

SECURITY LED MONITOR

User Manual

SMT-1914



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Before Using the Product

Copyright

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Microsoft, Windows and Windows NT are registered trademarks of Microsoft Corporation.

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Icons used in this manual

	The following images are for reference only. Real-life situations may differ from what is shown in the images.
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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.
	Activities marked by this symbol are prohibited.
	Instructions marked by this symbol must be followed.

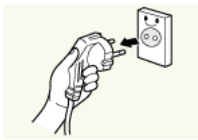
Before Using the Product

Cleaning

Cleaning

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

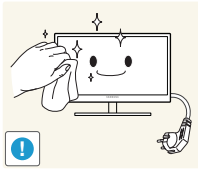
Take the following steps when cleaning.



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.



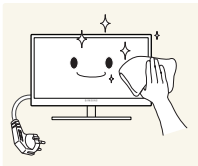
3. Wipe the monitor screen using a clean, soft and dry cloth.



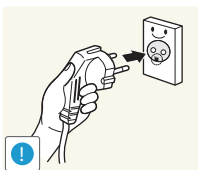
- Do not apply a cleaning agent that contains alcohol, solvent, or surfactant to the monitor.



- Do not spray water or detergent directly on the product.



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



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

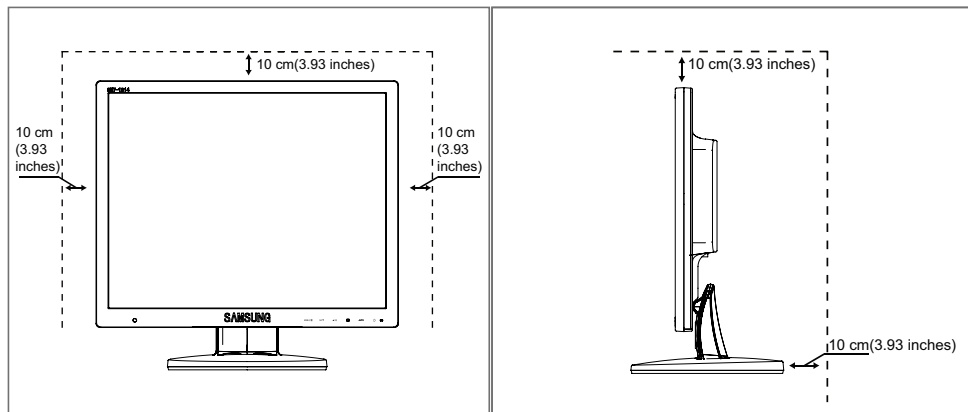
Before Using the Product

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.



Before Using the Product

Safety Precautions

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.



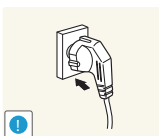
Do not plug many products into the same power socket.

- Otherwise, the socket may overheat and cause a fire.



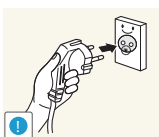
Do not touch the power plug with wet hands.

- Otherwise, an electric shock may result.



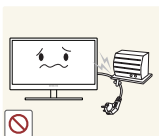
Insert the power plug all the way in so it is not loose.

- An unstable connection may cause a fire.



Ensure you 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.

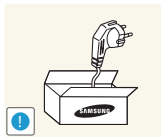
Before Using the Product

Caution



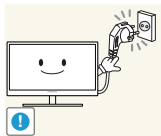
Do not unplug the power cord when the product is in use.

- The product may become damaged by an electric shock.



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

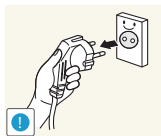
- An electric shock or fire may result.



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

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

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



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

- An electric shock or fire may result.

Installation and Safety

Warning



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

- Otherwise, a fire may result.



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

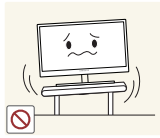
- Otherwise, a fire may result due to an increased internal temperature.



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

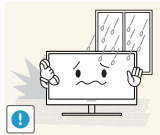
- Children may suffocate.

Before Using the Product



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.



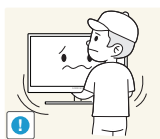
Do not install the product within the reach of young children.

- The product may fall and injure children.



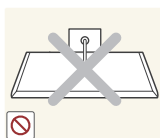
Edible oil, such as soybean oil, can damage or deform the product. Do not install the product in a kitchen or near a kitchen counter.

Caution



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.

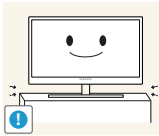
- The screen may become damaged.



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.

Before Using the Product



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.

Operation and Safety

Warning



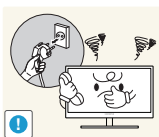
High voltage runs through the product. Do not attempt to disassemble, repair, or modify the product on your own.

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



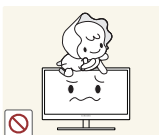
Before you move the product, be sure to turn off the power switch and remove all the cables connected to the product, including the power cord .

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



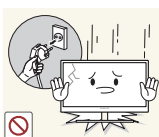
If the product generates a strange noise, a burning smell, or smoke, remove the power cord immediately and contact Samsung Customer Service Center .

- 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.

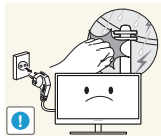
- Otherwise, an electric shock or fire may result.

Before Using the Product



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.



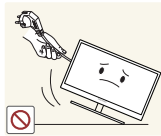
During a lightning or thunderstorm, remove the power cord .

- An electric shock or fire may result.



Do not drop objects on the product or apply impact.

- An electric shock or fire may result.



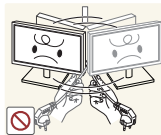
Do not move the product by pulling the power cord or any cable.

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



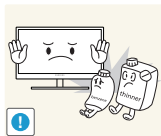
If a gas leakage is found, do not touch the product or power plug. Also, ventilate the area immediately.

- Sparks can cause an explosion or fire.
- During a lightning or thunderstorm, do not touch the power cord.



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

- Otherwise, the 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.

Before Using the Product



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.

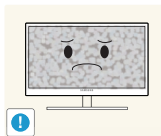
- If water or any foreign substance enters the product, be sure to power off the product, remove the power cord, and contact Samsung Customer Service Center.
- Product failure, an electric shock or fire may result.



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

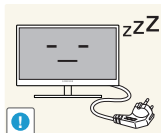
- If water or any foreign substance enters the product, be sure to power off the product, remove the power cord, and contact Samsung Customer Service Center.
- Product failure, an electric shock or fire may result.

Caution



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

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



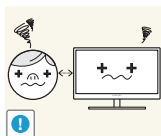
Disconnect the power cord from the power socket if you do not plan on using the product for an extended period of time (vacation, etc.).

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



Use the product at the recommended resolution and frequency.

- Otherwise, your eyesight may deteriorate.



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.

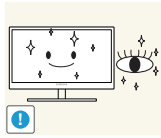
- The product may fall and break or cause a personal injury.



Do not use humidifiers or stoves around the product.

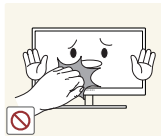
- An electric shock or fire may result.

Before Using the Product

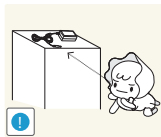


Rest your eyes for more than 5 minutes for every 1 hour of product use.

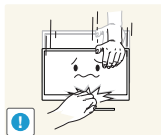
- Eye fatigue will be relieved.



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.

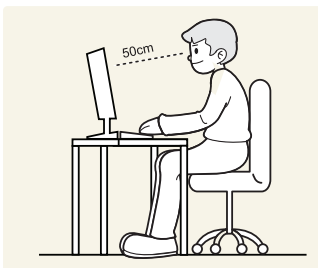
- Otherwise, children's fingers or hands may become stuck and injured.
- Tilting the product excessively may cause it to fall and result in personal injury.



Do not place heavy objects on the product.

- Product failure or personal injury may result.

Correct posture to use the product



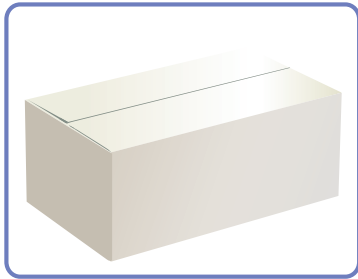
Use the product in the correct posture as follows.

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

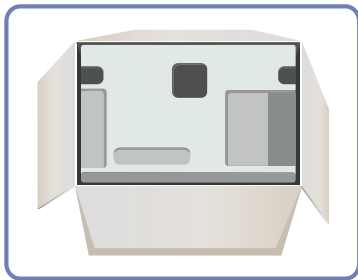
1.1 Checking the Contents

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.



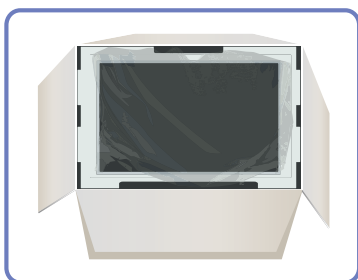
- 2 Remove the styrofoam from the product.



- 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

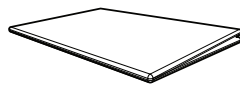


- Contact the dealer from whom you purchased the product if any item is missing.
- The appearance of the components and items sold separately may differ from the image shown.

Components



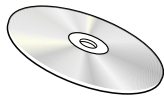
security LED MONITOR



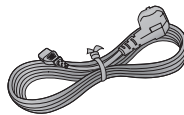
Instruction Manual



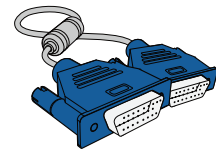
Warranty card
(Not available in some locations)



Manual CD



Power cable



VGA signal cable



Cable holding ring



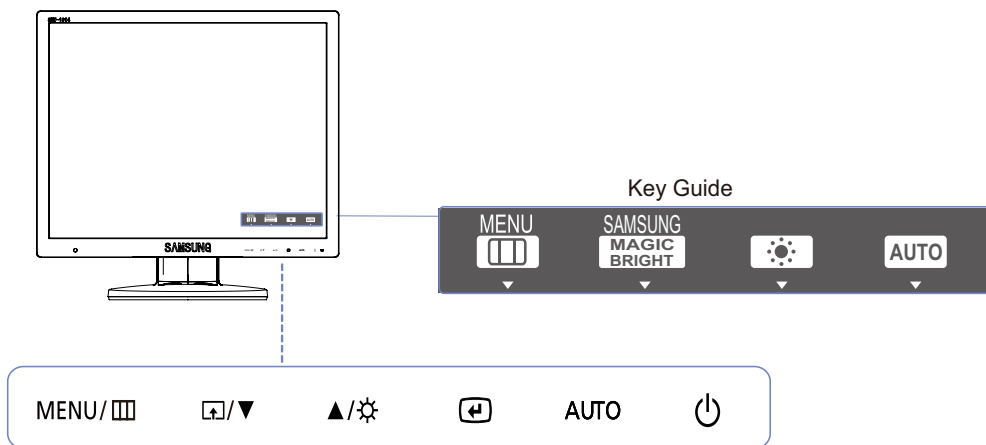
Components may vary depending on the country.

1.2 Parts

1.2.1 Frontal Buttons



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



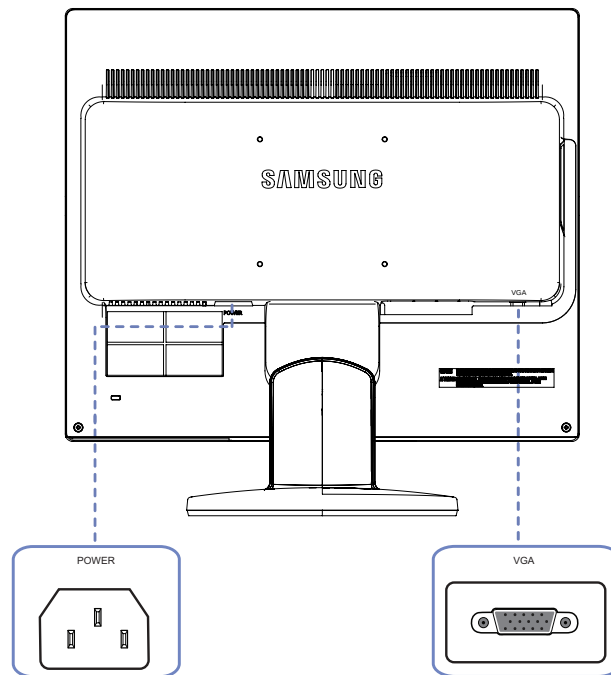
Icons	Description
MENU	- Open or close the onscreen display (OSD) menu, or return to the parent menu. - OSD control lock: Maintain the current settings, or lock the OSD control to prevent unintended changes to settings. Enable: To lock the OSD control, press the [MENU] button for 10 seconds. Disable: To unlock the locked OSD control, press the [MENU] button for more than 10 seconds. If the OSD control is locked, - Brightness and Contrast, can be adjusted, and INFORMATION can be viewed. - The Customized Key function can be used by pressing the [□] button. (The Customized Key function specified before the OSD control was locked is available even when the OSD control is locked.)
□	Configure Customized Key and press [□]. The following options will be enabled. SAMSUNG MAGIC Angle - SAMSUNG MAGIC Bright - Eco Saving 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.
⚙	Adjust the screen brightness.
⏏	Confirm a menu selection.
AUTO	Press the [AUTO] button to automatically adjust the screen settings.  Changing the resolution in Display Properties will activate the Auto Adjustment function.
⏻	Turn the screen on or off.
Key Guide	When a control button on the product is pressed, the 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 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.



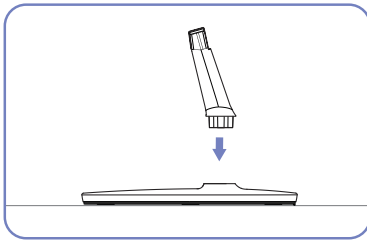
Port	Ports
	Connect the power cord for your monitor to the POWER port on the back of the product.
	Connect to a PC/DVR using the VGA cable.

1.3 Installation

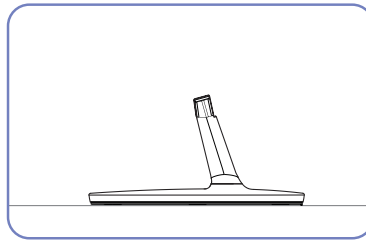
1.3.1 Attaching the Stand



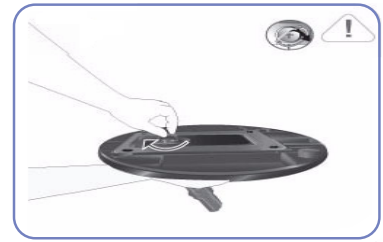
Before assembling the product, place the product down on a flat and stable surface so that the screen is facing downwards.



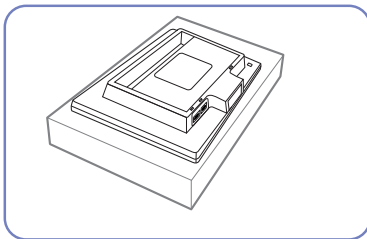
Insert the Stand Connector into the Stand in the direction shown by the figure.



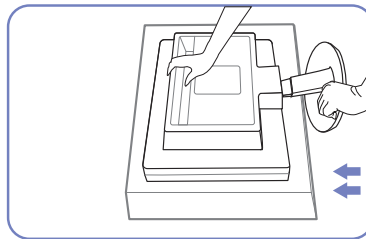
Check if the Stand Connector is firmly connected.



Turn the connecting screw at the bottom of the stand fully so that it is completely fixed.

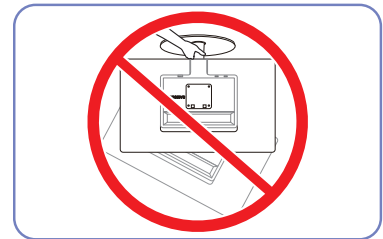


Place a soft cloth over the table to protect the product and place the product onto the cloth so that the front of the product is facing downwards.



Hold the main body of the 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.



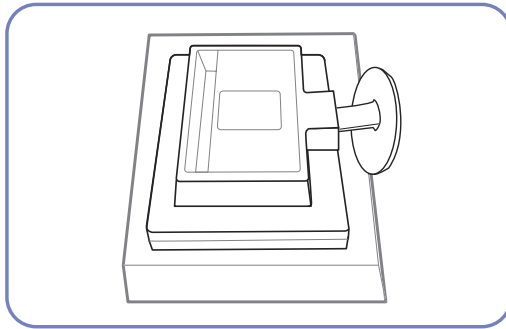
The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.

1.3.2 Installing a Wall-mount Kit or Desktop Stand

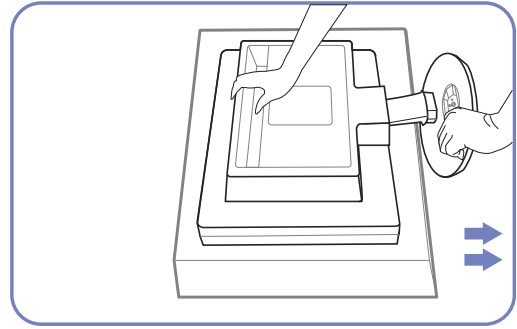
Before Installation



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



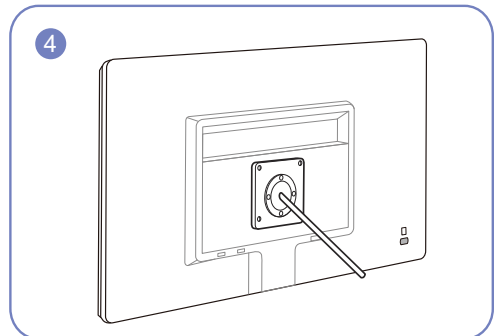
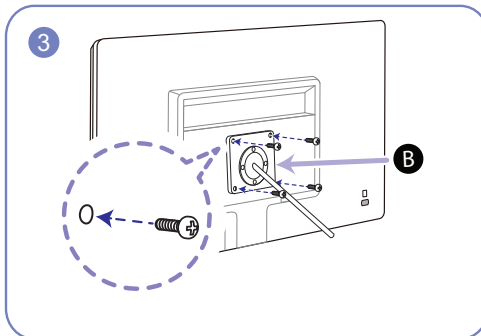
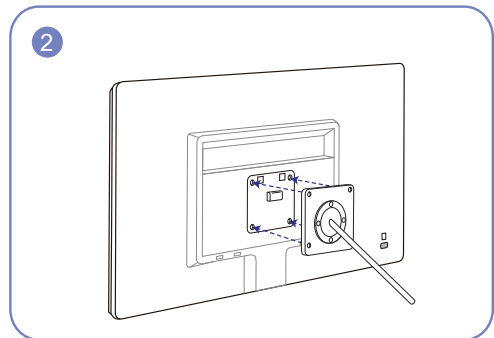
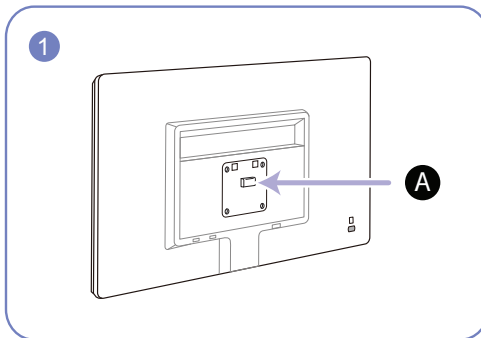
Place a protective cloth or cushion on a flat surface. Next, place the product with the face down on top of the cloth or cushion.



Hold the main body of the product with your hand as shown by the figure.

Pull the stand in the direction of the arrow as shown in the figure to separate it.

Installing a Wall-mount Kit or Desktop Stand



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.

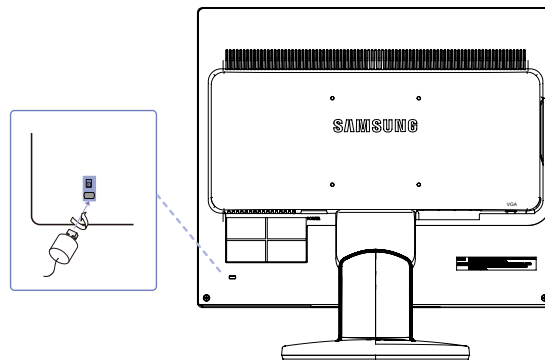


Notes

- 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 wall-mount 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.

1.3.3 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.

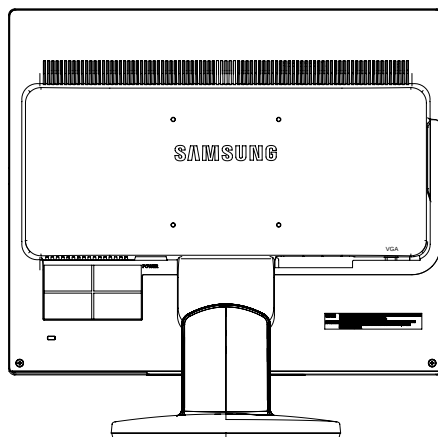
To lock an anti-theft locking device:

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



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

2.1 Before Connecting

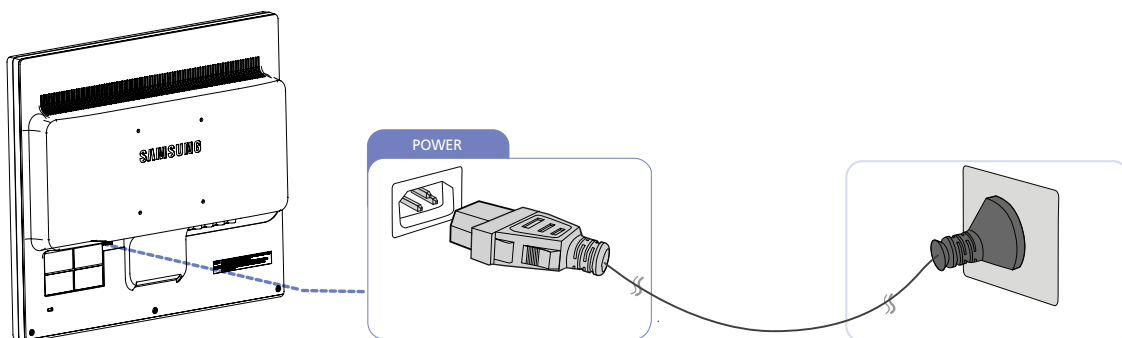


2.1.1 Pre-connection Checkpoints

- 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

- To use the product, connect the power cable to a power outlet and the [POWER] port on the product. (The input voltage is switched automatically.)



2.3 Connections

2.3.1 Connecting to a PC

- Select a connection method suitable for your PC.

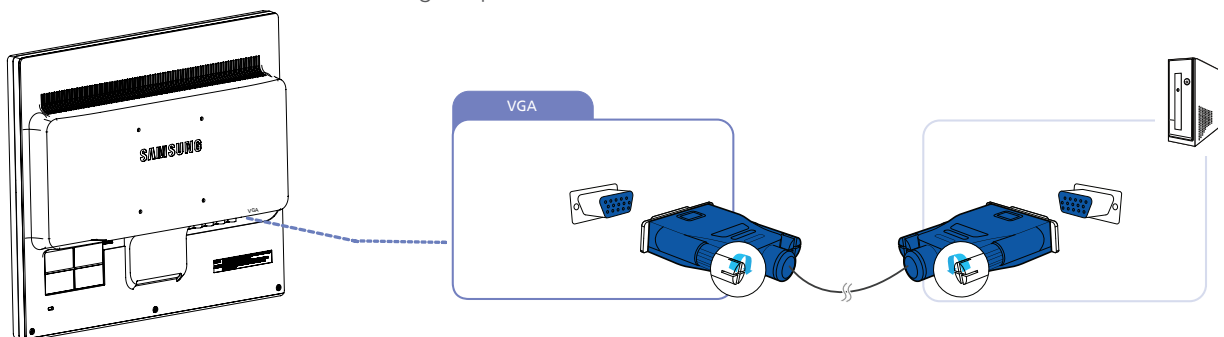


Connecting parts may differ in different products.

Connection Using the VGA Cable

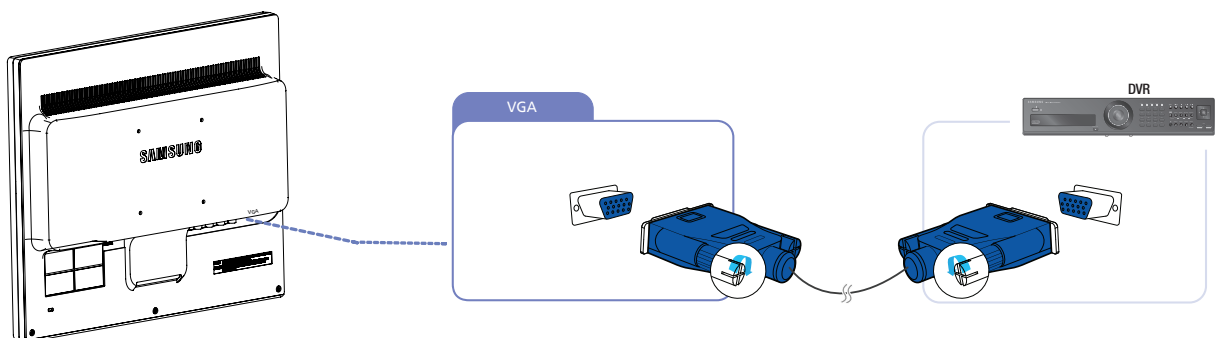


Do not connect the power cable before connecting all other cables. Ensure you connect a source device first before connecting the power cable.



Connect the VGA cable to the VGA port on the back of the product and the VGA port on the PC.

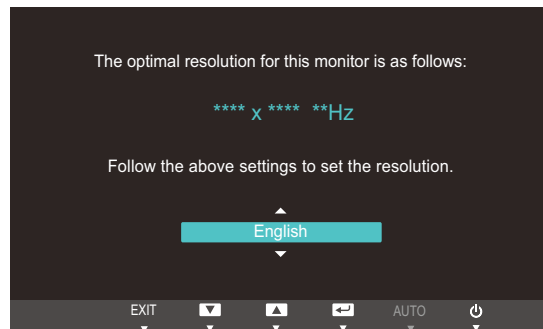
2.3.2 Connecting to a DVR



2.3.3 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 and change the resolution to the optimum value.



- 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.

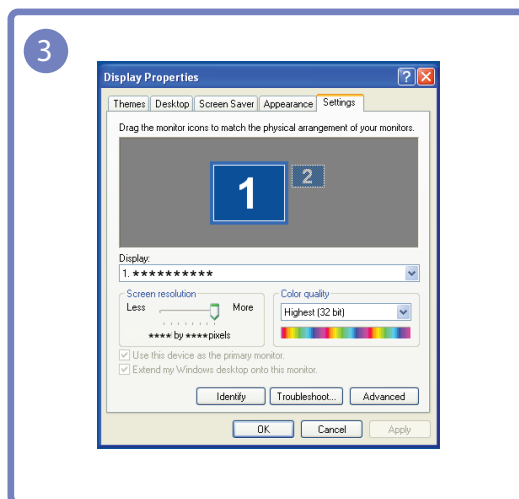
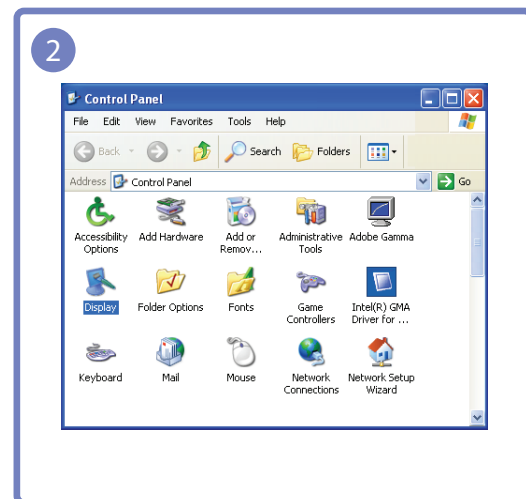
2.3.4 Changing the Resolution Using a PC



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

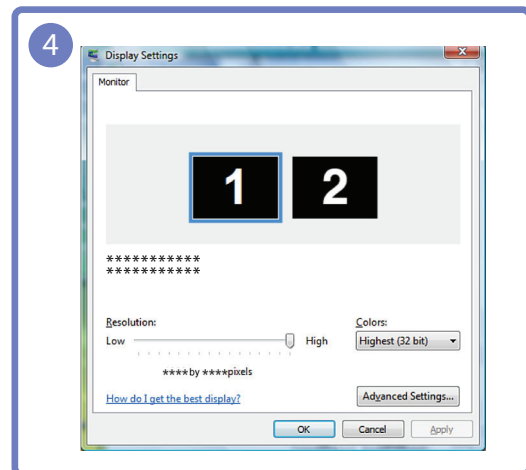
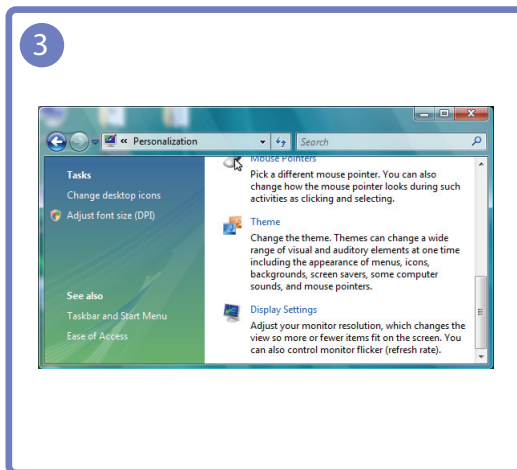
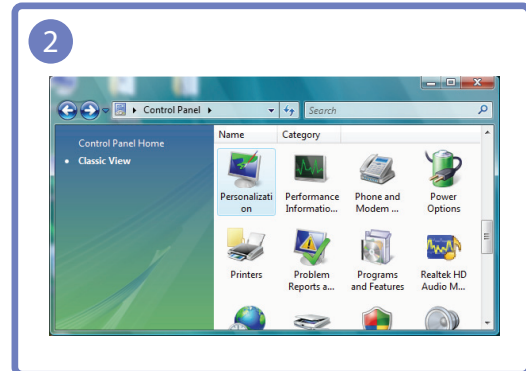
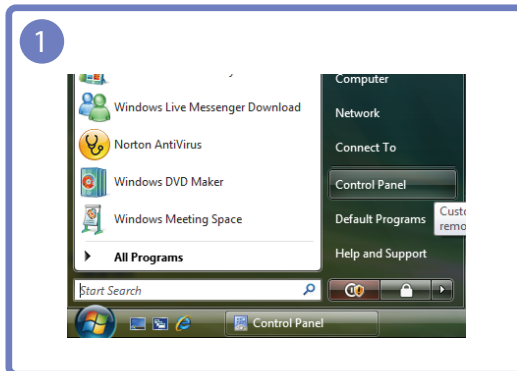
Changing the Resolution on Windows XP

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



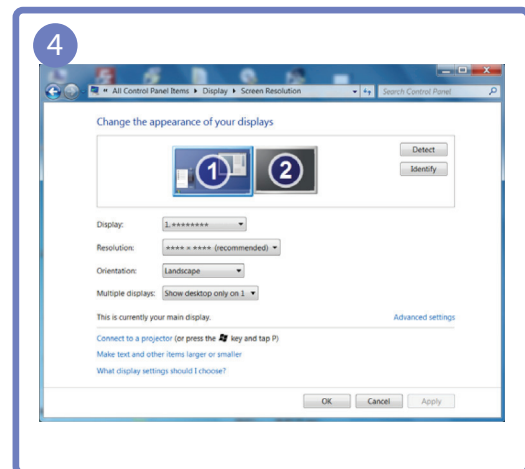
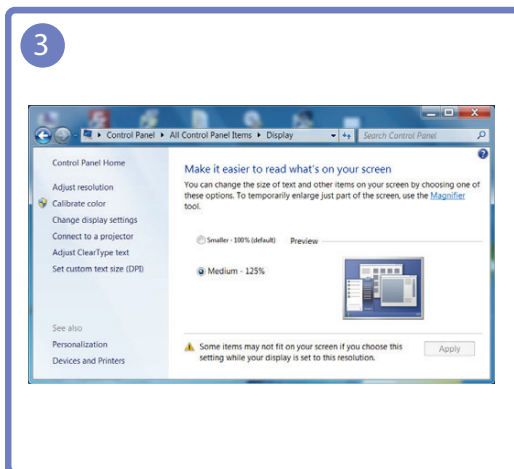
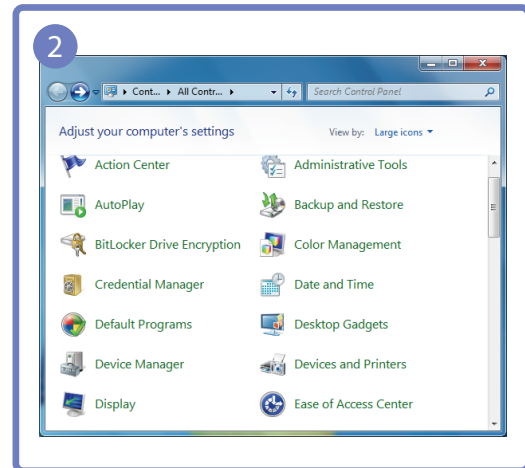
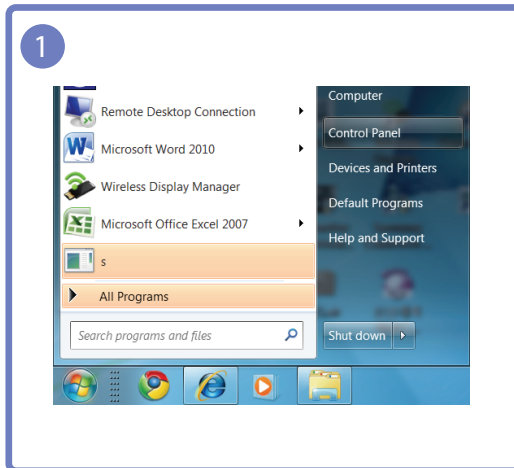
Changing the Resolution on Windows Vista

Go to **Control Panel** → **Personalization** → **Display Settings** and change the resolution.



Changing the Resolution on Windows 7

Go to **Control Panel** → **Display** → **Screen Resolution** and change the resolution.



Configure the screen settings such as brightness.

3.1 Brightness

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

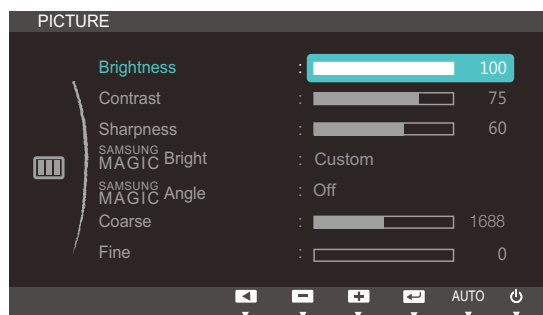
A higher value will make the picture appear brighter.



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

3.1.1 Configuring Brightness

- 1 Press any button on the front of the product to display the Key Guide. Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] 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.

3.2 Contrast

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

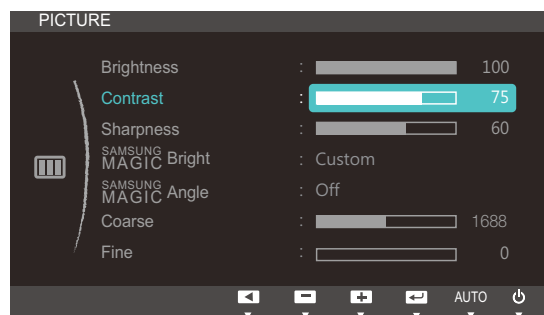
A higher value will increase the contrast to make the object appear clearer.



- This menu is not available when **SAMSUNG MAGIC Bright** is in **Cinema** or **Dynamic Contrast** mode.
- This menu is not available when **SAMSUNG MAGIC Color** is in **Full** or **Intelligent** mode.

3.2.1 Configuring Contrast

- 1 Press any button on the front of the product to display the Key Guide. Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] 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.

3.3 Sharpness

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

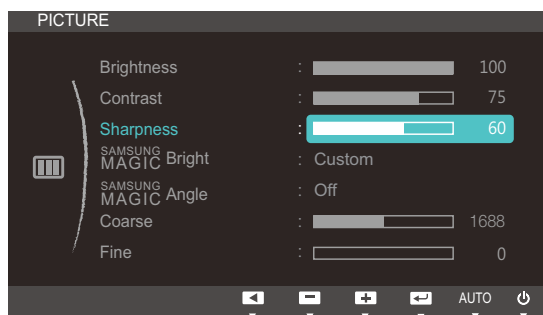
A higher value will make the outline of objects clearer.



- This menu is not available when **SAMSUNG MAGIC Bright** is in **Cinema** or **Dynamic Contrast** mode.
- This menu is not available when **SAMSUNG MAGIC Color** is in **Full** or **Intelligent** mode.

3.3.1 Configuring Sharpness

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



- 4 Adjust the **Sharpness** using the [▲/▼] buttons.

3.4 SAMSUNG MAGIC Bright

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

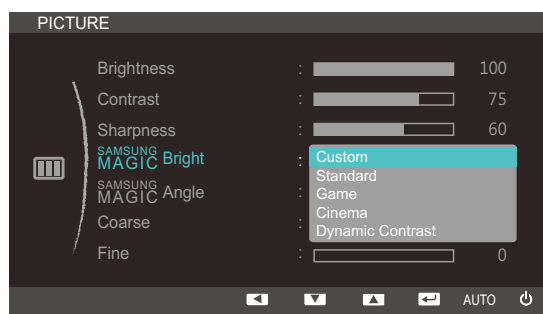


- Not available if **Eco Saving** is set to **On**.
- This menu is not available when **SAMSUNG MAGIC Angle** is enabled.

You can customize the brightness to suit your preferences.

3.4.1 Configuring SAMSUNG MAGIC Bright

- 1 Press any button on the front of the product to display the Key Guide. Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to **Picture** and press [↵] on the product.
- 3 Press [▲/▼] to move to **SAMSUNG MAGIC Bright** 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 MAGIC Angle allows you to configure the settings to obtain the optimum picture quality according to your viewing angle.

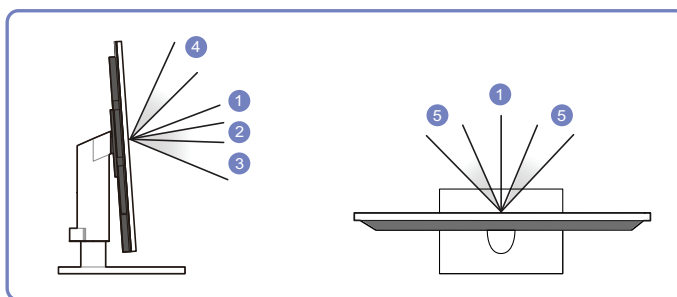
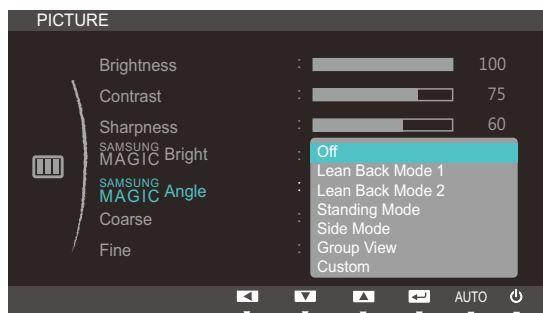


- This menu is not available when **SAMSUNG MAGIC Bright** is in **Cinema** or **Dynamic Contrast** mode.
- This menu is not available when **SAMSUNG MAGIC Color** is enabled.

You can customize the angle to suit your preferences.

3.5.1 Configuring SAMSUNG MAGIC Angle

- 1 Press any button on the front of the product to display the Key Guide. Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to **Picture** and press [⏏] on the product.
- 3 Press [▲/▼] to move to **SAMSUNG MAGIC Angle** and press [⏏] on the product. The following screen will appear.



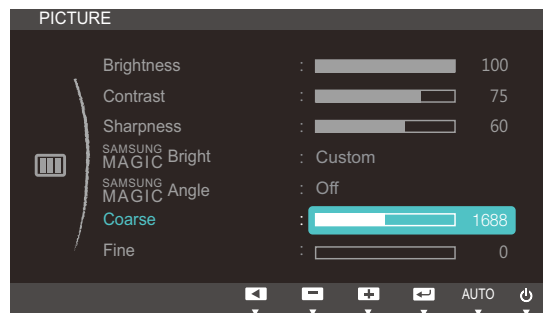
- **Off** ①: Select this option to view directly in front of the product.
 - **Lean Back Mode 1** ②: Select this option to view from a place slightly lower than the product.
 - **Lean Back Mode 2** ③: Select this option to view from a place lower than Lean Back Mode 1.
 - **Standing Mode** ④: Select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

Adjust the screen frequency.

3.6.1 Adjusting Coarse

- 1 Press any button on the front of the product to display the Key Guide. Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to **Picture** and press [ENTER] on the product.
- 3 Press [▲/▼] to move to **Coarse** and press [ENTER] on the product. The following screen will appear.



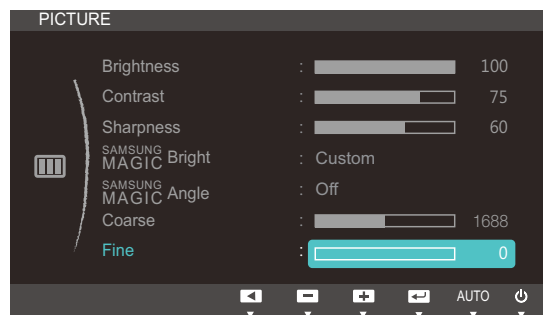
- 4 Adjust the **Coarse** using the [▲/▼] buttons.

3.7 Fine

Fine-adjust the screen to obtain a vivid picture.

3.7.1 Adjusting Fine

- 1 Press any button on the front of the product to display the Key Guide. Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] 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.

Configuring Tint

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

4.1 SAMSUNG MAGIC Color

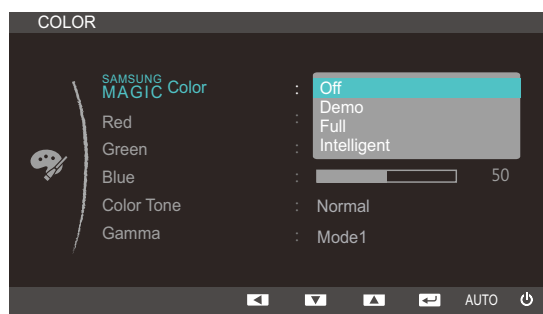
SAMSUNG MAGICColor is a new picture-quality improvement technology developed independently by Samsung, which delivers vivid natural colors without picture quality degradation.



This menu is not available when **SAMSUNG MAGICAngle** is enabled.

4.1.1 Configuring SAMSUNG MAGIC Color

- 1 Press any button on the front of the product to display the Key Guide. Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to **COLOR** and press [↵] on the product.
- 3 Press [▲/▼] to move to **SAMSUNG MAGICColor** and press [↵] on the product. The following screen will appear.



- **Off**: Disable **SAMSUNG MAGICColor**.
 - **Demo**: Compare normal screen mode with **SAMSUNG MAGICColor** mode.
 - **Full**: Obtain a vivid picture quality for all areas including the flesh colors in the picture.
 - **Intelligent**: Improve the chroma for all areas except the flesh colors in the picture.
- 4 Press [▲/▼] to move to the option you want and press [↵].
 - 5 The selected option will be applied.

4.2 Red

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

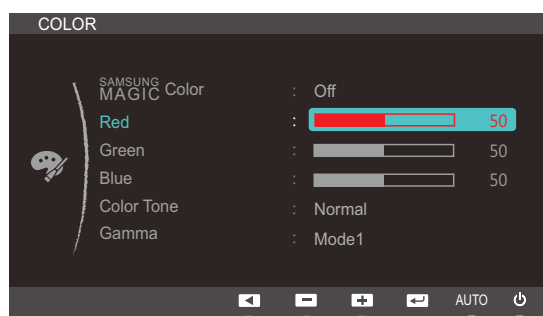
A higher value will increase the intensity of the color.



This menu is not available when **SAMSUNG MAGICColor** is in **Full** or **Intelligent** mode.

4.2.1 Configuring Red

- 1 Press any button on the front of the product to display the Key Guide. Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] 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.

4.3 Green

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

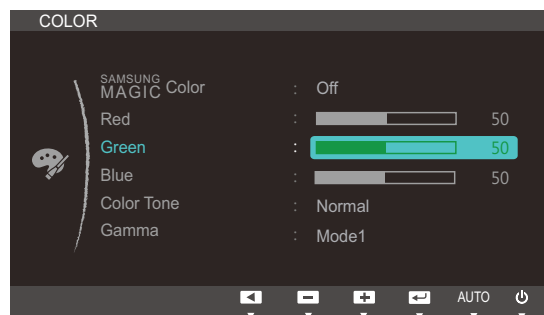
A higher value will increase the intensity of the color.



This menu is not available when **SAMSUNG MAGICColor** is in **Full** or **Intelligent** mode.

4.3.1 Configuring Green

- 1 Press any button on the front of the product to display the Key Guide. Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to **COLOR** and press [↔] 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.

4.4 Blue

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

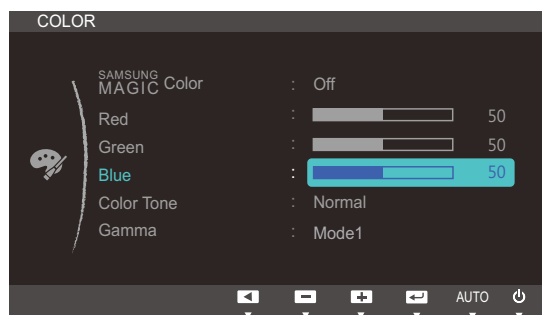
A higher value will increase the intensity of the color.



This menu is not available when **SAMSUNG MAGICColor** is in **Full** or **Intelligent** mode.

4.4.1 Configuring Blue

- 1 Press any button on the front of the product to display the Key Guide. Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] 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.

4.5 Color Tone

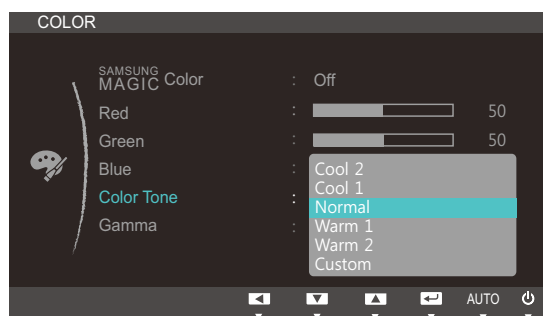
Adjust the general color tone of the picture.



- This menu is not available when **SAMSUNG MAGIC Color** is in **Full** or **Intelligent** mode.
- This menu is not available when **SAMSUNG MAGIC Angle** is enabled.

4.5.1 Configuring the Color Tone Settings

- 1 Press any button on the front of the product to display the Key Guide. Next, press **[MENU]** to display the corresponding menu screen.
- 2 Press **[▲/▼]** 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.
- 4 Press **[▲/▼]** to move to the option you want and press **[↔]**.
 - 5 The selected option will be applied.

4.6 Gamma

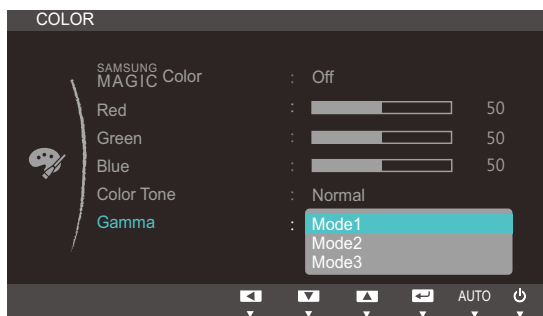
Adjust the mid-range brightness (Gamma) of the picture.



This menu is not available when **SAMSUNG MAGIC Angle** is enabled.

4.6.1 Configuring Gamma

- 1 Press any button on the front of the product to display the Key Guide. Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] 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.

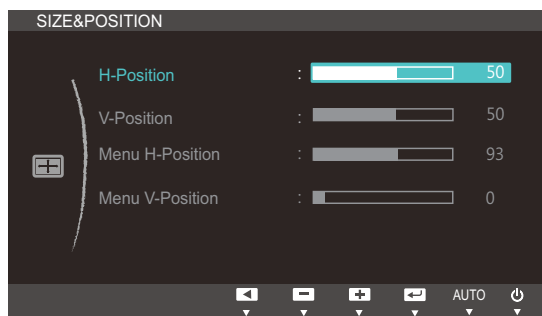
5.1 H-Position & V-Position

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

V-Position: Move the screen up or down.

5.1.1 Configuring H-Position & V-Position

- 1 Press any button on the front of the product to display the Key Guide. Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to **SIZE&POSITION** 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**.

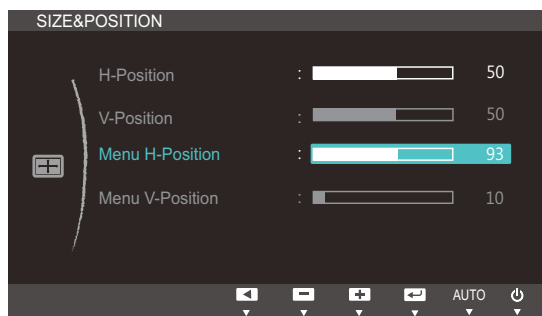
5.2 Menu H-Position & Menu V-Position

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

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

5.2.1 Configuring Menu H-Position & Menu V-Position

- 1 Press any button on the front of the product to display the Key Guide. Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to **SIZE&POSITION** and press [↔] on the product.
- 3 Press [▲/▼] to move to **Menu H-Position** or **Menu V-Position**, and press [↔]. The following screen will appear.



- 4 Press [▲/▼] to configure **Menu H-Position** or **Menu V-Position**.

6.1 Reset

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

6.1.1 Initializing Settings (Reset)

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

6.2 Language

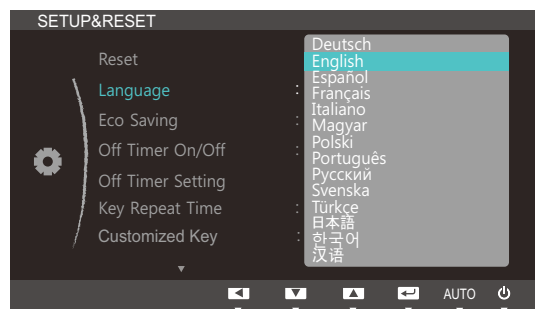
Set the menu language.



- 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.

6.2.1 Changing the Language

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

6.3 Eco Saving

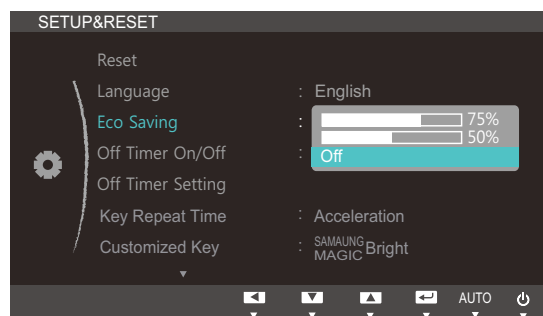
The **Eco Saving** function reduces power consumption by controlling the electric current used by the monitor panel.



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

6.3.1 Configuring Eco Saving

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



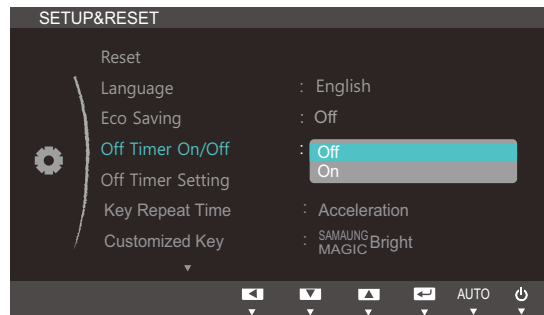
- **75%** : Change the monitor power consumption to 75% of the default level.
 - **50%** : Change the monitor power consumption to 50% of the default level.
 - **Off**: Deactivate the **Eco Saving** function.
- 4 Press [▲/▼] to move to the option you want and press [↩].
 - 5 The selected option will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

6.4 Off Timer On/Off

You can set the product to automatically turn off.

6.4.1 Configuring Off Timer On/Off

- 1 Press any button on the front of the product to display the Key Guide. Next, press [MENU] to display the corresponding menu screen.
- 2 Press [▲/▼] to move to **SETUP&RESET** and press [↵] on the product.
- 3 Press [▲/▼] to move to **Off Timer On/Off** 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.

6.5 Off Timer Setting

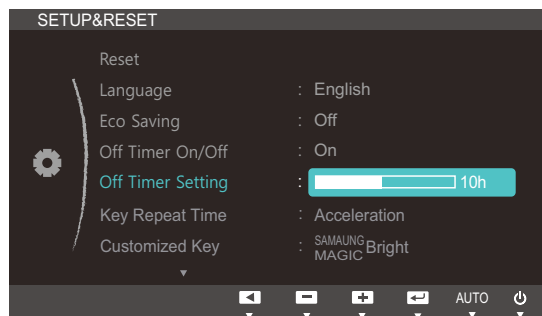
The off timer can be set within a range of 1 to 23 hours. The product will automatically power off after the specified number of hours.



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

6.5.1 Configuring Off Timer Setting

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



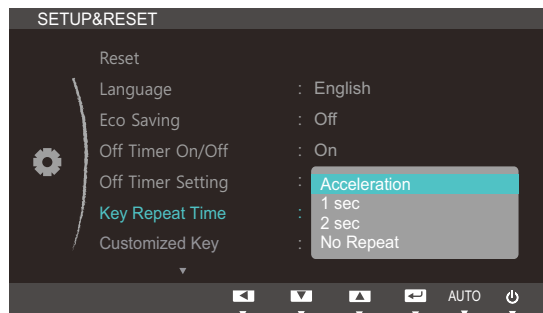
- 4 Press [▲/▼] to configure **Off Timer Setting**.

6.6 Key Repeat Time

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

6.6.1 Configuring Key Repeat Time

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



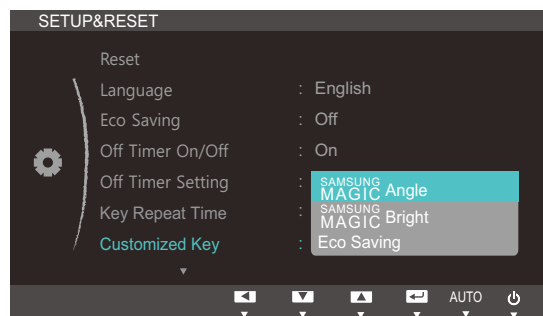
- **Acceleration**, **1 sec**, or **2 sec** can be selected. If **No Repeat** is selected, a command responds only once when a button is pressed.
- 4 Press [▲/▼] to move to the option you want and press [⏏].
 - 5 The selected option will be applied.

6.7 Customized Key

You can customize **Customized Key** as follows.

6.7.1 Configuring Customized Key

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



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

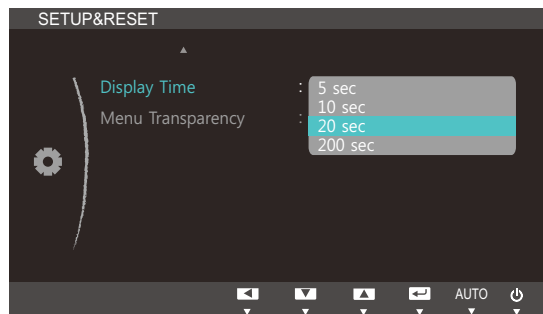
6.8 Display Time

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.

6.8.1 Configuring Display Time

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



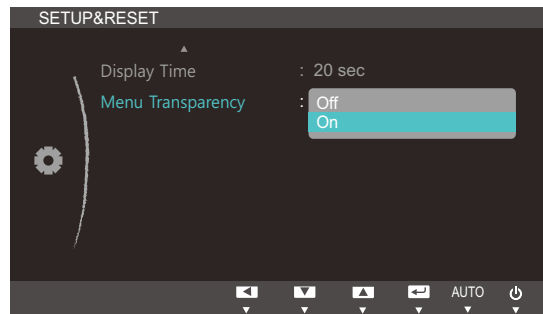
- 4 Press [▲/▼] to move to the option you want and press [↩].
- 5 The selected option will be applied.

6.9 Menu Transparency

Set the transparency for the menu windows:

6.9.1 Changing Menu Transparency

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



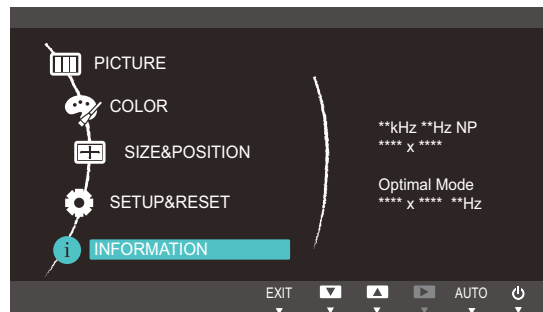
- 4 Press [▲/▼] to move to the option you want and press [↵].
- 5 The selected option will be applied.

7.1 INFORMATION

View the current input source, frequency and resolution.

7.1.1 Displaying INFORMATION

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



The displayed menu items may vary depending on the model.

8.1 Requirements Before Contacting Samsung Customer Service Center

8.1.1 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 PC or DVR, perform a self-diagnosis test.

- 1 Power off both the PC/DVR 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.

8.1.2 Checking the Resolution and Frequency

For a mode that exceeds the supported resolution (refer to "9.3 Standard Signal Mode Table"), the message "**Not Optimum Mode**" will appear for a short time.

8.1.3 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 Connections")
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 Connections")
The message " Check Signal Cable " appears.	Check that the cable is properly connected to the product. (Refer to "2.3 Connections")
	Check that the device connected to the product is powered on.

Screen issue	
"Not Optimum Mode" is displayed.	This message appears if 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 62).
The images on the screen look distorted.	Check the cable connection to the product (Refer to "2.3 Connections")
The screen is not clear. The screen is blurry.	Adjust Coarse (page 35) and Fine (page 36).
	Remove any accessories (video extension cable, etc.) and try again.
	Set the resolution and frequency to the recommended level. (Refer to "9.1 General")
The screen appears unstable and shaky.	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 62) in this manual and the INFORMATION menu on the product.
There are shadows or ghost images left on the screen.	
The screen is too bright. The screen is too dark.	Adjust Brightness (page 30) and Contrast (page 31).
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. (Refer to "Configuring Tint")
There is no image on the screen and the power LED blinks every 0.5 to 1 second.	The product is operating in power-saving mode.
	Press any key on the keyboard or move the mouse to return to normal operating mode.
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.

8.2 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.

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.
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.



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

9.1 General

Model Name		SMT-1914
Panel	Size	19.0 Inches (48 cm)
	Display area	376.32 mm (H) x 301.06 mm (V)
Synchronization	Horizontal Frequency	30 ~ 81 kHz
	Vertical Frequency	56 ~ 75 Hz
Display Color		16.7M
Resolution	Optimum Resolution	1280x1024@60Hz
	Maximum Resolution	1280x1024@75Hz
Maximum Pixel Clock		137MHz (Analog)
Power Supply		This product uses 100 to 240V. Refer to the label at the back of the product as the standard voltage can vary in different countries.
Signal connectors		Only VGA
Dimensions (W x H x D) / Weight	Without Stand	412 x 347 x 59.4 mm
	With Stand	412 x 406.5 x 217.4 mm / 4.92 kg
VESA Mounting Interface		100 mm x 100 mm 3.9 Inches x 3.9 Inches

Model Name		SMT-1914
Environmental considerations	Operating	Temperature : 32°F – 104°F (0°C – 40°C) Humidity : 20 % – 90 %, non-condensing
	Storage	Temperature : -4°F – 113°F (-20°C – 45°C) Humidity : 5 % – 95 %, non-condensing
Plug-and-Play		This monitor can be installed and used with any Plug-and-Play compatible systems. Two-way data exchange between the monitor and PC system optimizes the monitor settings. Monitor installation takes place automatically. However, you can customize the installation settings if desired.
Panel Dots (Pixels)		Due to the nature of the manufacturing of this product, approximately 1 pixel per million (1ppm) may be brighter or darker on the LED panel. This does not affect product performance.



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



This device is a Class A digital apparatus.

9.2 PowerSaver

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

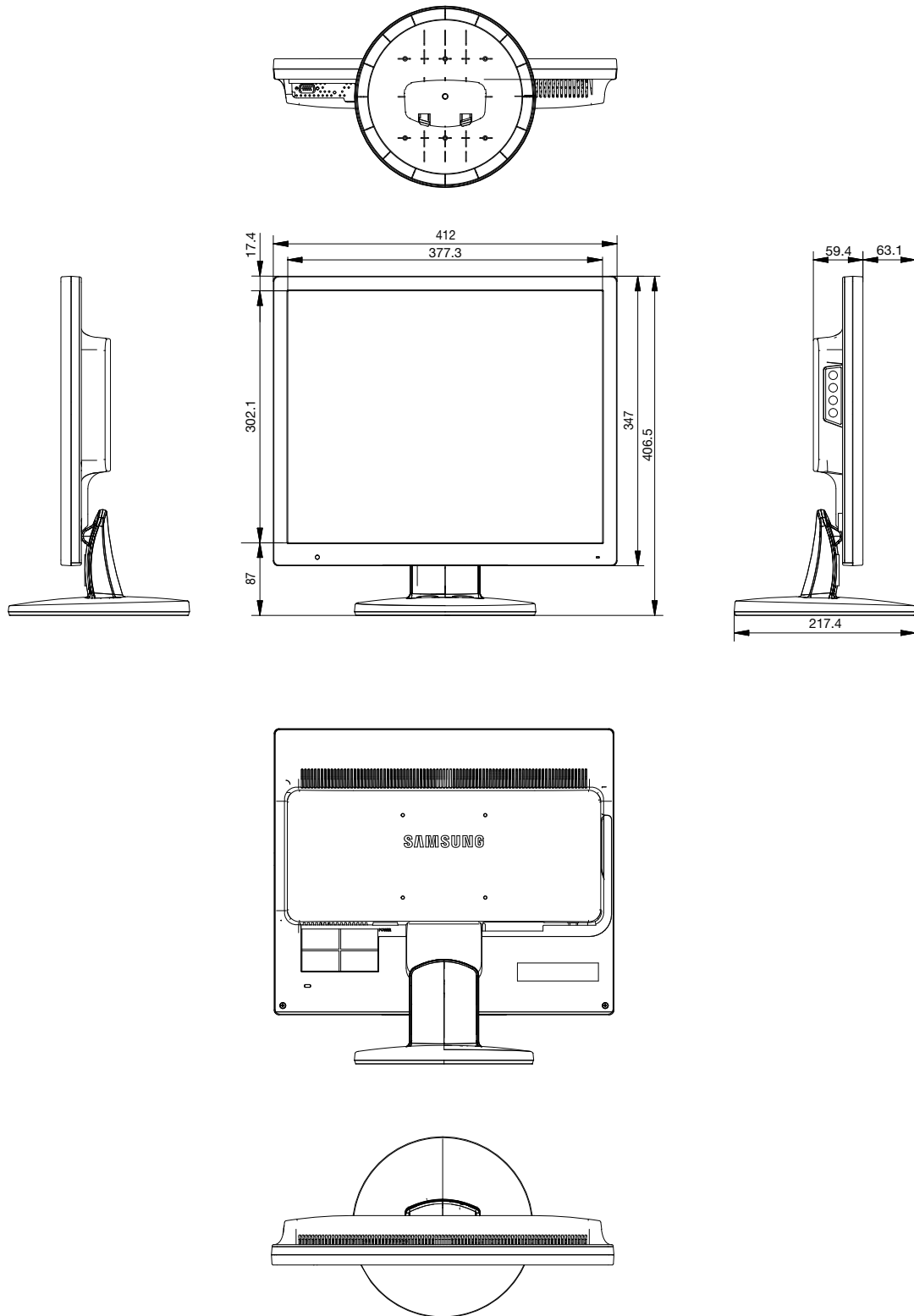
SMT-1914

PowerSaver	Normal operation mode	Power saving mode	Power off (Power button)
Power Indicator	On	Blinking	Off
Power Consumption	23 watts	Typical 0.33 watts	Typical 0.33 watts



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

9.3 Dimensions



9.4 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 LED monitor. If the LED monitor does not support 85Hz, change the vertical frequency to 60Hz using the CDT monitor before you exchange it with the LED 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.

SMT-1914

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
IBM, 640 x 480	31.469	59.940	25.175	-/-
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	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	-/-

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1152 x 864	67.500	75.000	108.000	+/+
VESA, 1280 x 960	60.000	60.000	108.000	+/+
VESA, 1280 x 1024	63.981	60.020	108.000	+/+
VESA, 1280 x 1024	79.976	75.025	135.000	+/+



- Horizontal Frequency

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

- Vertical Frequency

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

Correct Disposal

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



(Applicable in the European Union and other European 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 configure on-screen settings to optimize the picture quality as required. It allows you to change the screen brightness, tint, size and many other settings using menus displayed on the screen.

Gamma

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

Grey scale

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

Scanning rate

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

Horizontal Frequency

Characters or images displayed on the monitor screen consist of numerous dots (pixels). Pixels are transmitted in horizontal lines, which are then arranged vertically to create an image. The horizontal frequency is measured in kHz and represents how many times horizontal lines per second are transmitted and displayed on the monitor screen. A horizontal frequency of 85 means that the horizontal lines that make up an image are transmitted 85 000 times per second, and 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 1280 x 1024 consists of 1,280 horizontal pixels (horizontal frequency) and 1,024 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.

