applied by default if Custom is selected.
- 4 Press [▲/▼] to move to the option you want and press [□/□].
- 5 The selected option will be applied.

3.6 SAMSUNG MAGIC Upscale

SAMSUNGUpscale function can enhance the layers of the picture details and the vividness of the picture.



- The function has more obvious effects on low-resolution pictures.
- This menu is not available when MAGICBright is in Cinema or Dynamic Contrast mode.

3.6.1 Configuring SAMSUNG MAGIC Upscale

Press any button on the front of the product to display the Function Key Guide.

Next, press [MENU] to display the corresponding menu screen.

- Press [▲/▼] to move to PICTURE and press [□/⊡] on the product.
- 3 Press [▲/▼] to move to MAGICUpscale and press [□/⊡] on the product.

 The following screen will appear.



Comparing with Mode1, Mode2 has a stronger effect.

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

3.7 Image Size

Change the picture size.

3.7.1 Changing the Image Size

- 1 Press any button on the front of the product to display the Function Key Guide.
 - Next, press [MENU] to display the corresponding menu screen.
- Press [▲/▼] to move to PICTURE and press [□/□] on the product.
- 3 Press [▲/▼] to move to Image Size and press [□/◄] on the product.
 The following screen will appear.





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

In AV mode



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



- Changing the screen size is available when the following conditions are satisfied.
- The function may not be supported depending on the ports provided with the product.
 - A digital output device is connected using the DVI cable.

3

Screen Setup (S19C300B / S19C300F/ S20C300BL / S20C300FL / S22C300B / S22C300F)

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

3.8 H-Position & V-Position

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

V-Position: Move the screen up or down.



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

3.8.1 Configuring H-Position & V-Position

Press any button on the front of the product to display the Function Key Guide.

- Press [▲/▼] to move to PICTURE and press [☐/☐] on the product.
- 3 Press [▲/▼] to move to H-Position or V-Position, and press [□/-].
 The following screen will appear.





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

3.9 Coarse

Adjust the screen frequency.



This menu is available in **Analog** mode only.

3.9.1 Adjusting Coarse

1 Press any button on the front of the product to display the Function Key Guide.

- Press [▲/▼] to move to PICTURE and press [☐/☐] on the product.
- 3 Press [▲/▼] to move to Coarse and press [□/⊡] on the product.
 The following screen will appear.



- 4 Adjust the Coarse using the [▲/▼] buttons.
- 5 The selected option will be applied.

3.10 Fine

Fine-adjust the screen to obtain a vivid picture.



This menu is available in **Analog** mode only.

3.10.1 Adjusting Fine

- 1 Press any button on the front of the product to display the Function Key Guide.
 - Next, press $[\mbox{MENU}]$ to display the corresponding menu screen.
- Press [▲/▼] to move to PICTURE and press [☐/☐] on the product.
- 3 Press [▲/▼] to move to Fine and press [□/◄] on the product.
 The following screen will appear.



- 4 Adjust the Fine using the [▲/▼] buttons.
- 5 The selected option will be applied.

Configure the screen settings such as brightness.

4.1 Brightness

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

A higher value will make the picture appear brighter.



- This menu is not available when MAGICBright is set to Dynamic Contrast mode.
- This menu is not available when **Eco Saving** is enabled.

4.1.1 Configuring Brightness

1 Press any button on the front of the product to display the Function Key Guide.

- 2 Press [▲/▼] to move to PICTURE and press [□/⊡] on the product.
- 3 Press [▲/▼] to move to Brightness and press [□/⊡] on the product.
 The following screen will appear.



- 4 Adjust the **Brightness** using the [▲/▼] buttons.
- 5 The selected option will be applied.

4.2 Contrast

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

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



This option is not available when MAGIC Bright is in Cinema or Dynamic Contrast mode.

4.2.1 Configuring Contrast

Press any button on the front of the product to display the Function Key Guide.
Next, press [MENU] to display the corresponding menu screen.

- Press [▲/▼] to move to PICTURE and press [□/□] on the product.
- 3 Press [▲/▼] to move to Contrast and press [□/⊡] on the product.

 The following screen will appear.



- 4 Adjust the Contrast using the [▲/▼] buttons.
- 5 The selected option will be applied.

4.3 Sharpness

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

A higher value will make the outline of objects clearer.



- This option is not available when MAGICBright is in Cinema or Dynamic Contrast mode.
- This menu is not available when
 ^{SAMSUNG}
 Upscale is in Mode1 or Mode2.

4.3.1 Configuring Sharpness

1 Press any button on the front of the product to display the Function Key Guide.

- 2 Press [▲/▼] to move to PICTURE and press [☐/☐] on the product.
- 3 Press [▲/▼] to move to Sharpness and press [□/☞] on the product.
 The following screen will appear.



- 4 Adjust the **Sharpness** using the [▲/▼] buttons.
- 5 The selected option will be applied.

4.4 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 MAGICAngle is enabled.

You can customize the brightness to suit your preferences.

4.4.1 Configuring SAMSUNG MAGIC Bright

- 1 Press any button on the front of the product to display the Function Key Guide.
 - Next, press $\left[\mbox{MENU} \right]$ to display the corresponding menu screen.
- Press [▲/▼] to move to PICTURE and press [☐/☐] on the product.
- 3 Press [▲/▼] to move to MAGICBright and press [□/□] on the product.
 The following screen will appear.



- Custom: Customize the contrast and brightness as required.
- Standard: Obtain a picture quality suitable for editing documents or using Internet.
- Game: Obtain a picture quality suitable for playing games that involve many graphic effects and dynamic movements.
- Cinema: Obtain the brightness and sharpness of TVs suitable for enjoying video and DVD content.
- Dynamic Contrast: Obtain balanced brightness through automatic contrast adjustment.
- 4 Press [▲/▼] to move to the option you want and press [□/⊡].
- 5 The selected option will be applied.

4.5 SAMSUNG MAGIC Angle

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



This option is not available when MAGICBright is in Cinema or Dynamic Contrast mode.

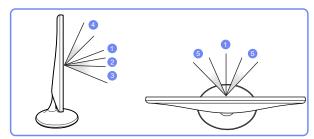
This feature provides the viewing angle, brightness, and tint to suit your preferences.

4.5.1 Configuring SAMSUNG MAGIC Angle

- 1 Press any button on the front of the product to display the Function Key Guide.

 Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to PICTURE and press [☐/⊡] on the product.
- 3 Press [▲/▼] to move to MAGICAngle and press [□/⊡] on the product.
 The following screen will appear.





- Off ①: Select this option to view directly in front of the product.
- Lean Back Mode 1 2: Select this option to view from a place slightly lower than the product.
- Lean Back Mode 2 3: Select this option to view from a place lower than Lean Back Mode 1.
- Standing Mode 4: Select this option to view from a place higher than the product.
- Side Mode (5): Select this option to view from either side of the product.
- Group View: Select this option for more than one viewer to view from places ①, ④ and ⑤.
- Custom: Lean Back Mode 1 will be applied by default if Custom is selected.
- Press [▲/▼] to move to the option you want and press [□/□].
- 5 The selected option will be applied.

4.6 SAMSUNG MAGIC Upscale

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



- The function has more obvious effects on low-resolution pictures.
- This menu is not available when MAGICBright is in Cinema or Dynamic Contrast mode.

4.6.1 Configuring SAMSUNG MAGIC Upscale

1 Press any button on the front of the product to display the Function Key Guide.

Next, press [MENU] to display the corresponding menu screen.

- 2 Press [▲/▼] to move to PICTURE and press [□/급] on the product.
- 3 Press [▲/▼] to move to MAGICUpscale and press [□/⊡] on the product.

 The following screen will appear.



Comparing with Mode1, Mode2 has a stronger effect.

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

4.7 Image Size

Change the picture size.

4.7.1 Changing the Image Size

1 Press any button on the front of the product to display the Function Key Guide.

- Press [▲/▼] to move to PICTURE and press [□/□] on the product.
- 3 Press [▲/▼] to move to Image Size and press [□/◄] on the product.
 The following screen will appear.



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

4.8 H-Position & V-Position

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

V-Position: Move the screen up or down.



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

4.8.1 Configuring H-Position & V-Position

Press any button on the front of the product to display the Function Key Guide.

- 2 Press [▲/▼] to move to PICTURE and press [☐/☐] on the product.
- 3 Press [▲/▼] to move to H-Position or V-Position, and press [□/-].
 The following screen will appear.





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

4.9 Coarse

Adjust the screen frequency.



This menu is available in **Analog** mode only.

4.9.1 Adjusting Coarse

1 Press any button on the front of the product to display the Function Key Guide.

- Press [▲/▼] to move to **PICTURE** and press [□/급] on the product.
- 3 Press [▲/▼] to move to Coarse and press [□/⊡] on the product.
 The following screen will appear.



- 4 Adjust the Coarse using the [▲/▼] buttons.
- 5 The selected option will be applied.

4.10 Fine

Fine-adjust the screen to obtain a vivid picture.



This menu is available in **Analog** mode only.

4.10.1 Adjusting Fine

- 1 Press any button on the front of the product to display the Function Key Guide.
 - Next, press [MENU] to display the corresponding menu screen.
- Press [▲/▼] to move to **PICTURE** and press [□/급] on the product.
- 3 Press [▲/▼] to move to Fine and press [□/◄] on the product.
 The following screen will appear.



- 4 Adjust the Fine using the [▲/▼] buttons.
- 5 The selected option will be applied.

Screen Setup (S22C300H / S24C300HL)

Configure the screen settings such as brightness.

5.1 Brightness

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

A higher value will make the picture appear brighter.



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

5.1.1 Configuring Brightness

1 Press any button on the front of the product to display the Function Key Guide.

- Press [▲/▼] to move to PICTURE and press [□/⊡] on the product.
- 3 Press [▲/▼] to move to Brightness and press [□/⊡] on the product.
 The following screen will appear.



- 4 Adjust the Brightness using the [▲/▼] buttons.
- 5 The selected option will be applied.

Screen Setup (S22C300H / S24C300HL)

5.2 Contrast

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

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



This option is not available when MAGIC Bright is in Cinema or Dynamic Contrast mode.

5.2.1 Configuring Contrast

Press any button on the front of the product to display the Function Key Guide.

Next, press [MENU] to display the corresponding menu screen.

- Press [▲/▼] to move to PICTURE and press [□/□] on the product.
- 3 Press [▲/▼] to move to Contrast and press [□/⊡] on the product.

 The following screen will appear.



- 4 Adjust the Contrast using the [▲/▼] buttons.
- 5 The selected option will be applied.

Screen Setup (S22C300H / S24C300HL)

5.3 Sharpness

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

A higher value will make the outline of objects clearer.



- This option is not available when MAGICBright is in Cinema or Dynamic Contrast mode.
- This menu is not available when
 ^{SAMSUNG}
 Upscale is in Mode1 or Mode2.

5.3.1 Configuring Sharpness

1 Press any button on the front of the product to display the Function Key Guide.

- 2 Press [▲/▼] to move to PICTURE and press [☐/☐] on the product.
- 3 Press [▲/▼] to move to Sharpness and press [□/◄] on the product.
 The following screen will appear.



- 4 Adjust the **Sharpness** using the [▲/▼] buttons.
- 5 The selected option will be applied.

5.4 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 MAGICAngle is enabled.

You can customize the brightness to suit your preferences.

5.4.1 Configuring SAMSUNG MAGIC Bright

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



- Custom: Customize the contrast and brightness as required.
- Standard: Obtain a picture quality suitable for editing documents or using Internet.
- Game: Obtain a picture quality suitable for playing games that involve many graphic effects and dynamic movements.
- Cinema: Obtain the brightness and sharpness of TVs suitable for enjoying video and DVD content.
- Dynamic Contrast: Obtain balanced brightness through automatic contrast adjustment.



When the external input is connected through HDMI and PC/AV Mode is set to AV, 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 Press [▲/▼] to move to the option you want and press [□/⊡].
- 5 The selected option will be applied.

5.5 SAMSUNG MAGIC Angle

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



This option is not available when MAGICBright is in Cinema or Dynamic Contrast mode.

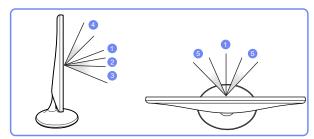
This feature provides the viewing angle, brightness, and tint to suit your preferences.

5.5.1 Configuring SAMSUNG MAGIC Angle

- 1 Press any button on the front of the product to display the Function Key Guide.

 Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to PICTURE and press [☐/⊡] on the product.
- 3 Press [▲/▼] to move to MAGICAngle and press [□/⊡] on the product.
 The following screen will appear.





- Off ①: Select this option to view directly in front of the product.
- Lean Back Mode 1 2: Select this option to view from a place slightly lower than the product.
- Lean Back Mode 2 3: Select this option to view from a place lower than Lean Back Mode 1.
- Standing Mode 4: Select this option to view from a place higher than the product.
- Side Mode (5): Select this option to view from either side of the product.
- Group View: Select this option for more than one viewer to view from places ①, ④ and ⑤.
- Custom: Lean Back Mode 1 will be applied by default if Custom is selected.
- Press [▲/▼] to move to the option you want and press [□/□].
- 5 The selected option will be applied.

5.6 SAMSUNG MAGIC Upscale

SAMSUNGUpscale function can enhance the layers of the picture details and the vividness of the picture.



- The function has more obvious effects on low-resolution pictures.
- This menu is not available when MAGICBright is in Cinema or Dynamic Contrast mode.

5.6.1 Configuring SAMSUNG MAGIC Upscale

1 Press any button on the front of the product to display the Function Key Guide.

Next, press [MENU] to display the corresponding menu screen.

- 2 Press [▲/▼] to move to PICTURE and press [☐/⊡] on the product.
- 3 Press [▲/▼] to move to MAGICUpscale and press [□/⊡] on the product.

 The following screen will appear.



Comparing with Mode1, Mode2 has a stronger effect.

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

5.7 Image Size

Change the picture size.

5.7.1 Changing the Image Size

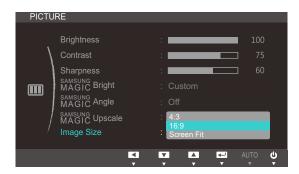
- 1 Press any button on the front of the product to display the Function Key Guide.
 - Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to PICTURE and press [□/□] on the product.
- 3 Press [▲/▼] to move to Image Size and press [□/◄] on the product.
 The following screen will appear.





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

In AV mode



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



- Changing the screen size is available when the following conditions are satisfied.
- The function may not be supported depending on the ports provided with the product.
 - A digital output device is connected using the HDMI 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 and PC/AV Mode is set to AV.
- 4 Press [▲/▼] to move to the option you want and press [□/⊡].
- 5 The selected option will be applied.

5.8 HDMI Black Level

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



This function is only available in **HDMI** mode.

5.8.1 Configuring the HDMI Black Level Settings

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



- Normal: Select this mode when there is no contrast ratio degradation.
- Low: Select this mode to reduce the black level and increase the white level when there is a contrast ratio degradation.
- 4 Press [▲/▼] to move to the option you want and press [□/□].
- 5 The selected option will be applied.
- _K

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

5.9 H-Position & V-Position

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

V-Position: Move the screen up or down.



- This menu is available in **Analog** mode only.
- This menu is only available when Image Size is set to Screen Fit in AV Mode. When a 480P or 576P or 720P or 1080P signal is input in AV mode and the monitor can display normally, select Screen Fit to adjust horizontal position in 0-6 levels.

5.9.1 Configuring H-Position & V-Position

Press any button on the front of the product to display the Function Key Guide.

Next, press [MENU] to display the corresponding menu screen.

- 2 Press [▲/▼] to move to PICTURE and press [☐/☐] on the product.
- 3 Press [▲/▼] to move to H-Position or V-Position, and press [□/-].
 The following screen will appear.





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

5.10 Coarse

Adjust the screen frequency.



This menu is available in **Analog** mode only.

5.10.1 Adjusting Coarse

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



- 4 Adjust the Coarse using the [▲/▼] buttons.
- 5 The selected option will be applied.

5.11 Fine

Fine-adjust the screen to obtain a vivid picture.



This menu is available in **Analog** mode only.

5.11.1 Adjusting Fine

- 1 Press any button on the front of the product to display the Function Key Guide.
 - Next, press [MENU] to display the corresponding menu screen.
- Press [▲/▼] to move to **PICTURE** and press [□/급] on the product.
- 3 Press [▲/▼] to move to Fine and press [□/◄] on the product.
 The following screen will appear.



- 4 Adjust the Fine using the [▲/▼] buttons.
- 5 The selected option will be applied.

Adjust the tint of the screen. This menu is not available when MAGICBright is set to Cinema or Dynamic Contrast mode.

6.1 Red

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

A higher value will increase the intensity of the color.

6.1.1 Configuring Red

1 Press any button on the front of the product to display the Function Key Guide.

Next, press [MENU] to display the corresponding menu screen.

- Press [▲/▼] to move to COLOR and press [□/□] on the product.
- 3 Press [▲/▼] to move to Red and press [□/□] on the product.
 The following screen will appear.



- 4 Adjust the Red using the [▲/▼] buttons.
- 5 The selected option will be applied.

6.2 Green

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

A higher value will increase the intensity of the color.

6.2.1 Configuring Green

- Press any button on the front of the product to display the Function Key Guide.

 Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to COLOR and press [□/급] on the product.
- 3 Press [▲/▼] to move to **Green** and press [□/☞] on the product. The following screen will appear.



- 4 Adjust the Green using the [▲/▼] buttons.
- 5 The selected option will be applied.

6.3 Blue

Adjust the value of the color blue in the picture. (Range: $0\sim100$)

A higher value will increase the intensity of the color.

6.3.1 Configuring Blue

- 1 Press any button on the front of the product to display the Function Key Guide.
 - Next, press [MENU] to display the corresponding menu screen.
- Press [▲/▼] to move to COLOR and press [□/⊡] on the product.
- 3 Press [▲/▼] to move to Blue and press [□/□] on the product.
 The following screen will appear.



- 4 Adjust the Blue using the [▲/▼] buttons.
- 5 The selected option will be applied.

6.4 Color Tone

Adjust the general color tone of the picture.



This menu is not available when MAGICAngle is enabled.

6.4.1 Configuring the Color Tone Settings

1 Press any button on the front of the product to display the Function Key Guide.

Next, press [MENU] to display the corresponding menu screen.

- Press [▲/▼] to move to COLOR and press [□/⊡] on the product.
- 3 Press [▲/▼] to move to Color Tone and press [□/◄] on the product.
 The following screen will appear.



- Cool 2: Set the color temperature to be cooler than Cool 1.
- Cool 1: Set the color temperature to be cooler than Normal mode.
- Normal: Display the standard color tone.
- Warm 1: Set the color temperature to be warmer than Normal mode.
- Warm 2: Set the color temperature to be warmer than Warm 1.
- Custom: Customize the color tone.



- When the external input is connected through HDMI and PC/AV Mode is set to AV, Color Tone has four color temperature settings (Cool, Normal, Warm and Custom).
- The function may not be supported depending on the ports provided with the product.
- 4 Press [▲/▼] to move to the option you want and press [□/⊡].
- 5 The selected option will be applied.

6.5 Gamma

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



This menu is not available when ${\tt MAGIC}^{\tt SAMSUNG}{\tt Angle}$ is enabled.

6.5.1 Configuring Gamma

- Press any button on the front of the product to display the Function Key Guide.
 Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to COLOR and press [☐/☐] on the product.
- 3 Press [▲/▼] to move to Gamma and press [□/⊡] on the product.
 The following screen will appear.



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

7.1 Language

Set the menu language.



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

7.1.1 Configuring Language

- Press any button on the front of the product to display the Function Key Guide.
 Next, press [MENU] to display the corresponding menu screen.
- Press [▲/▼] to move to MENU SETTINGS and press [□/⊡] on the product.
- 3 Press [▲/▼] to move to Language and press [☐/⊡] on the product.

 The following screen will appear.



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

7.2 Menu H-Position & Menu V-Position

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

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

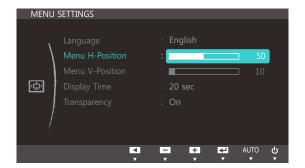
7.2.1 Configuring Menu H-Position & Menu V-Position

1 Press any button on the front of the product to display the Function Key Guide.

Next, press [MENU] to display the corresponding menu screen.

- 2 Press [▲/▼] to move to MENU SETTINGS and press [□/급] on the product.
- 3 Press [▲/▼] to move to Menu H-Position or Menu V-Position, and press [□/⊡] on the product.

The following screen will appear.





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

7.3 Display Time

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

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

7.3.1 Configuring Display Time

- 1 Press any button on the front of the product to display the Function Key Guide.

 Next, press [MENU] to display the corresponding menu screen.
- Press [▲/▼] to move to MENU SETTINGS and press [□/⊡] on the product.
- 3 Press [▲/▼] to move to Display Time and press [□/⊡] on the product.
 The following screen will appear.



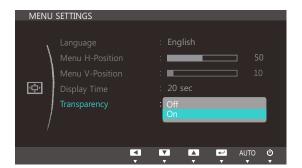
- 4 Press [▲/▼] to move to the option you want and press [□/-].
- 5 The selected option will be applied.

7.4 Transparency

Set the transparency for the menu windows:

7.4.1 Changing Transparency

- Press any button on the front of the product to display the Function Key Guide.
 Next, press [MENU] to display the corresponding menu screen.
- Press [▲/▼] to move to MENU SETTINGS and press [□/⊡] on the product.
- 3 Press [▲/▼] to move to Transparency and press [□/⊡] on the product.
 The following screen will appear.



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

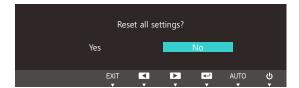
8.1 Reset

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

8.1.1 Initializing Settings (Reset)

- Press any button on the front of the product to display the Function Key Guide.
 - Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to **SETUP&RESET** and press [□/-] on the product.
- 3 Press [▲/▼] to move to Reset and press [□/⊡] on the product.
 The following screen will appear.





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

8.2 Eco Saving

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



This menu is not available when MAGIC Bright is in Dynamic Contrast mode.

8.2.1 Configuring Eco Saving

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



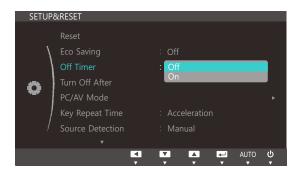
- 75%: Change the monitor power consumption to 75% of the default level.
- 50%: Change the monitor power consumption to 50% of the default level.
- Off: Deactivate the Eco Saving function.
- 4 Press [▲/▼] to move to the option you want and press [□/-].
- 5 The selected option will be applied.

8.3 Off Timer

You can set the product to automatically turn off.

8.3.1 Configuring Off Timer

- 1 Press any button on the front of the product to display the Function Key Guide.
 - Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to SETUP&RESET and press [□/៤] on the product.
- 3 Press [▲/▼] to move to Off Timer and press [□/□] on the product.
 The following screen will appear.



- Off: Deactivate the off timer so that the product does not power off automatically.
- On: Activate the off timer so that the product powers off automatically.
- 4 Press [▲/▼] to move to the option you want and press [□/⊡].
- 5 The selected option will be applied.

8.4 Turn Off After

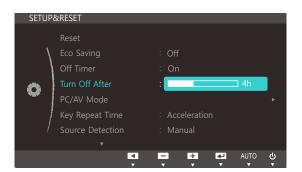
The off timer can be set within a range of 1 to 23 hours. The product will automatically power off after the specified number of hours.



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

8.4.1 Configuring Turn Off After

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



- 4 Press [▲/▼] to configure Turn Off After.
- 5 The selected option will be applied.
- For products for the market in Europe, 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** \rightarrow **SETUP&RESET** and set **Off Timer** to **Off**.

8.5 PC/AV Mode

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

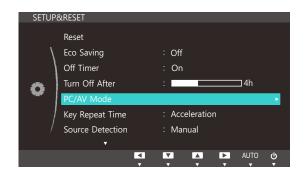


- This function does not support Analog mode.
- Supplied for the wide models only such as 16:9 or 16:10.

8.5.1 Configuring PC/AV Mode

- Press any button on the front of the product to display the Function Key Guide.

 Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to SETUP&RESET and press [□/ఁ] on the product.
- 3 Press [▲/▼] to move to PC/AV Mode and press [□/◄] on the product.
 The following screen will appear.





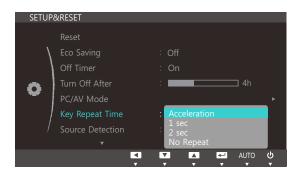
- 4 Press [▲/▼] to move to the option you want and press [□/-].
- 5 The selected option will be applied.

8.6 Key Repeat Time

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

8.6.1 Configuring Key Repeat Time

- 1 Press any button on the front of the product to display the Function Key Guide.
 - Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to SETUP&RESET and press [□/៤] on the product.
- 3 Press [▲/▼] to move to Key Repeat Time and press [□/◄] on the product.
 The following screen will appear.



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

8.7 Source Detection

You can activate Source Detection.

8.7.1 Configuring Source Detection

- Press any button on the front of the product to display the Function Key Guide.

 Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to SETUP&RESET and press [□/⊡] on the product.
- 3 Press [▲/▼] to move to Source Detection and press [□/◄] on the product. The following screen will appear.



- Auto: The input source is automatically recognized.
- Manual: Manually select an input source.
- 4 Press [▲/▼] to move to the option you want and press [□/៤].
- 5 The selected option will be applied.

8.8 Customized Key

You can customize Customized Key as follows.

8.8.1 Configuring Customized Key

- Press any button on the front of the product to display the Function Key Guide.
 Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to **SETUP&RESET** and press [□/-] on the product.
- 3 Press [▲/▼] to move to Customized Key and press [□/⊡] on the product.
 The following screen will appear.



- SAMSUNG Angle SAMSUNG Bright Eco Saving Image Size
- 4 Press [▲/▼] to move to the option you want and press [□/⊡].
- 5 The selected option will be applied.

9.1 Reset

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

9.1.1 Initializing Settings (Reset)

- Press any button on the front of the product to display the Function Key Guide.
 - Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to **SETUP&RESET** and press [□/-] on the product.
- 3 Press [▲/▼] to move to Reset and press [□/□] on the product.
 The following screen will appear.





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

9.2 Eco Saving

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



This menu is not available when MAGIC Bright is in Dynamic Contrast mode.

9.2.1 Configuring Eco Saving

- Press any button on the front of the product to display the Function Key Guide.
 Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to **SETUP&RESET** and press [□/급] on the product.
- 3 Press [▲/▼] to move to Eco Saving and press [□/☞] on the product.
 The following screen will appear.



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

9.3 Off Timer

You can set the product to automatically turn off.

9.3.1 Configuring Off Timer

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



- Off: Deactivate the off timer so that the product does not power off automatically.
- On: Activate the off timer so that the product powers off automatically.
- 4 Press [▲/▼] to move to the option you want and press [□/⊡].
- 5 The selected option will be applied.

9.4 Turn Off After

The off timer can be set within a range of 1 to 23 hours. The product will automatically power off after the specified number of hours.



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

9.4.1 Configuring Turn Off After

- 1 Press any button on the front of the product to display the Function Key Guide.
- 2 Press [▲/▼] to move to **SETUP&RESET** and press [□/☞] on the product.

Next, press [MENU] to display the corresponding menu screen.

3 Press [▲/▼] to move to Turn Off After and press [□/◄] on the product.
The following screen will appear.



- 4 Press [▲/▼] to configure Turn Off After.
- 5 The selected option will be applied.
- For products for the market in Europe, 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** \rightarrow **SETUP&RESET** and set **Off Timer** to **Off**.

9.5 Key Repeat Time

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

9.5.1 Configuring Key Repeat Time

- 1 Press any button on the front of the product to display the Function Key Guide.
 - Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to **SETUP&RESET** and press [□/៤] on the product.
- 3 Press [▲/▼] to move to Key Repeat Time and press [□/⊡] on the product.
 The following screen will appear.



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

9.6 Customized Key

You can customize Customized Key as follows.

9.6.1 Configuring Customized Key

- Press any button on the front of the product to display the Function Key Guide.

 Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to **SETUP&RESET** and press [□/-] on the product.
- 3 Press [▲/▼] to move to Customized Key and press [□/⊡] on the product.
 The following screen will appear.



- SAMSUNG Angle SAMSUNG Bright Eco Saving Image Size
- 4 Press [▲/▼] to move to the option you want and press [□/□].
- 5 The selected option will be applied.

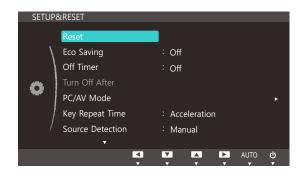
Setup and Reset (S22C300H / S24C300HL)

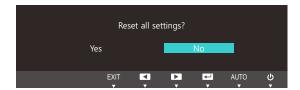
10.1 Reset

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

10.1.1 Initializing Settings (Reset)

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





- 4 Press [▲/▼] to move to the option you want and press [□/៤].
- 5 The selected option will be applied.



Setup and Reset (S22C300H / S24C300HL)

10.2 Eco Saving

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



This menu is not available when MAGIC Bright is in Dynamic Contrast mode.

10.2.1 Configuring Eco Saving

- Press any button on the front of the product to display the Function Key Guide.

 Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to **SETUP&RESET** and press [□/급] on the product.
- 3 Press [▲/▼] to move to Eco Saving and press [□/⊡] on the product.
 The following screen will appear.



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

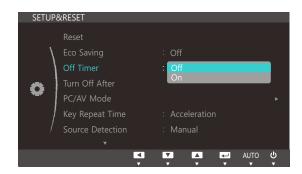
Setup and Reset (S22C300H / S24C300HL)

10.3 Off Timer

You can set the product to automatically turn off.

10.3.1 Configuring Off Timer

- Press any button on the front of the product to display the Function Key Guide.
 - Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to SETUP&RESET and press [□/៤] on the product.
- 3 Press [▲/▼] to move to Off Timer and press [□,/⊡] on the product.
 The following screen will appear.



- Off: Deactivate the off timer so that the product does not power off automatically.
- On: Activate the off timer so that the product powers off automatically.
- 4 Press [▲/▼] to move to the option you want and press [□/□].
- 5 The selected option will be applied.

10.4 Turn Off After

The off timer can be set within a range of 1 to 23 hours. The product will automatically power off after the specified number of hours.



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

10.4.1 Configuring Turn Off After

- 1 Press any button on the front of the product to display the Function Key Guide.
 - Next, press $\left[\mbox{MENU} \right]$ to display the corresponding menu screen.
- 2 Press [▲/▼] to move to **SETUP&RESET** and press [□/급] on the product.
- 3 Press [▲/▼] to move to Turn Off After and press [□/⊡] on the product.
 The following screen will appear.



- 4 Press [▲/▼] to configure Turn Off After.
- 5 The selected option will be applied.
- For products for the market in Europe, 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** \rightarrow **SETUP&RESET** and set **Off Timer** to **Off**.



10.5 PC/AV Mode

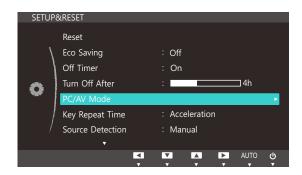
Set PC/AV Mode to AV. The picture size will be enlarged. This option is useful when you view a movie.

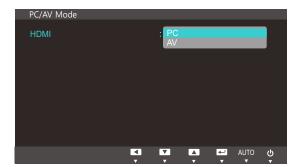


- This function does not support Analog mode.
- Supplied for the wide models only such as 16:9 or 16:10.

10.5.1 Configuring PC/AV Mode

- 1 Press any button on the front of the product to display the Function Key Guide.
 - Next, press $\left[\text{MENU} \right]$ to display the corresponding menu screen.
- 2 Press [▲/▼] to move to SETUP&RESET and press [□/ఁ] on the product.
- 3 Press [▲/▼] to move to PC/AV Mode and press [□/⊡] on the product.
 The following screen will appear.





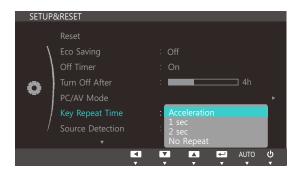
- 4 Press [▲/▼] to move to the option you want and press [□/⊡].
- 5 The selected option will be applied.

10.6 Key Repeat Time

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

10.6.1 Configuring Key Repeat Time

- 1 Press any button on the front of the product to display the Function Key Guide.
 - Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to SETUP&RESET and press [□/៤] on the product.
- 3 Press [▲/▼] to move to Key Repeat Time and press [☐/⊡] on the product.
 The following screen will appear.



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

10.7 Source Detection

You can activate Source Detection.

10.7.1 Configuring Source Detection

- Press any button on the front of the product to display the Function Key Guide.
 Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to SETUP&RESET and press [□/៤] on the product.
- 3 Press [▲/▼] to move to Source Detection and press [□/⊡] on the product.
 The following screen will appear.



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

10.8 Customized Key

You can customize Customized Key as follows.

10.8.1 Configuring Customized Key

- Press any button on the front of the product to display the Function Key Guide.
 Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to **SETUP&RESET** and press [□/-] on the product.
- 3 Press [▲/▼] to move to Customized Key and press [□/⊡] on the product.
 The following screen will appear.



- SAMSUNG Angle SAMSUNG Bright Eco Saving Image Size
- 4 Press [▲/▼] to move to the option you want and press [□/⊡].
- 5 The selected option will be applied.

11

INFORMATION Menu and Others

11.1 INFORMATION

View the current input source, frequency and resolution.

11.1.1 Displaying INFORMATION

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





The displayed menu items may vary depending on the model.

INFORMATION Menu and Others

11.2 Configuring Brightness and Contrast in the Initial Screen

Adjust the **Brightness**, **Contrast** using the [$\begin{subarray}{c} $\not\Rightarrow$ \end{bmatrix}$ buttons when the initial screen (that displays no menu screen) is displayed.

1 Press any button on the front of the product (when no menu screen is displayed) to display the Function Key Guide.

Next, press [- 2]. The following screen will appear.



- 2 Press the [☐/☐] button to alternate between the Brightness and Contrast settings.
- 3 Adjust the **Brightness**, **Contrast** using the [▲/▼] buttons.

12

Installing the Software

12.1 MagicTune

12.1.1 What is "MagicTune"?



"MagicTune" is a software program that helps with monitor adjustments by providing comprehensive descriptions of monitor functions and easy-to-understand guidelines.

You can adjust the product with the mouse and the keyboard without using the operating buttons of the product.

12.1.2 Installing the Software

- 1 Insert the installation CD into the CD-ROM drive.
- 2 Select the "MagicTune" setup program.
 - If the pop-up screen for the software installation does not appear on the main screen, find and double-click the "MagicTune" setup file on the CD-ROM.
- 3 Select the installation language and click **Next**.
- 4 Complete the remaining software installation steps according to the instructions displayed on the screen.



- The software may not work properly if you do not restart the computer after the installation.
- The "MagicTune" 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 ("MagicTune™")

The installation of "MagicTune™" may be affected by the Graphics Card, Motherboard and the Networking Environment.

System Requirements

OS

• Windows XP, Windows Vista, Windows 7, Windows 8

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Installing the Software

12.1.3 Removing the Software

You can only remove "MagicTune™" through **Add or Remove Programs** in Windows.

To remove "MagicTune™", complete the following steps.

- 1 Click **Start** select **Settings**, and select **Control Panel** from the menu. For Windows XP, click **Start**, and select **Control Panel** from the menu.
- 2 Double-click the **Add or Remove Programs** icon in the Control Panel.
- 3 In the **Add/Remove** window, find and select "MagicTune™" so that it is highlighted.
- 4 Click **Change or Remove Programs** to remove the software.
- 5 Select Yes to start removing "MagicTune™".
- 6 Wait until a message box appears informing you that the software has been removed completely.



For technical support, the FAQ (frequently asked questions) or information about the software upgrade for "MagicTuneTM", please visit our website (http://www.samsung.com/us/consumer/learningresources/monitor/magetune/pop_intro.html).



Installing the Software

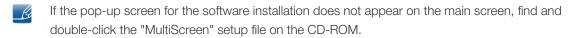
12.2 MultiScreen



"MultiScreen" enables users to use the monitor by partitioning multiple sections.

12.2.1 Installing the Software

- 1 Insert the installation CD into the CD-ROM drive.
- 2 Select the "MultiScreen" setup program.



- When the Installation Wizard appears, click **Next**.
- 4 Complete the remaining software installation steps according to the instructions displayed on the screen.



- The software may not work properly if you do not restart the computer after the installation.
- The "MultiScreen" 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 ("MultiScreen")

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

System Requirements

OS

- Windows™ 2000
- Windows XP Home Edition
- Windows XP Professional
- Windows Vista 32Bit
- Windows 7 32Bit
- Windows 8 32Bit



For "MultiScreen", the operating systems Windows 2000 or later is recommended.

12

Installing the Software

Hardware

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

12.2.2 Removing the Software

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

Select "MultiScreen" from the program list and click the **Add/Delete** button.

13

Troubleshooting Guide

13.1 Requirements Before Contacting Samsung Customer Service Center

13.1.1 Testing the Product



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

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

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

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



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

13.1.2 Checking the Resolution and Frequency

For a mode that exceeds the supported resolution (refer to "14.9 Standard Signal Mode Table"), the message **Not Optimum Mode** will appear for a short time.

13.1.3 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.	
	(Refer to "2.3 Connecting and Using a PC")	

Screen issue		
The power LED is off. The screen will not switch on.	Check that the power cable is connected properly.	
(Refer to "2.3 Connecting and Using a PC")		

Screen issue			
The message Check Signal Cable appears.	Check that the cable is properly connected to the product.		
	(Refer to "2.3 Connecting and Using a PC")		
	Check that the device connected to the product is powered on.		
Not Optimum Mode is displayed.	This message appears when the signal from the graphics card exceeds the maximum resolution or frequency for the product.		
	Change the maximum resolution and frequency to suit the product performance, referring to Standard Signal Mode Table (page 141).		
The images on the screen look distorted.	Check the cable connection to the product.		
	(Refer to "2.3 Connecting and Using a PC")		
The screen is not clear. The screen is blurry.	Adjust Coarse and Fine.		
	Remove any accessories (video extension cable, etc.) and try again.		
	Set the resolution and frequency to the recommended level.		
The screen appears unstable and shaky. 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 (page 141) 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. (Refer to " Configuring Tint")		
The colors on the screen have a shadow and are distorted.	Change the COLOR settings. (Refer to " Configuring Tint")		
White does not really look white.	Change the COLOR settings.		
WHITE GOES HOLFEARY TOOK WHITE.	(Refer to " Configuring Tint")		
There is no image on the screen and the power	The product is operating in power-saving mode.		
LED blinks every 0.5 to 1 second.	Press any key on the keyboard or move the mouse to return to normal operating mode.		



Source device issue		
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.	



13.2 Q & A

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



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



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

14.1 General (S19C300B / S19C300N)

Model Name		S19C300B	S19C300N
Panel	Size	18.5 Inches (47 cm)	
	Display area	409.8 mm (H) x 230.4 mm (V)	
		16.1 Inches (H) x 9.1 Inches (V)	
	Pixel Pitch	0.300 mm (H) x 0.300 mm (V)	
		0.012 Inches (H) x 0.012 Inches (V)
Synchronization	Horizontal Frequency		
	Vertical Frequency	56 ~ 75 Hz	
Display Color		16.7 M	
Resolution	Optimum Resolution	1366 x 768 @ 60 Hz	
	Maximum Resolution	1366 x 768 @ 60 Hz	
Input Signal, Terminated		RGB Analog, DVI (Digital Visual Interface) Compliant Digital RGB 0.7 Vp-p ± 5% separate H/V sync, Composite, SOG	RGB Analog 0.7 Vp-p ± 5% separate H/V sync, Composite, SOG
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	TTL level (V high ≥ 2.0V, V low ≤ 0.8V)
Maximum Pixel (Clock	85 MHz (Analog, Digital)	85 MHz (Analog)
Power Supply		This product supports 100-240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Signal connectors		15pin-to-15pin D-sub cable, Detachable	15pin-to-15pin D-sub cable, Detachable
		DVI-D to DVI-D connector, Detachable	
Dimensions (W x H x D) / Weight	Without Stand	445 x 279 x 51 mm	
		17.5 x 11.0 x 2.0 Inches	
* * OIGHT	With Stand	445 x 360 x 187 mm / 2.3 kg	
		17.5 x 14.2 x 7.4 Inches / 5.1 lbs	

Model Name S19C300B		S19C300N	
Environmental	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
considerations		Humidity: 10 % – 80 %, non-con	densing
	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
		Humidity: 5 % - 95 %, non-condensing	
Plug-and-Play		This monitor can be installed and used with any Plug-and-Play compatible systems. Two-way data exchange between the monitor and PC system optimizes the monitor settings. Monitor installation takes place automatically. However, you can customize the installation settings if desired.	
, ,		Due to the nature of the manufacturing of this product, approximately 1 pixel per million (1ppm) may be brighter or darker on the LCD panel. This does not affect product performance.	



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



This device is a Class B digital apparatus.

(USA only)

Dispose unwanted electronics through an approved recycler.

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

www.samsung.com/recyclingdirect or call, (877) 278 - 0799

14.2 General (S19C300F)

Model Name		S19C300F	
Panel	Size	18.5 Inches (47 cm)	
	Display area	409.8 mm (H) x 230.4 mm (V)	
		16.1 Inches (H) x 9.1 Inches (V)	
	Pixel Pitch	0.300 mm (H) x 0.300 mm (V)	
		0.012 Inches (H) x 0.012 Inches (V)	
Synchronization	Horizontal Frequency	30~81 kHz	
	Vertical Frequency	56 ~ 75 Hz	
Display Color		16.7 M	
Resolution	Optimum Resolution	1366 x 768 @ 60 Hz	
	Maximum Resolution	1366 x 768 @ 60 Hz	
Input Signal, Ter	minated	RGB Analog,DVI(Digital Visual Interface) Compliant Digital RGB	
		0.7 Vp-p ± 5%	
		separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixel (Clock	85 MHz (Analog, Digital)	
Power Supply		This product supports 100-240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Signal connecto	rs	15pin-to-15pin D-sub cable, Detachable	
		DVI-D to DVI-D connector, Detachable	
Dimensions	Without Stand	445 x 279 x 51 mm	
(W x H x D) / Weight		17.5 x 11.0 x 2.0 Inches	
vveigni	With Stand	445 x 360 x 187 mm / 2.4 kg	
		17.5 x 14.2 x 7.4 Inches / 5.3 lbs	
VESA Mounting Interface		75 mm x 75 mm	
Environmental	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
considerations		Humidity: 10 % – 80 %, non-condensing	
	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
		Humidity: 5 % – 95 %, non-condensing	

Model Name	S19C300F	
Plug-and-Play	This monitor can be installed and used with any Plug-and-Play compatible systems. Two-way data exchange between the monitor and PC system optimizes the monitor settings. Monitor installation takes place automatically. However, you can customize the installation settings if desired.	
Panel Dots (Pixels)	Due to the nature of the manufacturing of this product, approximately 1 pixel per million (1ppm) may be brighter or darker on the LCD panel. This does not affect product performance.	



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



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www.samsung.com/recyclingdirect or call, (877) 278 - 0799

14.3 General (S20C300BL / S20C300NL)

Model Name		S20C300BL	S20C300NL
Panel	Size	19.5 Inches (49 cm)	
	Display area	432 mm (H) x 239.76 mm (V)	
		17 Inches (H) x 9.4 Inches (V)	
	Pixel Pitch	0.27 mm (H) x 0.27 mm (V)	
		0.01 Inches (H) x 0.01 Inches (V)	
Synchronization	Horizontal Frequency	30 ~ 81 kHz	
	Vertical Frequency	56 ~ 75 Hz	
Display Color	1	16.7 M	
Resolution	Optimum Resolution	1600 x 900 @ 60 Hz	
	Maximum Resolution	1600 x 900 @ 60 Hz	
Input Signal, Ter	minated	RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB	RGB Analog 0.7 Vp-p ± 5%
		0.7 Vp-p ± 5%	separate H/V sync, Composite,
		separate H/V sync, Composite,	SOG
		SOG	TTL level (V high ≥ 2.0V, V low ≤
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	0.8V)
Maximum Pixel Clock		136 MHz (Analog, Digital)	136 MHz (Analog)
Power Supply		This product supports 100-240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Signal connectors		15pin-to-15pin D-sub cable, Detachable	15pin-to-15pin D-sub cable, Detachable
		DVI-D to DVI-D connector, Detachable	
Dimensions	Without Stand	476.2 x 299.8 x 53 mm	
(W x H x D) / Weight		18.7 x 11.8 x 2.1 Inches	
VVOIGITE	With Stand	476.2 x 379.4 x 187 mm / 2.4 kg	
		18.7 x 14.9 x 7.4 Inches / 5.3 lbs	

Model Name S20C300BL S20C300N		S20C300NL	
Environmental	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
considerations		Humidity: 10 % – 80 %, non-con	densing
	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
		Humidity: 5 % - 95 %, non-condensing	
Plug-and-Play		This monitor can be installed and used with any Plug-and-Play compatible systems. Two-way data exchange between the monitor and PC system optimizes the monitor settings. Monitor installation takes place automatically. However, you can customize the installation settings if desired.	
		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.	



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14.4 General (S20C300FL)

Model Name		S20C300FL		
Panel	Size	19.5 Inches (49 cm)		
	Display area	432 mm (H) x 239.76 mm (V)		
		17 Inches (H) x 9.4 Inches (V)		
Pixel Pitch		0.27 mm (H) x0.27 mm (V)		
		0.01 Inches (H) x 0.01 Inches (V)		
Synchronization	Horizontal Frequency	30 ~ 81 kHz		
	Vertical Frequency	56 ~ 75 Hz		
Display Color		16.7 M		
Resolution	Optimum Resolution	1600 x 900 @ 60 Hz		
	Maximum Resolution	1600 x 900 @ 60 Hz		
Input Signal, Ter	minated	RGB Analog,DVI(Digital Visual Interface) Compliant Digital RGB		
		0.7 Vp-p ± 5%		
		separate H/V sync, Composite, SOG		
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)		
Maximum Pixel (Clock	136 MHz (Analog, Digital)		
Power Supply		This product supports 100-240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.		
Signal connector	rs	15pin-to-15pin D-sub cable, Detachable		
		DVI-D to DVI-D connector, Detachable		
Dimensions	Without Stand	476.2 x 299.8 x 53 mm		
(W x H x D) / Weight		18.7 x 11.8 x 2.1 Inches		
vveigni	With Stand	476.2 x 379.4 x 187 mm / 2.4 kg		
		18.7 x 14.9 x 7.4 Inches / 5.3 lbs		
VESA Mounting	Interface	75 mm x 75 mm		
Environmental	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)		
considerations		Humidity: 10 % – 80 %, non-condensing		
	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)		
		Humidity: 5 % – 95 %, non-condensing		

Model Name	S20C300FL
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.



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14.5 General (S22C300B / S22C300N)

Model Name		S22C300B S22C300N			
Panel	Size	21.5 Inches (54 cm)			
	Display area	476.64 mm (H) x 268.11 mm (V)			
		18.77 Inches (H) x 10.56 Inches (V)			
	Pixel Pitch	0.24825 mm (H) x 0.24825 mm (V)			
		0.0098 Inches (H) x 0.0098 Inches (V)			
Synchronization	Horizontal Frequency	30 ~ 81 kHz			
	Vertical Frequency	56 ~ 75 Hz			
Display Color		16.7 M			
Resolution	Optimum Resolution	1920 x 1080 @ 60 Hz			
	Maximum Resolution	1920 x 1080 @ 60 Hz			
Input Signal, Ter	rminated	RGB Analog,DVI(Digital Visual Interface) Compliant Digital RGB	RGB Analog 0.7 Vp-p ± 5%		
		0.7 Vp-p ± 5%	separate H/V sync, Composite,		
		separate H/V sync, Composite,	SOG		
		SOG	TTL level (V high ≥ 2.0V, V low ≤		
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	0.8V)		
Maximum Pixel (Clock	148 MHz (Analog, Digital)	148 MHz (Analog)		
Power Supply		This product supports 100-240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.			
Signal connecto	rs	15pin-to-15pin D-sub cable, Detachable	15pin-to-15pin D-sub cable, Detachable		
		DVI-D to DVI-D connector, Detachable			
Dimensions	Without Stand	510 x 319 x 53 mm			
(W x H x D) / Weight		20.1 x 12.6 x 2.1 Inches			
VVOIGITE	With Stand	510 x 398 x 195 mm / 2.9 kg			
		20.1 x 15.7 x 7.7 inches / 6.4 lbs			

Model Name		S22C300B S22C300N		
Environmental	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)		
considerations		Humidity: 10 % – 80 %, non-condensing		
	Storage	Temperature : -4°F ~ 113°F (-20°	C ~ 45°C)	
		Humidity: 5 % – 95 %, non-condensing		
Plug-and-Play	Play This monitor can be installed and used with any Plug-and-Play compatible systems. Two-way data exchange between the mo and PC system optimizes the monitor settings. Monitor installatakes place automatically. However, you can customize the installation settings if desired.		ta exchange between the monitor nitor settings. Monitor installation	
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.		



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14.6 General (S22C300F)

Model Name		S22C300F			
Panel	Size	21.5 Inches (54 cm)			
	Display area	476.64 mm (H) x 268.11 mm (V)			
		18.77 Inches (H) x 10.56 Inches (V)			
	Pixel Pitch	0.24825 mm (H) x 0.24825 mm (V)			
		0.0098 Inches (H) x 0.0098 Inches (V)			
Synchronization	Horizontal Frequency	30 ~ 81 kHz			
	Vertical Frequency	56 ~ 75 Hz			
Display Color		16.7 M			
Resolution	Optimum Resolution	1920 x 1080 @ 60 Hz			
	Maximum Resolution	1920 x 1080 @ 60 Hz			
Input Signal, Ter	rminated	RGB Analog,DVI(Digital Visual Interface) Compliant Digital RGB			
		0.7 Vp-p ± 5%			
		separate H/V sync, Composite, SOG			
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)			
Maximum Pixel (Clock	148 MHz (Analog, Digital)			
Power Supply		This product supports 100-240 V.Since the standard voltage may differ from country to country, please check the label on the back of the product.			
Signal connecto	rs	15pin-to-15pin D-sub cable, Detachable			
		DVI-D to DVI-D connector, Detachable			
Dimensions	Without Stand	510 x 319 x 53 mm			
(W x H x D) / Weight		20.1 x 12.6 x 2.1 Inches			
vveigni	With Stand	510 x 398 x 195 mm / 3.0 kg			
		20.1 x 15.7 x 7.7 inches / 6.6 lbs			
VESA Mounting Interface		75 mm x 75 mm			
Environmental	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)			
considerations		Humidity: 10 % – 80 %, non-condensing			
	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)			
		Humidity: 5 % – 95 %, non-condensing			

Model Name	S22C300F
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.



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14.7 General (S22C300H / S24C300HL)

Model Name		S22C300H	S24C300HL	
Panel	Size	21.5 Inches (54 cm)	23.6 Inches (59 cm)	
	Display area	476.64 mm (H) x 268.11 mm (V)	521.28 mm (H) x 293.22 mm (V)	
		18.77 Inches (H) x 10.56 Inches (V)	20.52 Inches (H) x 11.54 Inches (V)	
	Pixel Pitch	0.24825 mm (H) x 0.24825 mm (V)	0.2715 mm (H) x 0.2715 mm (V)	
		0.0098 Inches (H) x 0.0098 Inches (V) 0.0107 Inches (H) x 0.0107 Inches (
Synchronization	Horizontal Frequency	30 ~ 81 kHz		
	Vertical Frequency	56 ~ 75 Hz		
Display Color		16.7 M		
Resolution	Optimum Resolution	1920 x 1080 @ 60 Hz		
	Maximum Resolution	1920 x 1080 @ 60 Hz		
Input Signal, Ter	minated	RGB Analog, HDMI (High Definition Multimedia Interface)		
		0.7 Vp-p ± 5%		
		separate H/V sync, Composite, SOG		
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)		
Maximum Pixel	Clock	148 MHz (Analog, HDMI)		
Power Supply		This product supports 100-240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.		
Signal connecto	rs	15pin-to-15pin D-sub cable, Detachable		
		HDMI to DVI Cable, Detachable		
		HDMI Cable, Detachable		
Dimensions	Without Stand	510 x 319 x 53 mm	569 x 349 x 53 mm	
(W x H x D) / Weight		20.1 x 12.6 x 2.1 Inches	22.4 x 13.7 x 2.1 inches	
vveigi it	With Stand	510 x 398 x 195 mm / 2.9 kg	569 x 429 x 195 mm / 3.5 kg	
		20.1 x 15.7 x 7.7 inches / 6.4 lbs	22.4 x 16.9 x 7.7 inches / 7.7 lbs	
Environmental	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)		
considerations		Humidity: 10 % – 80 %, non-con	densing	
	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)		
		Humidity: 5 % – 95 %, non-cond	lensing	

Model Name	S22C300H	S24C300HL
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 dark on the LCD panel. This does not affect product performance.	



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14.8 PowerSaver

The power-saving function of this product reduces power consumption by switching off the screen and controlling the power LED status if the product is not used for a specified period of time.

The power is not turned off in power-saving mode. To switch the screen back on, press any key on the keyboard or move the mouse. Power-saving mode functions only when the product is connected to a PC that has a power-saving function.

PowerSaver	Energy Star Power Consumption	Power saving mode	Power off (Power button)
Power Indicator	On	Blinking	Off
Power Consumption (S19C300B)	13 W	Typical 0.3 W	Typical 0.3 W
Power Consumption (S19C300N)	13 W	Typical 0.3 W	Typical 0.3 W
Power Consumption (S19C300F)	13 W	Typical 0.3 W	Typical 0.3 W
Power Consumption (S20C300BL)	14 W	Typical 0.3 W	Typical 0.3 W
Power Consumption (S20C300NL)	14 W	Typical 0.3 W	Typical 0.3 W
Power Consumption (S20C300FL)	14 W	Typical 0.3 W	Typical 0.3 W
Power Consumption (S22C300B)	22 W	Typical 0.3 W	Typical 0.3 W
Power Consumption (S22C300F)	22 W	Typical 0.3 W	Typical 0.3 W
Power Consumption (S22C300H)	21 W	Typical 0.3 W	Typical 0.3 W
Power Consumption (S22C300N)	22 W	Typical 0.3 W	Typical 0.3 W
Power Consumption (S24C300HL)	22 W	Typical 0.3 W	Typical 0.3 W



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

(S**C300 Model Power saving mode / Power off (Power button) : Max 0.45 watts.)

4

Specifications

- ENERGY STAR® is a US registered mark of the United States Environmental Protection Agency. Energy Star power is measured with the test method in the current Energy Star® Standard.
- To reduce the power consumption to 0 watts, turn off the power switch on the back of the product or disconnect the power cable. Be sure to disconnect the power cable when you will not be using the product for an extended period of time. To reduce the power consumption to 0 watts when the power switch is not available, disconnect the power cable.

4

Specifications

14.9 Standard Signal Mode Table



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

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.

S19C300B / S19C300N / S19C300F

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

S20C300BL / S20C300NL / S20C300FL

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

S22C300B / S22C300F / S22C300H / S22C300N / S24C300HL

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



Horizontal Frequency

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

Vertical Frequency

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

Appendix

Contact SAMSUNG WORLD WIDE



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

NORTH AMERICA		
U.S.A	1-800-SAMSUNG (726-7864)	http://www.samsung.com
CANADA	1-800-SAMSUNG (726-7864)	http://www.samsung.com/ca (English) http://www.samsung.com/ca_fr (French)
MEXICO	01-800-SAMSUNG (726-7864)	http://www.samsung.com

LATIN AMERICA		
ARGENTINE	0800-333-3733	http://www.samsung.com
BOLIVIA	800-10-7260	http://www.samsung.com
BRAZIL	0800-124-421 4004-0000	http://www.samsung.com
CHILE	800-SAMSUNG (726-7864)	http://www.samsung.com/cl
	From mobile 02-24 82 82 00	
COLOMBIA	01-8000 112 112 Bogotá: 6001272	http:/www.samsung.com/co
COSTA RICA	0-800-507-7267	http://www.samsung.com/latin (Spanish)
		http://www.samsung.com/latin_en (English)
DOMINICA	1-800-751-2676	http://www.samsung.com/latin (Spanish)
		http://www.samsung.com/latin_en (English)
ECUADOR	1-800-10-7267	http://www.samsung.com/latin (Spanish)
		http://www.samsung.com/latin_en (English)
EL SALVADOR	800-6225	http://www.samsung.com/latin (Spanish)
		http://www.samsung.com/latin_en (English)

LATIN AMERICA		
GUATEMALA	1-800-299-0013	http://www.samsung.com/latin (Spanish)
		http://www.samsung.com/latin_en (English)
HONDURAS	800-27919267	http://www.samsung.com/latin (Spanish)
		http://www.samsung.com/latin_en (English)
JAMAICA	1-800-234-7267	http://www.samsung.com
NICARAGUA	00-1800-5077267	http://www.samsung.com/latin (Spanish)
		http://www.samsung.com/latin_en (English)
PANAMA	800-7267	http://www.samsung.com/latin (Spanish)
		http://www.samsung.com/latin_en (English)
PARAGUAY	98005420001	http://www.samsung.com
PERU	0-800-777-08 (Only from landline)	http://www.samsung.com
	336-8686 (From HHP & landline)	
PUERTO RICO	1-800-682-3180	http://www.samsung.com
TRINIDAD & TOBAGO	1-800-SAMSUNG (726-7864)	http://www.samsung.com
URUGUAY	40543733	http://www.samsung.com
VENEZUELA	0-800-100-5303	http://www.samsung.com

EUROPE		
AUSTRIA	0810 - SAMSUNG (7267864, € 0.07/min)	http://www.samsung.com
BELGIUM	02-201-24-18	http://www.samsung.com/be (Dutch) http://www.samsung.com/be_fr (French)
BOSNIA	051 133 1999	http://www.samsung.com
BULGARIA	07001 33 11 , normal tariff	http://www.samsung.com
CROATIA	062 SAMSUNG (062 726 786)	http://www.samsung.com

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	(+30) 210 6897691 from mobile and land line	
CZECH	800 - SAMSUNG (800-726786)	http://www.samsung.com
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DENMARK	70 70 19 70	http://www.samsung.com
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ESTONIA	800-7267	http://www.samsung.com/ee
FINLAND	030-6227 515	http://www.samsung.com
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GERMANY	0180 5 SAMSUNG bzw. 0180 5 7267864* (*0,14 €/Min. aus dem dt. Festnetz, aus dem Mobilfunk max. 0,42 €/Min.)	http://www.samsung.com
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HUNGARY	06-80-SAMSUNG (726-7864)	http://www.samsung.com
ITALIA	800-SAMSUNG (726-7864)	http://www.samsung.com
LATVIA	8000-7267	http://www.samsung.com/lv
LITHUANIA	8-800-77777	http://www.samsung.com/lt
LUXEMBURG	261 03 710	http://www.samsung.com
MONTENEGRO	020 405 888	http://www.samsung.com
NETHERLANDS	0900 - SAMSUNG (0900-7267864) (€ 0,10/Min)	http://www.samsung.com
NORWAY	815 56480	http://www.samsung.com
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SLOVAKIA	0800 - SAMSUNG (0800-726 786)	http://www.samsung.com
SPAIN	902 - 1 - SAMSUNG (902 172 678)	http://www.samsung.com
SWEDEN	0771 726 7864 (SAMSUNG)	http://www.samsung.com
SWITZERLAND	0848-SAMSUNG (7267864, CHF 0.08/min)	http://www.samsung.com/ch (German) http://www.samsung.com/ch_fr (French)
U.K	0330 SAMSUNG (7267864)	http://www.samsung.com

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ARMENIA	0-800-05-555	http://www.samsung.com
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GEORGIA	0-800-555-555	http://www.samsung.com
KAZAKHSTAN	8-10-800-500-55-500 (GSM: 7799)	http://www.samsung.com
KYRGYZSTAN	00-800-500-55-500	http://www.samsung.com
MOLDOVA	0-800-614-40	http://www.samsung.com
MONGOLIA	+7-800-555-55	http://www.samsung.com
RUSSIA	8-800-555-55-55	http://www.samsung.com
TADJIKISTAN	8-10-800-500-55-500	http://www.samsung.com
UKRAINE	0-800-502-000	http://www.samsung.com/ua (Ukrainian) http://www.samsung.com/ua_ru (Russian)
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CHINA	400-810-5858	http://www.samsung.com
HONG KONG	(852) 3698 - 4698	http://www.samsung.com/hk (Chinese)
		http://www.samsung.com/hk_en (English)
INDIA	1800 3000 8282 1800 266 8282	http://www.samsung.com/in
INDONESIA	0800-112-8888 021-5699-7777	http://www.samsung.com/id
JAPAN	0120-327-527	http://www.samsung.com
MALAYSIA	1800-88-9999	http://www.samsung.com/my
NEW ZEALAND	0800 SAMSUNG (0800 726 786)	http://www.samsung.com
PHILIPPINES	1-800-10-SAMSUNG (726-7864) for PLDT	http://www.samsung.com/ph
	1-800-3-SAMSUNG (726-7864) for Digitel	
	1-800-8-SAMSUNG (726-7864) for Globe	
	02-5805777	
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	0266-026-066	
THAILAND	1800-29-3232	http://www.samsung.com/th
	02-689-3232	
VIETNAM	1 800 588 889	http://www.samsung.com

MENA		
BAHRAIN	8000-4726	http://www.samsung.com/ae (English) http://www.samsung.com/ae_ar (Arabic)
EGYPT	08000-726786	http://www.samsung.com
IRAN	021-8255	http://www.samsung.com
JORDAN	800-22273 065777444	http://www.samsung.com/Levant (English)

MENA		
KUWAIT	183-2255 (183-CALL)	http://www.samsung.com/ae (English) http://www.samsung.com/ae_ar (Arabic)
MOROCCO	080 100 2255	http://www.samsung.com
OMAN	800-SAMSUNG (726-7864)	http://www.samsung.com/ae (English) http://www.samsung.com/ae_ar
	000 0055 (000 0444)	(Arabic)
QATAR	800-2255 (800-CALL)	http://www.samsung.com/ae (English) http://www.samsung.com/ae_ar
		(Arabic)
SAUDI ARABIA	9200-21230	http://www.samsung.com/sa (Arabic)
SYRIA	18252273	http://www.samsung.com/Levant (English)
TURKEY	444 77 11	http://www.samsung.com
U.A.E	800-SAMSUNG (726-7864)	http://www.samsung.com

AFRICA		
ANGOLA	91-726-7864	http://www.samsung.com
BOTSWANA	0800-726-000	http://www.samsung.com
CAMEROON	7095- 0077	http://www.samsung.com
COTE D' IVOIRE	8000 0077	http://www.samsung.com
GHANA	0800-10077	http://www.samsung.com
	0302-200077	
KENYA	0800 724 000	http://www.samsung.com
NAMIBIA	8197267864	http://www.samsung.com
NIGERIA	0800-726-7864	http://www.samsung.com
SENEGAL	800-00-0077	http://www.samsung.com
SOUTH AFRICA	0860-SAMSUNG (726-7864)	http://www.samsung.com
TANZANIA	0685 88 99 00	http://www.samsung.com
UGANDA	0800 300 300	http://www.samsung.com
ZAMBIA	211350370	http://www.samsung.com

Responsibility for the Pay Service (Cost to Customers)



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

Not a product defect

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

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

A Product damage caused by customer's fault

Product damage caused by customer's mishandling or wrong repair

If a product damage is caused by;

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

Others

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



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

Correct Disposal

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



(Applicable in countries with separate collection systems)

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

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

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

Terminology

OSD (On Screen Display)

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

Gamma

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

Grey scale

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

Scanning rate

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

Horizontal Frequency

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

Vertical Frequency

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

Resolution

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

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

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

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

Plug & Play

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

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

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