User manual

SyncMaster
S24B750V
S24B750H
S27B750V
S27B750H

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.

SAMSUNG

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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.

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.

Cleaning

Cleaning

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

Take the following steps when cleaning.
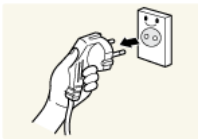
1. Power off the monitor and computer.
2. Disconnect the power cord from the monitor.

> Hold the power cable by the plug and do not touch the cable with wet hands. Otherwise, an electric shock may result.
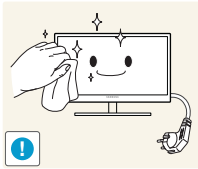
3. Wipe the monitor screen using a clean, soft and dry cloth.

- 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.
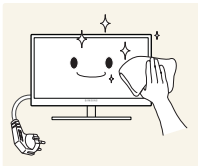
4. Wet a soft and dry cloth in water and wring thoroughly to clean the exterior of the monitor.
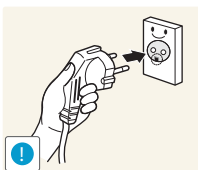
5. Connect the power cord to the product after cleaning the product.
6. Power on the monitor and computer.

Securing the Installation Space

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

> The exterior may differ depending on the product.
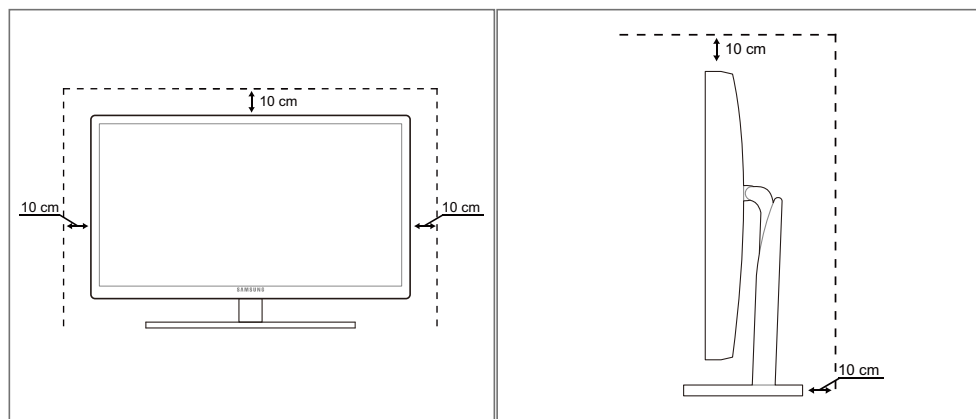
Precautions for storage

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

> Be sure to contact Samsung Customer Service Center (page 84) if the inside of the monitor needs cleaning. (Service fee will be charged.)

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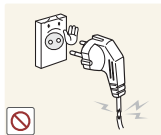
Do not use a damaged power cord or plug, or a loose power socket.

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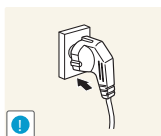
Insert the power plug all the way in so it is not loose.

- An unstable connection may cause a fire.
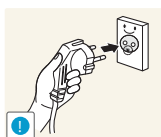
Ensure you connect the power plug to a grounded power socket. (type 1 insulated devices only).

- An electric shock or injury may result.
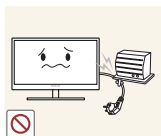
Do not bend or pull the power cord with force. Do not weigh the power cord down with a heavy object.

- 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.

Caution

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

● The product may become damaged by an electric shock.
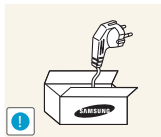
Do not use the power cord for products other than authorized products supplied by Samsung.

● An electric shock or fire may result.
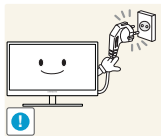
Keep the power socket where the power cord is connected unobstructed.

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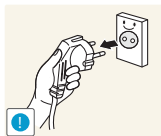
Hold the plug when disconnecting the power cord from the power socket.

● 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.

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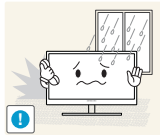
Do not install the product in a vehicle or a place exposed to dust, moisture (water drips, etc.), oil, or smoke.

- An electric shock or fire may result.
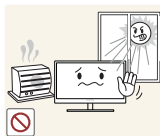
Do not expose the product to direct sunlight, heat, or a hot object such as a stove.

- Otherwise, the product lifespan may be reduced, or a fire may result.
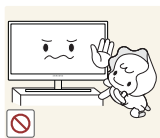
Do not install the product within the reach of young children.

- 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
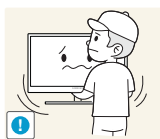
Take care not to drop the product when moving it.

- Otherwise, product failure or personal injury may result.
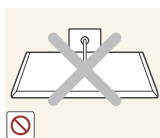
Do not set down the product on its front.

- 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.
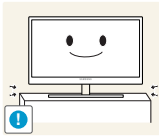
Put down the product carefully.

- 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 84) before installation if you want to install the product at such a place.

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 (page 84) for repair.
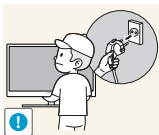
Before moving the product, turn off the power switch and disconnect the power cable and all other connected cables.

- Otherwise, the power cord may be damaged and a fire or electric shock may result.
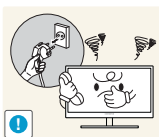
If the product generates a strange noise, a burning smell, or smoke, remove the power cord immediately and contact Samsung Customer Service Center (page 84).

- An electric shock or fire may result.
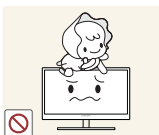
Do not let children hang from the product or climb on top of it.

- The product may fall, and your child may become injured or seriously harmed.
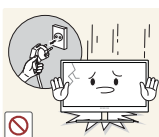
If the product falls or the exterior is damaged, power off the product, remove the power cord, and contact Samsung Customer Service Center (page 84).

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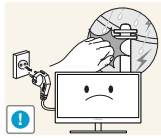
During a lightning or thunderstorm, power off the product and remove the power cable.

- An electric shock or fire may result.

Do not drop objects on the product or apply impact.

- An electric shock or fire may result.
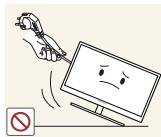
Do not move the product by pulling the power cord or any cable.

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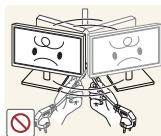
Do not lift or move the product by pulling the power cord or any cable.

- Otherwise, the cable may be damaged and product failure, an electric shock or fire may result.
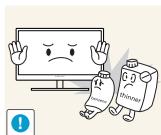
Do not use or keep combustible spray or an inflammable substance near the product.

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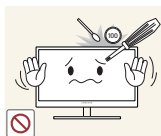
Do not insert a metallic object (a chopstick, coin, hair pin, etc.) or inflammable object (paper, match, etc.) into the vent or ports of the product.

- 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 84).
- Product failure, an electric shock or fire may result.
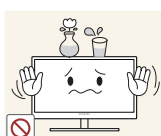
Do not place objects containing liquid (vases, pots, bottles, etc) or metallic objects on top of the product.

- 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 84).
- Product failure, an electric shock or fire may result.

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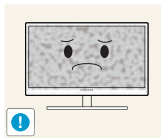
Leaving the screen fixed on a stationary image for an extended period of time may cause afterimage burn-in or defective pixels.

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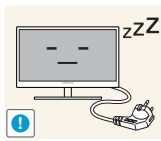
Disconnect the power cord from the power socket if you do not plan on using the product for an extended period of time (vacation, etc.).

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

Use the product at the recommended resolution and frequency.

- Your eyesight may deteriorate.
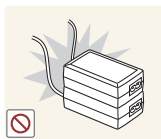
Do not put DC power adapters together.

- 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 adapter or get the adapter 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.
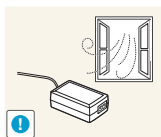
Keep the DC power adapter in a well-ventilated area.
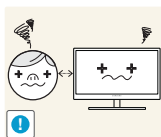
Looking at the screen too close for an extended period of time can deteriorate your eyesight.
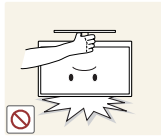
Do not hold the monitor upside-down or move it by holding the stand.

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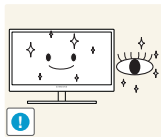
Rest your eyes for more than 5 minutes for every 1 hour of product use.

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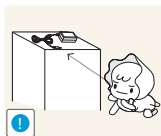
Store the small accessories used with the product out of reach of children.

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.
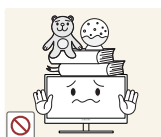
Do not place heavy objects on the product.

- Product failure or personal injure may result.
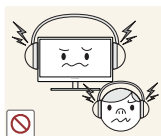
When using headphones or earphones, do not turn the volume too high.

- Having the sound too loud may damage your hearing.
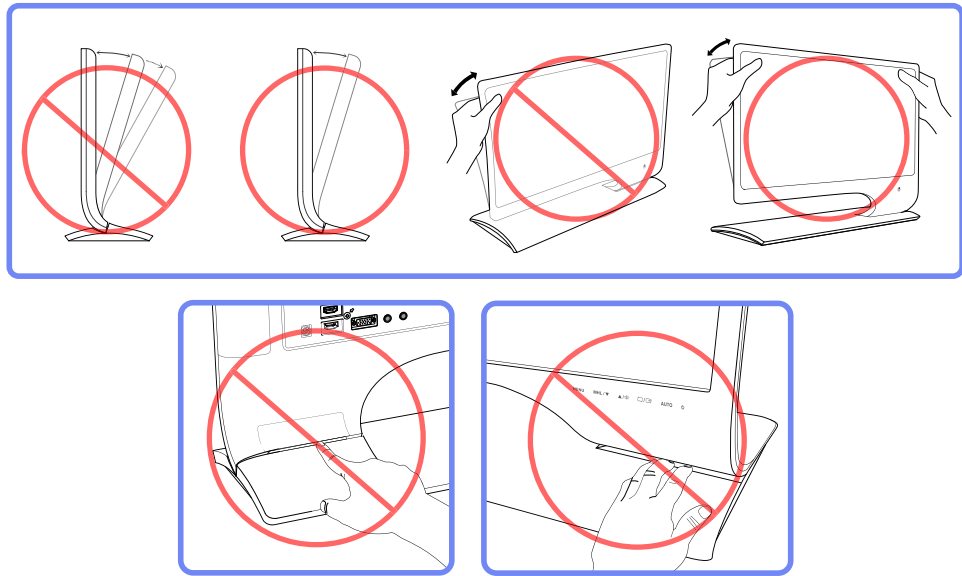
 Caution

 Exercise caution when adjusting the angle of the product.
- Your fingers may get caught and injured when folding the product. Ensure you take extra caution.

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 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.
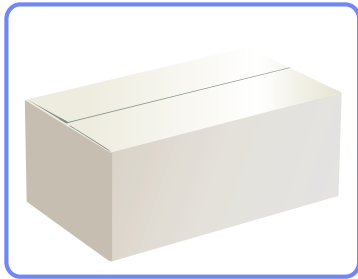
2 Remove the styrofoam from the product.
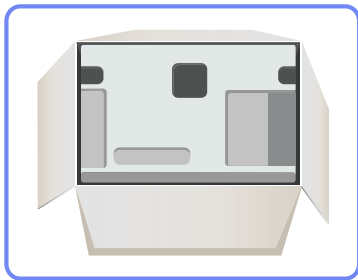
3 Check the components and remove the styrofoam and plastic bag.

> This image is for reference only.
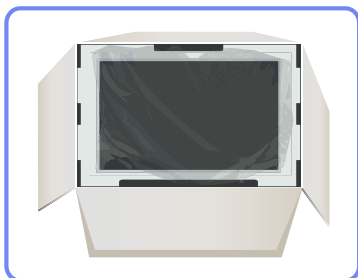
4 Store the box in a dry area so that it can be used when moving the product in the future.

1 Preparations

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
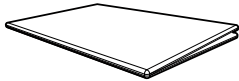
Quick setup guide	Warranty card (Not available in some locations)	User manual
Power cable	DC power adapter	D-SUB cable (optional)
Cleaning cloth	HDMI cable (optional)	MHL Cable (S24B750V / S27B750V)
Stereo Cable (S24B750V / S27B750V)	Cable Holder	
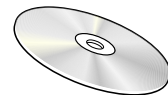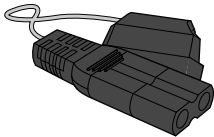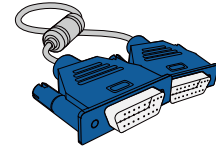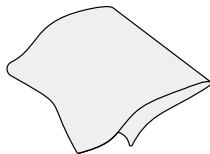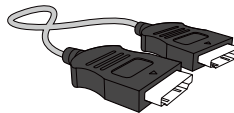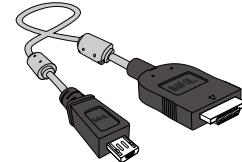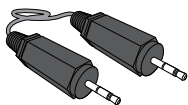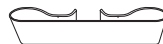
> Components may vary depending on the country.

Items sold separately

> The following items can be purchased at your nearest retailer.

HDMI-DVI cable

Preparations
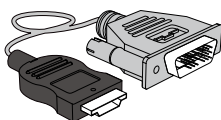
1.2   Parts

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.
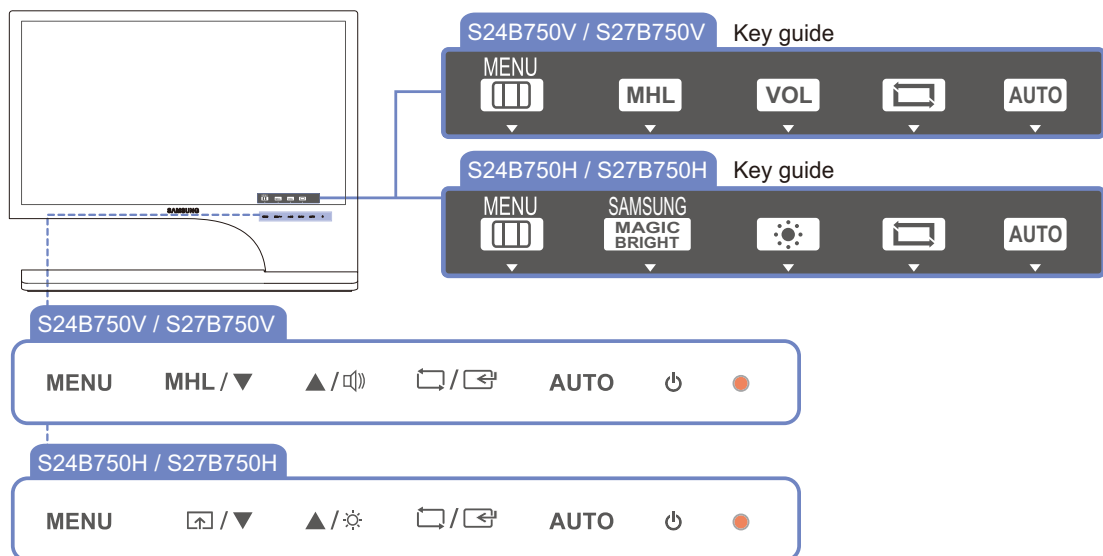
 This is a touch-type button. Tap the button lightly with a finger.

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, $^{SAMSUNG}_{MAGIC}$Bright can be adjusted, and INFORMATION can be viewed. • The Customized Key function can be used by pressing the [ ](S24B750H / S27B750H) button. (The Customized Key function specified before the OSD control was locked is available even when the OSD control is locked.)
MHL (S24B750V / S27B750V)	Pressing the [**MHL**] (S24B750V / S27B750V) button when your smartphone is connected to [HDMI IN 2 / MHL] on the product enables the **MHL** function, which allows you to import data from the smartphone to the product. For further details on the **MHL** function, refer to " Using "MHL(Mobile High-Definition Link)"".
(S24B750H / S27B750H)	When the Key guide is displayed, the [ ] button activates the function assigned to Customized Key. Configure Customized Key and press [ ]. The following options will be enabled. $^{SAMSUNG}_{MAGIC}$Angle - $^{SAMSUNG}_{MAGIC}$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.
(S24B750V / S27B750V)	When the Key guide is displayed, the [ ] button activates the function assigned to Volume.
(S24B750H / S27B750H)	When the Key guide is displayed, the [ ] button activates the function assigned to Brightness.

Icons	Description
/	Confirm a menu selection. Pressing the [/] button when the OSD menu is not displayed will change the input source (**Analog**/**HDMI IN 1(DVI)**/**HDMI IN 2/MHL**) (S24B750V / S27B750V) (**Analog**/**HDMI IN**) (S24B750H / S27B750H). 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.
	Turn the screen on or off.
 (Power lamp)	The power indicator will be lit when the product is operating normally. To reduce power consumption, it is best to remove the power cable when you will not be using the product for an extended period of time.
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.

Preparations

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.
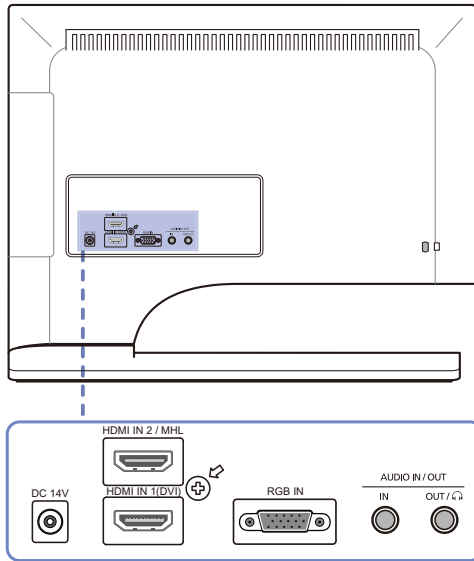
S24B750V / S27B750V   S24B750H / S27B750H
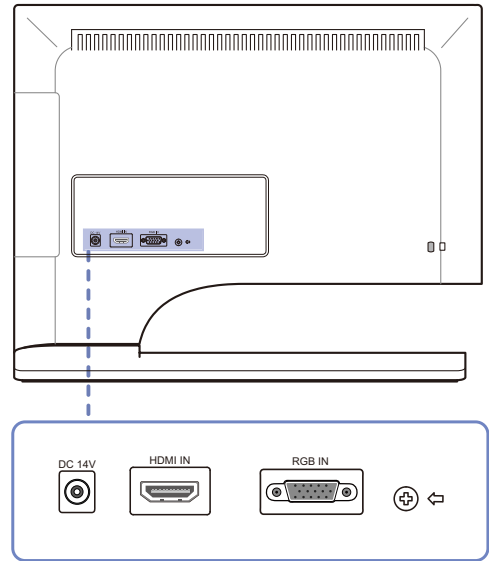
Port	Ports
	Connect to the DC power adapter.
HDMI IN 1(DVI)	Connect to a source device using an HDMI cable.
HDMI IN 2 / MHL (S24B750V / S27B750V)	Connect to a source device that has the **MHL** function using the **MHL** cable. Connect to a source device using an HDMI cable.
	Connect to a PC using the D-SUB cable.
IN (S24B750V / S27B750V)	Connect to an audio-input source using an stereo cable.
OUT / (S24B750V / S27B750V)	Connect to an audio output device such as headphones.

1.2.3 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.
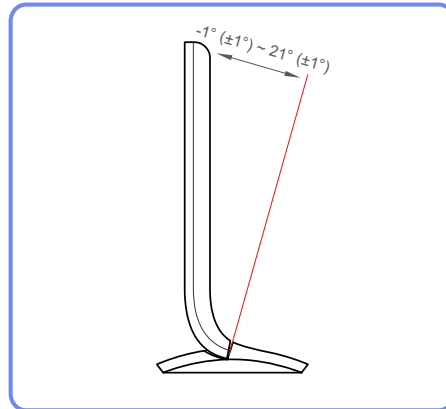
- You can adjust the tilt of your monitor.
- Hold the lower part of the product and adjust the tilt carefully.

1.2.4 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.
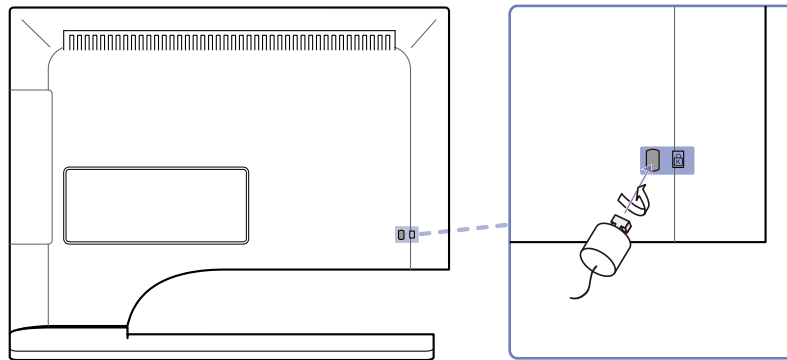
> The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.

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 Using "MHL(Mobile High-Definition Link)"

The "MHL" function is available on the S24B750V / S27B750V model only.

2.1 "MHL" (Mobile High-Definition Link)

This feature allows you to enjoy videos and photos (imported from a connected mobile device that supports **MHL**) on the screen of the product.

S24B750V / S27B750V

MHL
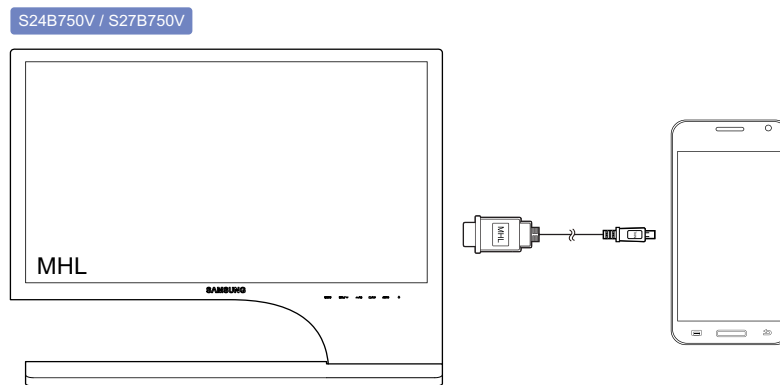
- To use the **MHL** function, you need an **MHL**-certified mobile device. You can check if your mobile device is **MHL** certified on the device manufacturer's website. To find a list of **MHL**-certified devices, visit the official **MHL** website (http://www.mhlconsortium.org).
- To use the **MHL** function, the latest version of software must be installed on the mobile device.
- On some mobile devices, the **MHL** function may not be available depending on the device's performance or functionality.
- Since the display size of the product is larger than those of mobile devices, the picture quality may degrade.
- This product is officially **MHL**-certified. If you encounter any problem when using the MHL function, please contact the manufacturer of the mobile device.
- The picture quality may degrade when content (imported from the mobile device) with a low resolution is played on the product.

2 Using "MHL(Mobile High-Definition Link)"

2.1.1 Using "MHL"

1 Connect the USB port on the mobile device to the [HDMI IN 2 / MHL] port on the product using the **MHL** cable.
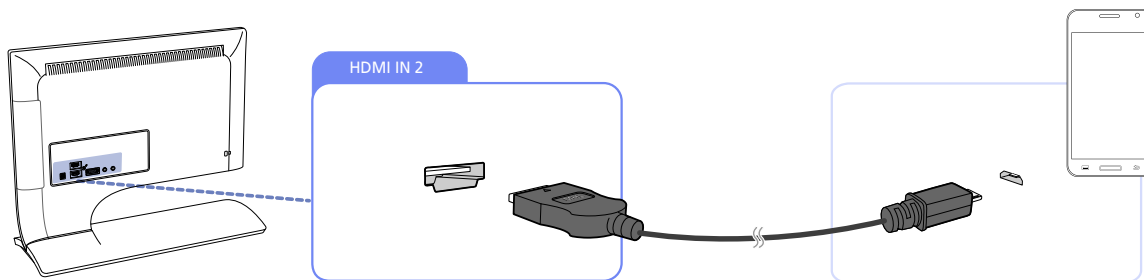
HDMI IN 2

- When the **MHL** cable is used, [HDMI IN 2 / MHL] is the only port on the product that supports the **MHL** function.
- A mobile device should be purchased separately.

2 Connect the DC power adapter to the product and a power outlet.
(For details, refer to "3.2 Connecting the Power".)

3 Press the [**MHL**] button to activate **MHL** mode.

S24B750V / S27B750V

MENU   MHL / ▼   ▲ / 🔊   ⬜/⬜   AUTO   ⏻   ●

4 If the following message appears, **MHL** mode is activated. After about 3 seconds, the **MHL** screen will be displayed.
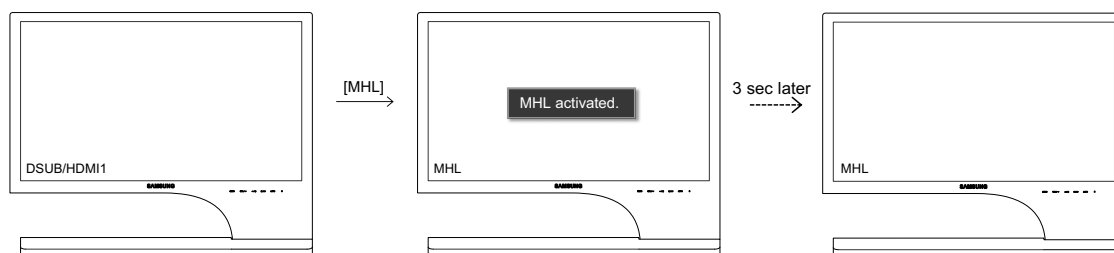
DSUB/HDMI1   [MHL]→   MHL activated.   MHL   3 sec later - - - - - - →   MHL

The indicated time "3 sec later" may vary depending on the mobile device.

2 Using "MHL(Mobile High-Definition Link)"

When the mobile device is in power-saving mode

When the mobile device is in power-saving mode, the following message will appear in place of the MHL screen. To display the **MHL** screen, deactivate power-saving mode.

MHL device is in sleep mode.
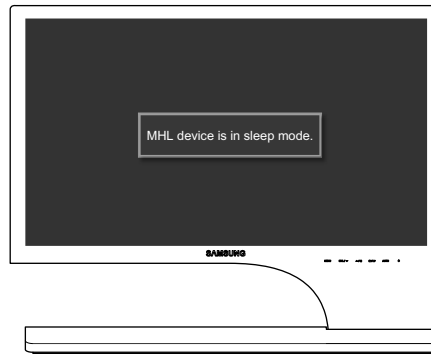
When the mobile device is not connected or does not support MHL

- When the mobile device is not connected to the product or does not support the **MHL** function, the following message will appear.
- If **MHL** mode is not activated, check the connection of the mobile device.
- If **MHL** mode is not activated, check if the mobile device supports **MHL**.
- If **MHL** mode is not activated even though the mobile device supports **MHL**, update the firmware of the mobile device to the latest version.

MHL device is not connected or the device doesn't support MHL.

MHL

3 sec later
------->

Check Signal Cable
HDMI2/MHL

MHL

The indicated time "3 sec later" may vary depending on the mobile device.

2

Using "MHL(Mobile High-Definition Link)"
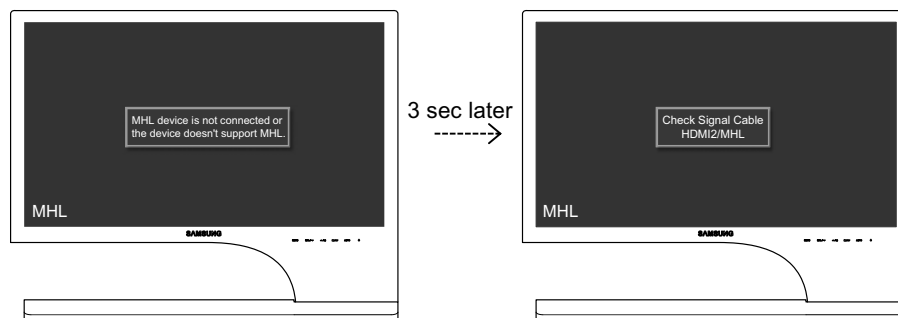
2.1.2 Disabling "MHL"

Disabling MHL by using the [MHL] button

When **MHL** is active, press the [**MHL**] button. The **MHL** function will be disabled.
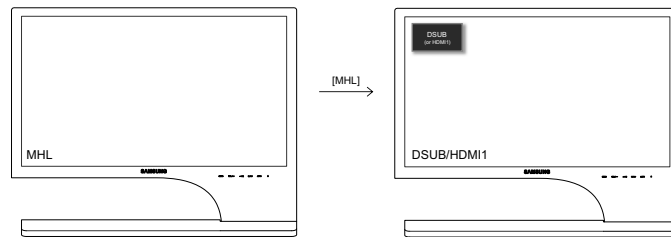
> The input source changes automatically only when a cable is connected to a port other than [HDMI IN 2 / MHL].
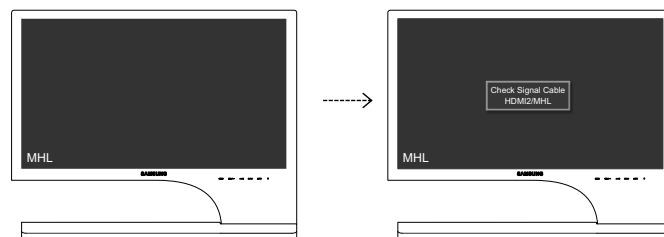
When the cable is disconnected or the mobile device is powered off

If the **MHL** cable is disconnected or the mobile device is powered off when **MHL** is active, the **MHL** function will be disabled.
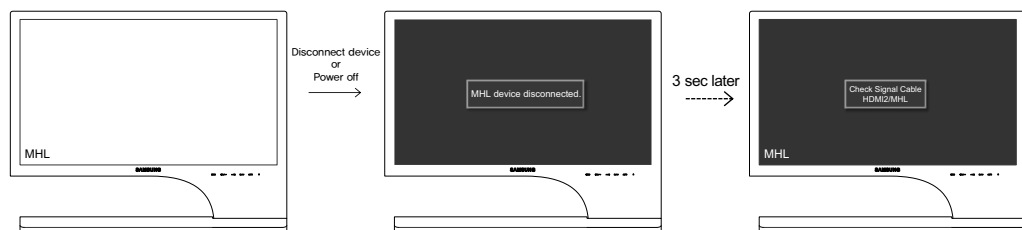
> - If the **MHL** cable is disconnected, the product will display the message **Check Signal Cable** and remain in **MHL** mode.
> - The indicated time "3 sec later" may vary depending on the mobile device.

3 Connecting and Using a Source Device

3.1 Before Connecting
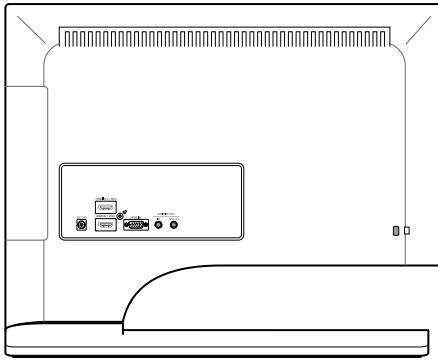
S24B750V / S27B750V   S24B750H / S27B750H
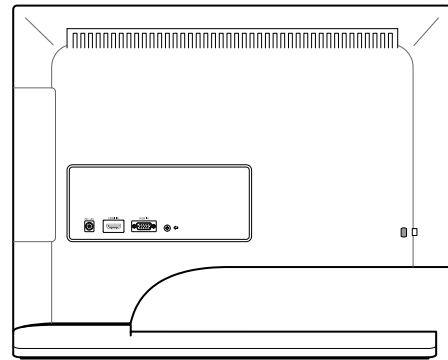
3.1.1 Pre-connection Checkpoints

- 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.

3.2 Connecting the Power

- Connect the power adapter to [DC 14V] on the rear of the product. Connect the power cord to the adapter and wall socket. (The input voltage is switched automatically.)

DC 14V

3 Connecting and Using a Source Device
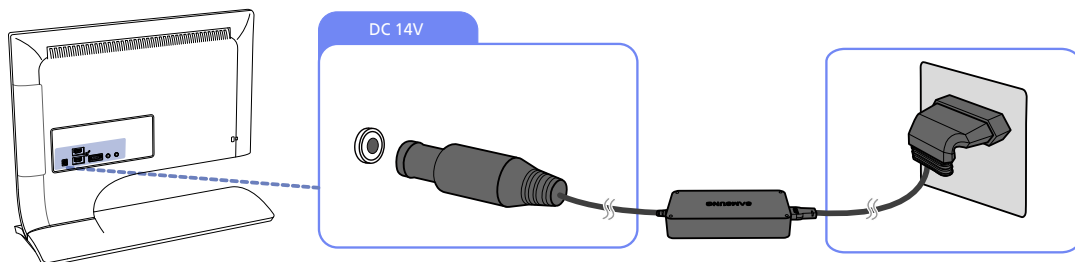
3.3 Connecting and Using a PC

3.3.1 Connecting to a PC

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

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

- Select a connection method suitable for your PC.

> Connecting parts may differ in different products.

Connection Using the D-SUB Cable (Analogue Type)
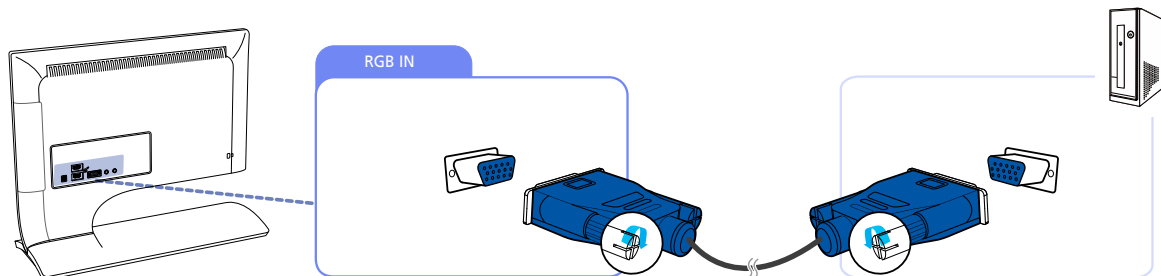
RGB IN

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 "3.2 Connecting the Power".)

3 Press [/] to change the input source to **Analog**.

> - The S24B750H / S27B750H model does not support sound.
> - To enable the sound on an S24B750V / S27B750V model, connect an stereo cable.

Connection Using an HDMI Cable

HDMI IN
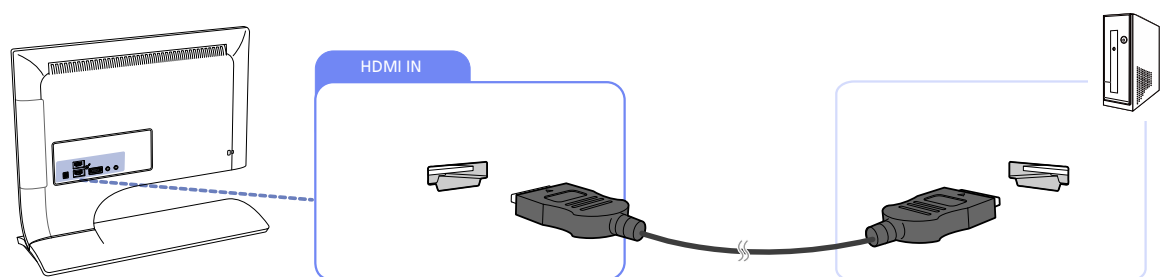
1 Connect the HDMI cable to the HDMI port on the back of the product and the HDMI port on the PC.

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 "3.2 Connecting the Power".)

3 Press the [/] button to change the input source to **HDMI IN 1(DVI)**/**HDMI IN 2/ MHL**(S24B750V / S27B750V) / **HDMI IN**(S24B750H / S27B750H).

Connecting and Using a Source Device

 The S24B750H / S27B750H model does not support sound.

Connection Using an HDMI-DVI Cable
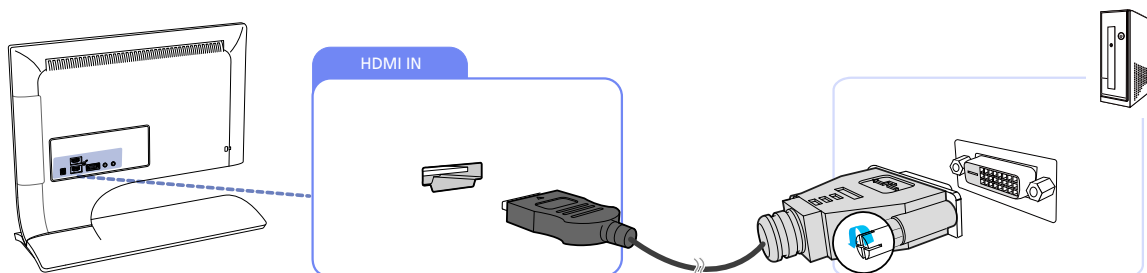
1 Connect the HDMI-DVI cable to the HDMI port on the back of the product and the DVI port on the PC.

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 "3.2 Connecting the Power".)

3 Press the [/] button to change the input source to **HDMI IN 1(DVI)**/**HDMI IN 2/ MHL**(S24B750V / S27B750V) / **HDMI IN**(S24B750H / S27B750H).

S24B750V/S27B750V
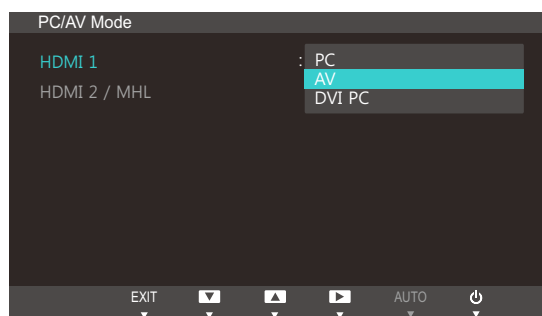
 ● The S24B750H / S27B750H model does not support sound.

   ● To enable the sound on an S24B750V / S27B750V model, connect the stereo cable and select **DVI PC** in PC/AV Mode.

Connecting and Using a Source Device

3.3.2 Connecting to Headphones or Speakers (S24B750V / S27B750V)

AUDIO IN
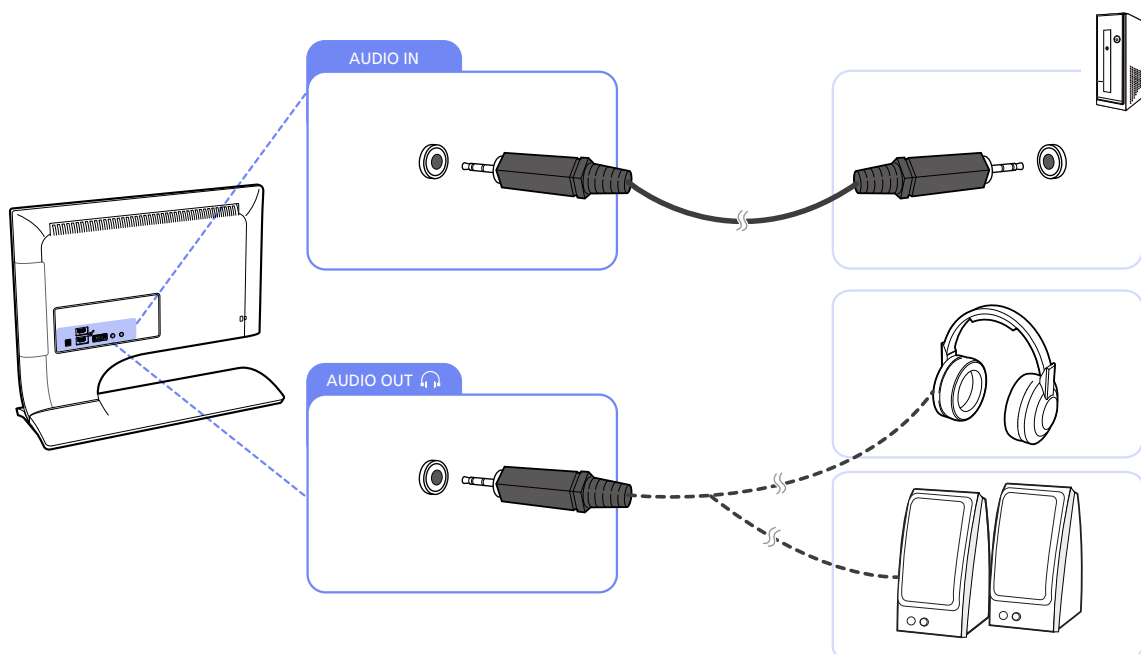
AUDIO OUT

1 Connect an audio output device such as headphones or speakers to [   ] on the product.

> To enable the audio, connect the stereo cable.

Connecting and Using a Source Device

Changing the sound settings on Windows

- Check that the HDMI or stereo cable is properly connected.
- Adjust the sound output port settings according to the conditions where the product is used.

Control Panel → Audio → Speaker → Speaker Setup
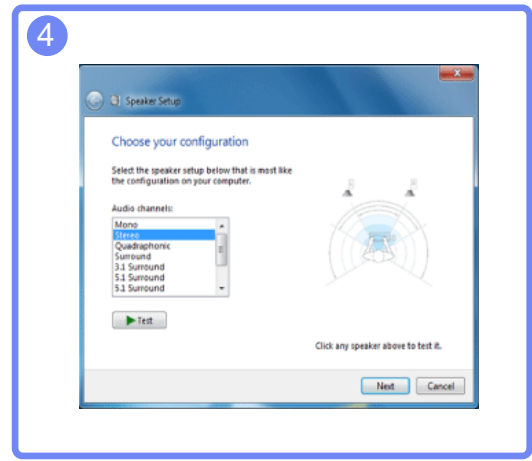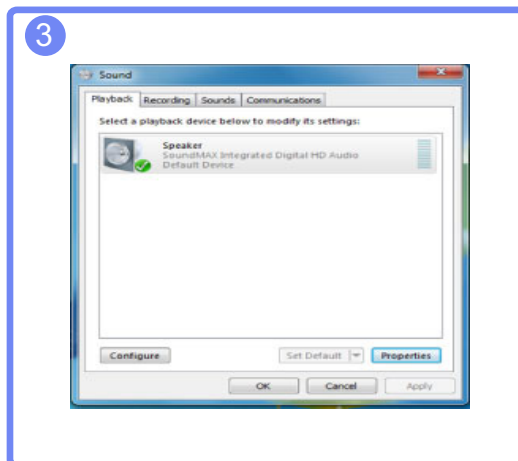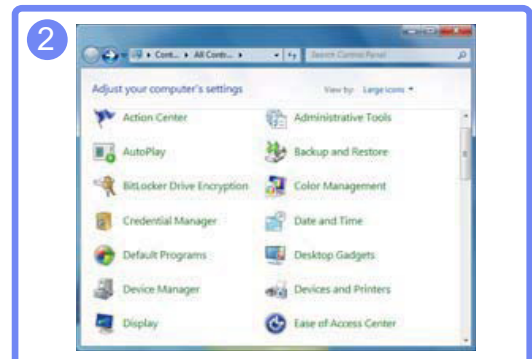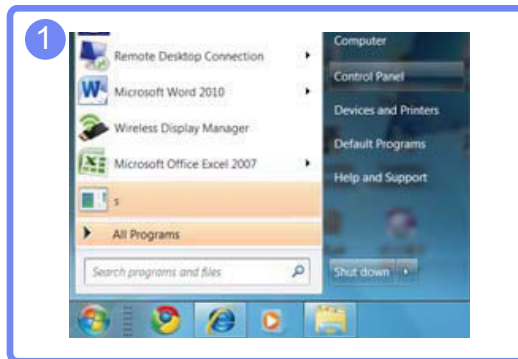
- Click the volume icon [A] on the Windows taskbar to adjust the volume [B].

3

Connecting and Using a Source Device
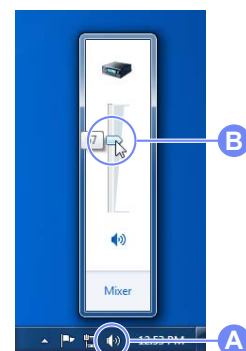
3.3.3   Driver Installation

 - You can set the optimum resolution and frequency for this product by installing the corresponding drivers.
 - An installation driver is contained on the CD supplied with the product.
 - If the file provided is faulty, visit the Samsung homepage (http://www.samsung.com) and download the file.

1 Insert the user manual CD provided with the product into the CD-ROM drive.

2 Click "Windows Driver".

3 Follow the instructions given on the screen to proceed with installation.

4 Select your product model from the list of models.
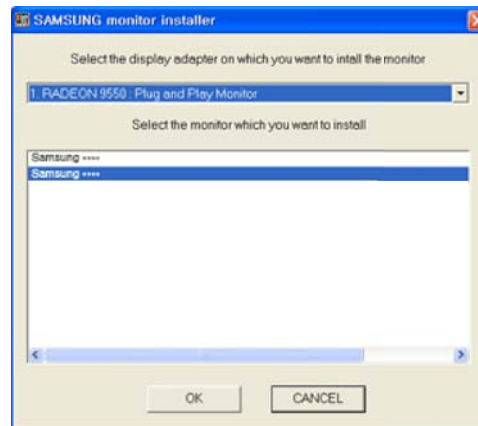
5 Go to Display Properties and check that the resolution and refresh rate are appropriate.

Refer to your Windows OS manual for further details.

3 Connecting and Using a Source Device

3.3.4 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.

Connecting and Using a Source Device

3.3.5 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** → **Display** → **Settings** and change the resolution.

3 **Connecting and Using a Source Device**
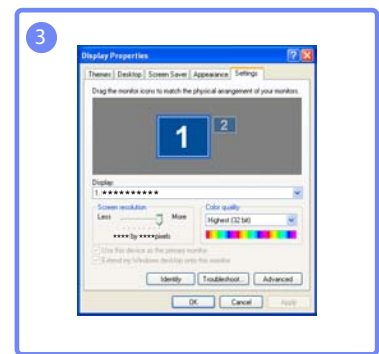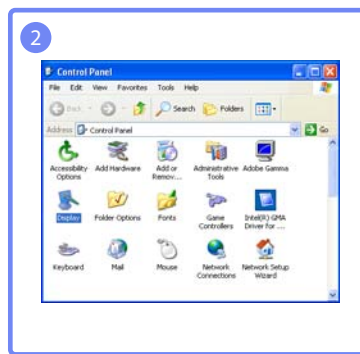
Changing the Resolution on Windows Vista
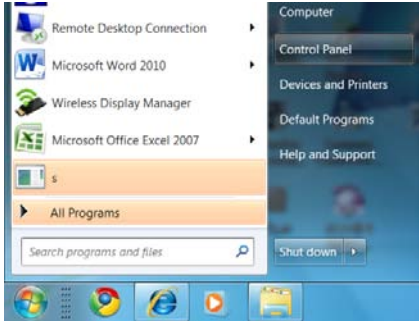
Go to **Control Panel** → **Personalization** → **Display Settings** and change the resolution.

Connecting and Using a Source Device
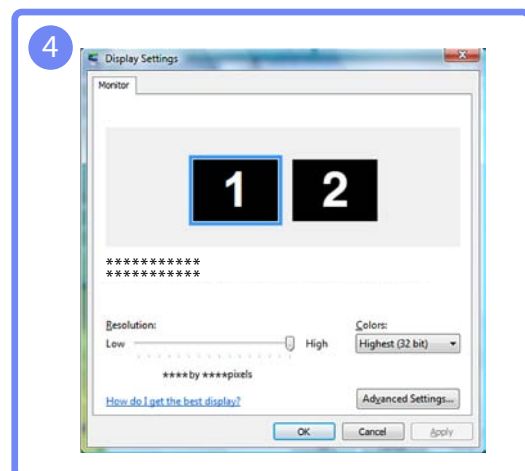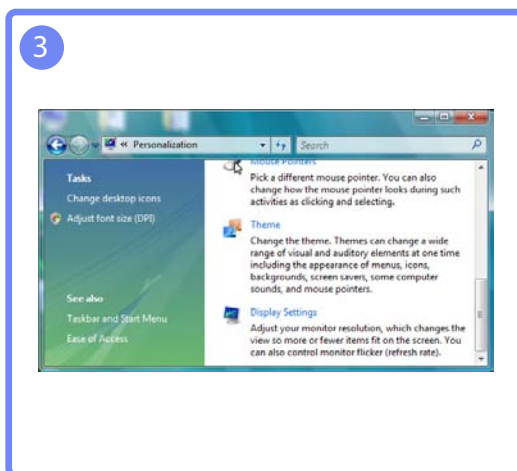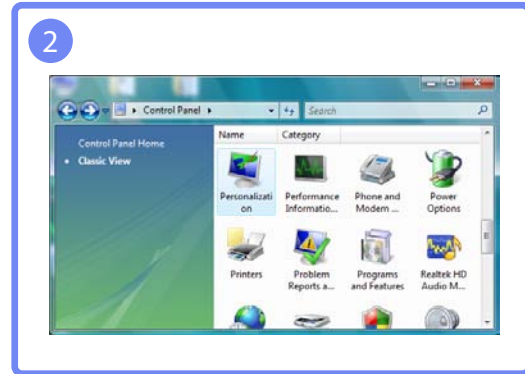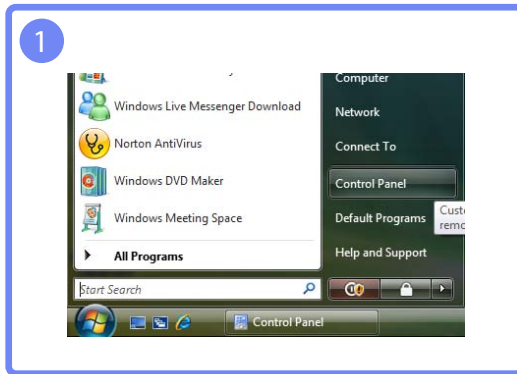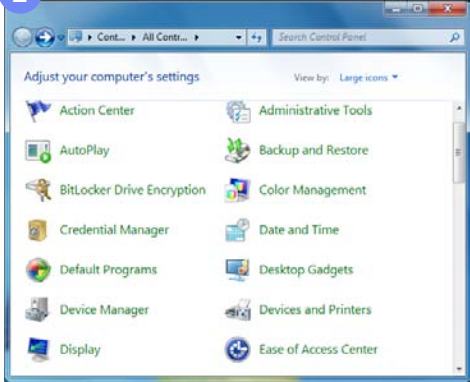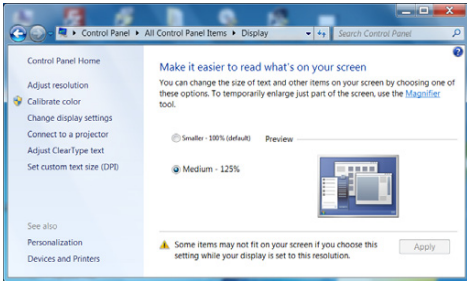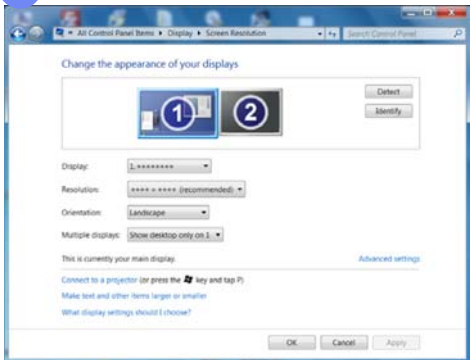
Changing the Resolution on Windows 7

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

Screen Setup

Configure the screen settings such as brightness and color tone.

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 ˢᴬᴹˢᵁᴺᴳ MAGIC Bright is set to **Dynamic Contrast** mode.
 > ● Not available if Eco Saving is set to **On**.

4.1.1   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.

```
PICTURE

  Brightness              :              100
  Contrast                :               75
  Sharpness               :               60
SAMSUNG
MAGIC  Bright             :  Custom
SAMSUNG
MAGIC  Angle              :  Off
  Coarse                  :             1936
  Fine                    :                0
                 ▼
   EXIT    ▼▼    ▲▲    ▶    AUTO    ⏻
```
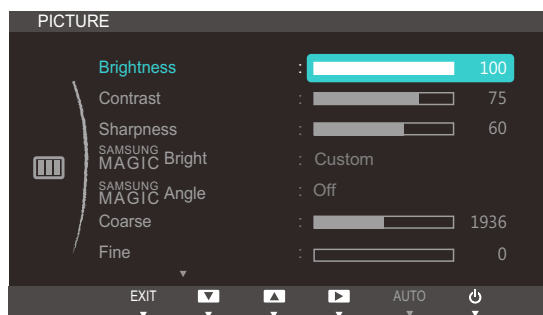
4 Adjust the **Brightness** using the [▲/▼] buttons.

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 menu is not available when ^{SAMSUNG}MAGICBright is in **Cinema** or **Dynamic Contrast** mode.
> - This menu is not available when ^{SAMSUNG}MAGICColor is in **Full** or **Intelligent** mode.

4.2.1   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.

```
PICTURE

    Brightness          :                    100
    Contrast            :                     75
    Sharpness           :                     60
    SAMSUNG
    MAGIC   Bright      :  Custom
    SAMSUNG
    MAGIC   Angle       :  Off
    Coarse              :                   1936
    Fine                :                      0
         ▼
    EXIT    ▼▼    ▲▲    ▶▶    AUTO    ⏻
     ▼       ▼      ▼      ▼     ▼      ▼
```
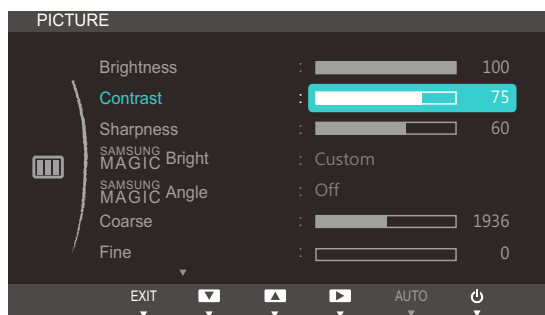
4 Adjust the **Contrast** using the [▲ / ▼] buttons.

4 **Screen Setup**

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 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.

4.3.1   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.

PICTURE		
Brightness	:	100
Contrast	:	75
Sharpness	:	60
SAMSUNG MAGIC Bright	: Custom	
SAMSUNG MAGIC Angle	: Off	
Coarse	:	1936
Fine	:	0
EXIT	AUTO	
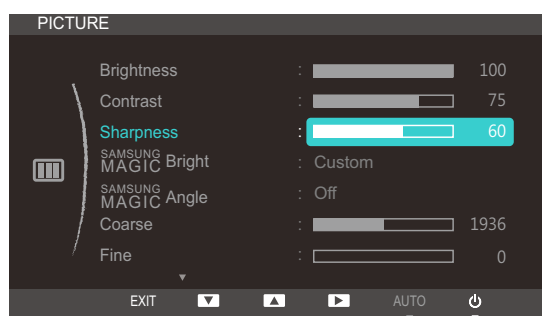
4 Adjust the **Sharpness** using the [/] buttons.

4.4 SAMSUNG MAGIC Bright

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

> - Not available if <u>Eco Saving</u> is set to **On**.
> - This menu is not available when ^{SAMSUNG}MAGIC<u>Angle</u> 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 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.

```
PICTURE

    Brightness              :  �▬▬▬▬▬▬        100
    Contrast                :  ▬▬▬▬▬▬          75
    Sharpness               :  ▬▬▬▬▬           60
    SAMSUNG
 [ III ] MAGIC Bright       :  Custom
    SAMSUNG Angle           :  Standard
    MAGIC                      Game
    Coarse                  :  Cinema
    Fine                    :  Dynamic Contrast    0
         ▼
    EXIT    ▼▲   ▲    ▶    AUTO    ⏻
```
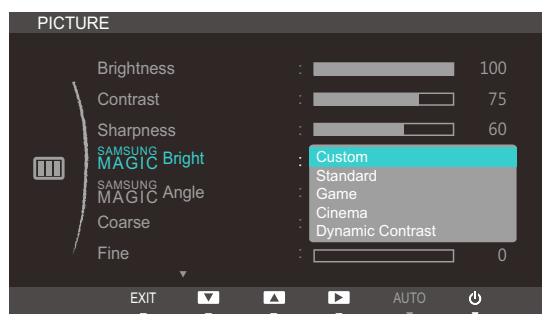
- **Custom**: Customize the contrast and brightness as required.
- **Standard**: Obtain a picture quality suitable for editing documents or using Internet.
- **Game**: Obtain a picture quality suitable for playing games that involve many graphic effects and dynamic movements.
- **Cinema**: Obtain the 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.

Screen Setup

4.5 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.

4.5.1 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.

```
PICTURE

    Brightness              :  ▬▬▬▬▬▬        100
    Contrast                :  ▬▬▬▬▬▬         75
    Sharpness               :  ▬▬▬▬▬          60
  SAMSUNG Bright            :  ┌─────────────────┐
  MAGIC                        │ Off             │
  SAMSUNG Angle            :  │ Lean Back Mode 1│
  MAGIC                        │ Lean Back Mode 2│
    Coarse                  :  │ Standing Mode   │
    Fine                    :  │ Side Mode       │
                               │ Group View      │
                               │ Custom          │
                               └─────────────────┘
    EXIT    ▼    ▲    ▶    AUTO    ⏻
```
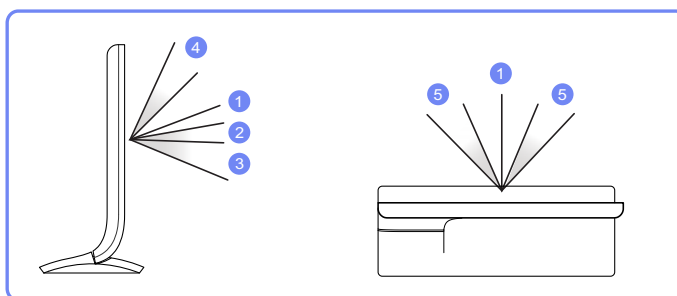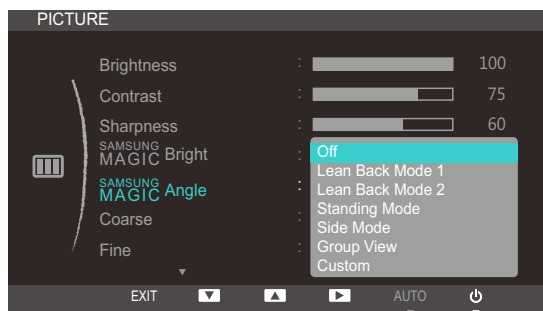
- **Off** ①: Select this option to view directly in front of the product.
- **Lean Back Mode 1** ②: Select this option to view from a place slightly lower than the product.
- **Lean Back Mode 2** ③: Select this option to view from a place lower than Lean Back Mode 1.
- **Standing Mode** ④: Select this 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.

4   Screen Setup

4.6   Coarse

Adjust the screen frequency.

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

4.6.1   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 [/] on the product.

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

```
PICTURE

          Brightness              :                         100
          Contrast               :                          75
          Sharpness              :                          60
  ▥       SAMSUNG
          MAGIC  Bright          :  Custom
          SAMSUNG
          MAGIC  Angle           :  Off
          Coarse                 :                        1936
          Fine                   :                           0
             ▼
        EXIT     ▼    ▲     ▶       AUTO      ⏻
        ▼        ▼    ▼     ▼       ▼         ▼
```
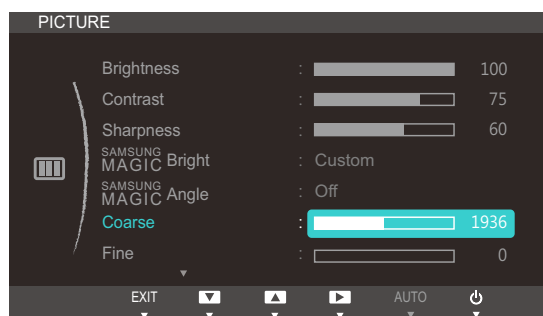
4 Adjust the **Coarse** using the [▲/▼] buttons.

Screen Setup

4.7   Fine

Fine-adjust the screen to obtain a vivid picture.

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

4.7.1   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.

```
PICTURE

Brightness              :            100
Contrast                :             75
Sharpness               :             60
SAMSUNG
MAGIC  Bright           :  Custom
SAMSUNG
MAGIC  Angle            :  Off
Coarse                  :           1936
Fine                    :              0

     EXIT              AUTO
```
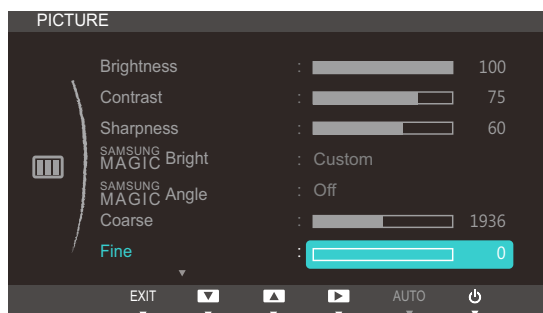
4 Adjust the **Fine** using the [/] buttons.

4 Screen Setup

4.8 Response Time

Accelerate the panel response rate to make video appear more vivid and natural.

- It is best to set **Response Time** to **Normal** or **Faster** when you are not viewing a movie.
- The functions available on the monitor may vary depending on the model. Refer to the actual product.

4.8.1 Configuring Response 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 **Picture** and press [/] on the product.

3 Press [/] to move to **Response Time** and press [/] on the product. The following screen will appear.

PICTURE

Response Time : Normal
HDMI Black Level   Faster
                   Fastest

EXIT   AUTO
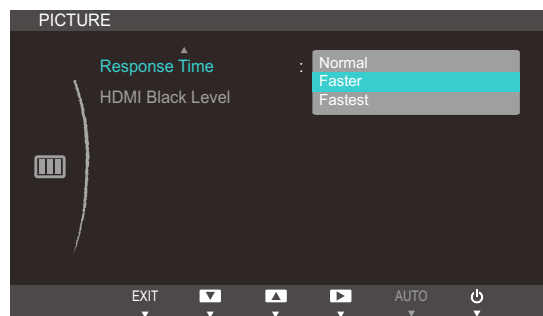
4 Press [/] to move to the option you want and press [/].

5 The selected option will be applied.

4.9 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**.

4.9.1 Configuring the HDMI Black Level 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 **Picture** and press [/] on the product.

3 Press [▲/▼] to move to **HDMI Black Level** and press [/] on the product. The following screen will appear.

```
PICTURE

        Response Time        :  Faster
        HDMI Black Level     :  Normal
                                Low

EXIT        ▼      ▲      ▶      AUTO      ⏻
```
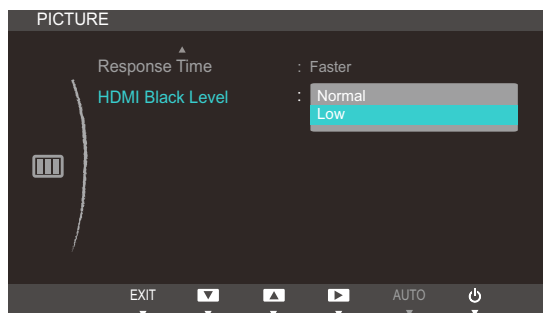
  - **Normal**: Select this mode when there is no contrast ratio degradation.

  - **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.

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

5

Configuring Tint

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

5.1   SAMSUNG MAGIC Color

^{SAMSUNG}_{MAGIC}Color 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}_{MAGIC}Angle is enabled.

5.1.1   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}_{MAGIC}Color and press [/   ] on the product. The following screen will appear.

```
COLOR

SAMSUNG
MAGIC Color          :   Off
Red                  :   Demo
Green                :   Full
                         Intelligent
Blue                 :                   50
Color Tone           :   Normal
Gamma                :   Mode1


EXIT            AUTO
```
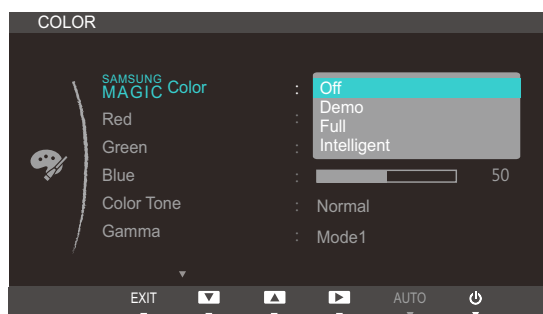
- **Off**: Disable ^{SAMSUNG}_{MAGIC}Color.
- **Demo**: Compare normal screen mode with ^{SAMSUNG}_{MAGIC}Color mode.
- **Full**: Obtain a vivid picture quality for all areas including the flesh colors in the picture.
- **Intelligent**: Improve the chroma for all areas except the flesh colors in the picture.

4   Press [▲ / ▼] to move to the option you want and press [/   ].

5   The selected option will be applied.

Configuring Tint

5.2 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 MAGIC Color is in **Full** or **Intelligent** mode.

5.2.1 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.

```
COLOR

SAMSUNG
MAGIC Color      :   Off
Red              :   ████████         50
Green            :   ████████         50
Blue             :   ████████         50
Color Tone       :   Normal
Gamma            :   Mode1

EXIT          ▼        ▲        ▶      AUTO
```
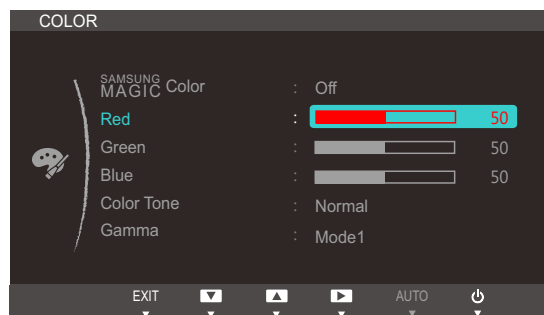
4 Adjust the **Red** using the [▲/▼] buttons.

5   Configuring Tint

5.3   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}MAGIC Color is in **Full** or **Intelligent** mode.

5.3.1   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.

COLOR		
SAMSUNG MAGIC Color	:	Off
Red	:	50
Green	:	50
Blue	:	50
Color Tone	:	Normal
Gamma	:	Mode1

EXIT   ▼   ▲   ▶   AUTO
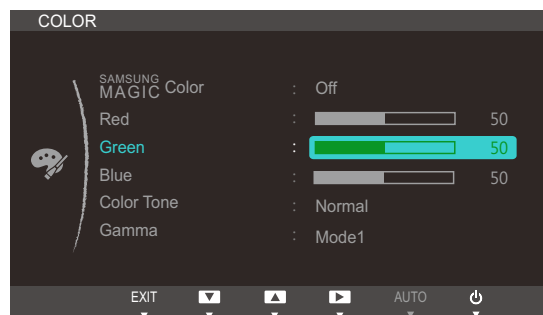
4   Adjust the **Green** using the [▲ / ▼] buttons.

5 Configuring Tint

5.4   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 MAGIC Color is in **Full** or **Intelligent** mode.

5.4.1   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.

COLOR		
ᴹᴬᴳᴵᶜ Color	:	Off
Red	:	50
Green	:	50
Blue	:	50
Color Tone	:	Normal
Gamma	:	Mode1

EXIT   AUTO
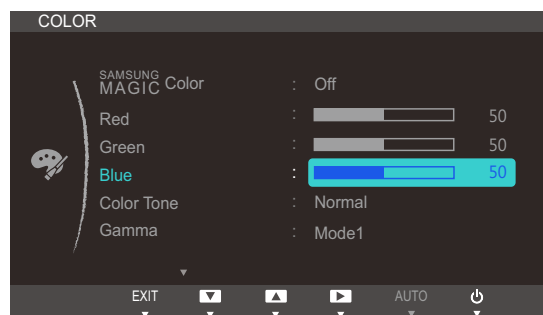
4 Adjust the **Blue** using the [▲ / ▼] buttons.

Configuring Tint

5.5 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.

5.5.1 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.
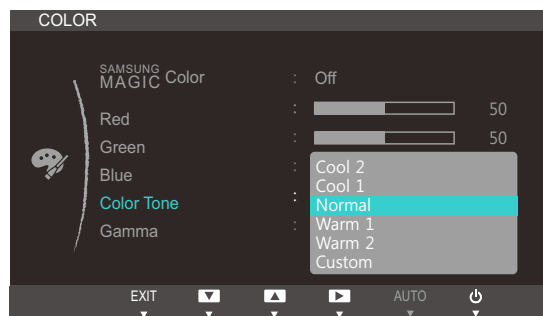
- • **Cool 2**: Set the color temperature to be cooler than **Cool 1**.
- • **Cool 1**: Set the color temperature to be cooler than **Normal** mode.
- • **Normal**: Display the standard color tone.
- • **Warm 1**: Set the color temperature to be warmer than **Normal** mode.
- • **Warm 2**: Set the color 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.

5

Configuring Tint

5.6   Gamma

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

> This menu is not available when ^{SAMSUNG}_{MAGIC}Angle is enabled.

5.6.1   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.
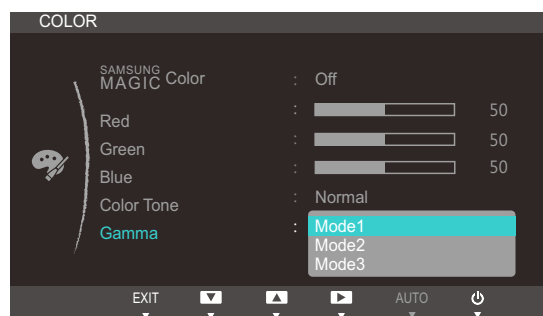
4 Press [/] to move to the option you want and press [/].

5 The selected option will be applied.

6 Resizing or Relocating the Screen

6.1 H-Position & V-Position

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

V-Position: Move the screen up or down.

> ● Available only when <u>Image Size</u> is set to **Screen Fit**.
> ● This menu is available in **Analog** mode only.

6.1.1 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.

SIZE&POSITION		
H-Position	:	50
V-Position	:	50
Image Size	:	Auto
Menu H-Position	:	50
Menu V-Position	:	10
EXIT ▼ ▲ ► AUTO ⏻		

SIZE&POSITION		
H-Position	:	50
V-Position	:	50
Image Size	:	Auto
Menu H-Position	:	50
Menu V-Position	:	10
EXIT ▼ ▲ ► AUTO ⏻		

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

6.2   Image Size

Change the picture size.

6.2.1   Changing the Image Size

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 **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.

- **4:3**: Display the picture with an aspect ratio of 4:3. Suitable for videos and standard broadcasts.
- **Wide**: Display the picture in full screen regardless of the aspect ratio of the input source.
- **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.
    - A digital output device is connected using the DVI cable.
    - The input signal is 480p, 576p, 720p, 1080i, or 1080p.

4 Press [▲ / ▼] to move to the option you want and press [/].

5 The selected option will be applied.

6 **Resizing or Relocating the Screen**

6.3 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.

6.3.1 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.

SIZE&POSITION			
H-Position	:	▬▬▬	50
V-Position	:	▬▬▬	50
Image Size	:	Auto	
Menu H-Position	:	▬▬▬	50
Menu V-Position	:	▬	10
EXIT ▼ ▲ ▶ AUTO ⏻			

SIZE&POSITION			
H-Position	:	▬▬▬	50
V-Position	:	▬▬▬	50
Image Size	:	Auto	
Menu H-Position	:	▬▬▬	50
Menu V-Position	:	▬	10
EXIT ▼ ▲ ▶ AUTO ⏻			

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

7   Setup and Reset

7.1   Reset

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

7.1.1   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.
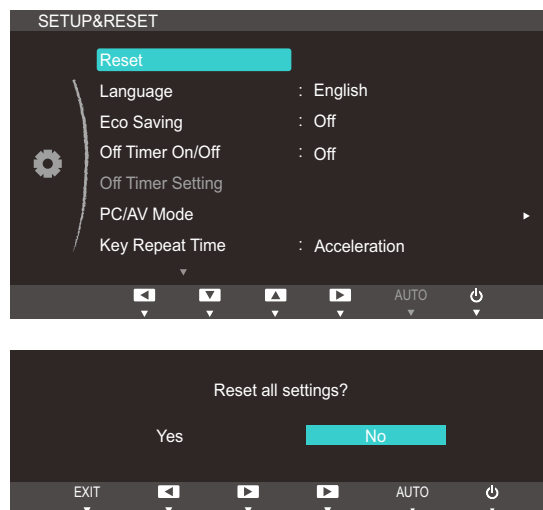
```
SETUP&RESET
      Reset
      Language            :  English
      Eco Saving          :  Off
      Off Timer On/Off    :  Off
      Off Timer Setting
      PC/AV Mode                          ▶
      Key Repeat Time     :  Acceleration
         ▼
      ◀      ▼      ▲      ▶      AUTO
      ▼      ▼      ▼      ▼      ▼
```

```
               Reset all settings?

      Yes                       No

      EXIT    ◀      ▶      ▶      AUTO
      ▼      ▼      ▼      ▼      ▼
```

4 Press [▲ / ▼] to move to the option you want and press [/].

5 The selected option will be applied.

Setup and Reset

7.2　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.

7.2.1　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.
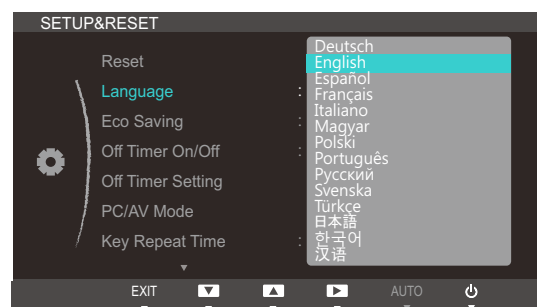
```
SETUP&RESET

              Reset                              Deutsch
              Language               :          English
              Eco Saving             :          Español
                                                 Français
              Off Timer On/Off       :          Italiano
              Off Timer Setting      :          Magyar
                                                 Polski
              PC/AV Mode                         Português
              Key Repeat Time        :          Русский
                                                 Svenska
                                                 Türkçe
                                                 日本語
                                                 한국어
                                                 汉语

     EXIT         ▼         ▲         ▶      AUTO
```

4　Press [/] to move to the language you want and press [/].

5　The selected option will be applied.

Setup and Reset

7.3 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.

7.3.1 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.

```
SETUP&RESET

    Reset
    Language            :  English
    Eco Saving          :  ▭▭▭▭▭▭ 75%
                                    ▭▭▭▭▭ 50%
    Off Timer On/Off    :  Off
    Off Timer Setting
    PC/AV Mode                              ▶
    Key Repeat Time     :  Acceleration
        ▼
    EXIT    ▼    ▲    ▶    AUTO    ⏻
       ▼    ▼    ▼    ▼    ▼      ▼
```
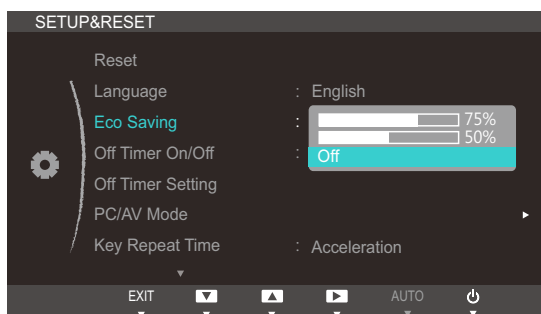
- **75%** : Change the monitor power consumption to 75% of the default level.
- **50%** : Change the monitor power consumption to 50% of the default level.
- **Off**: Deactivate the **Eco Saving** function.

4 Press [▲ / ▼] to move to the option you want and press [/].

5 The selected option will be applied.

Setup and Reset

7.4   Off Timer On/Off

You can set the product to automatically turn off.

7.4.1   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.

```
SETUP&RESET

        Reset
        Language            :  English
        Eco Saving          :  Off
        Off Timer On/Off    :  Off
        Off Timer Setting       On
        PC/AV Mode                          ▶
        Key Repeat Time     :  Acceleration

        EXIT    ▼   ▲   ▶   AUTO   
```
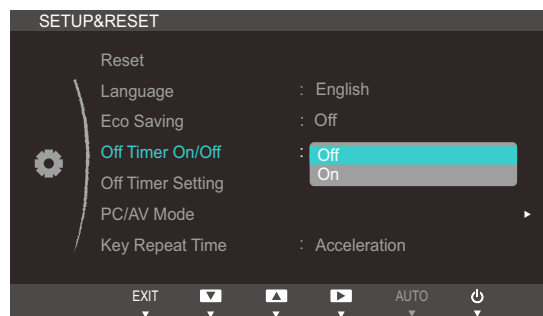
- **Off**: Deactivate the off timer so that the product does not power off automatically.

- **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.

Setup and Reset

7.5   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**.

7.5.1   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.

```
SETUP&RESET

      Reset
      Language              :  English
      Eco Saving            :  Off
      Off Timer On/Off      :  On
      Off Timer Setting     :  ▐████████▌    4h
      PC/AV Mode                                              ▶
      Key Repeat Time       :  Acceleration
          ▼
      EXIT      ▼▲    ▲▼    ▶    AUTO    ⏻
       ▼         ▼     ▼     ▼     ▼      ▼
```
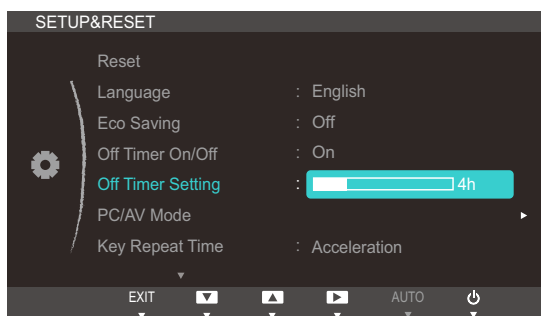
4   Press [▲/▼] to configure **Off Timer Setting**.

> For products for the market in Europe, the **Off Timer On/Off** 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** → **SETUP&RESET** and set **Off Timer On/Off** to **Off**.

Setup and Reset

7.6   PC/AV Mode

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

  PC/AV Mode is available in **HDMI** mode only.

7.6.1   Configuring PC/AV Mode

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 **PC/AV Mode** and press [/   ] on the product. The following screen will appear.

```
SETUP&RESET

    Reset
    Language              :  English
    Eco Saving            :  Off
    Off Timer On/Off      :  On
    Off Timer Setting     :            4h
    PC/AV Mode                          ▶
    Key Repeat Time       :
         ▼
    ◀      ▼      ▲      ▶      AUTO
```

```
PC/AV Mode

HDMI 1                :  PC
HDMI 2 / MHL             AV
                         DVI PC




   EXIT     ▼      ▲      ▶      AUTO
```

```
PC/AV Mode

HDMI                  :  PC
                         AV





   ◀      ▼      ▲      ▶      AUTO
```
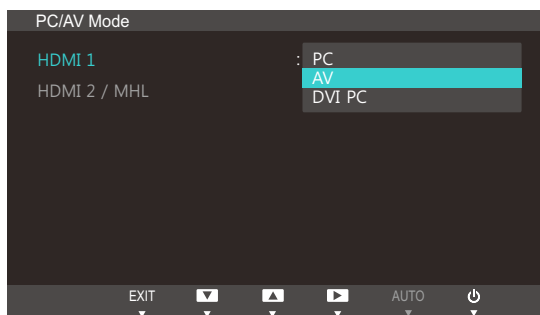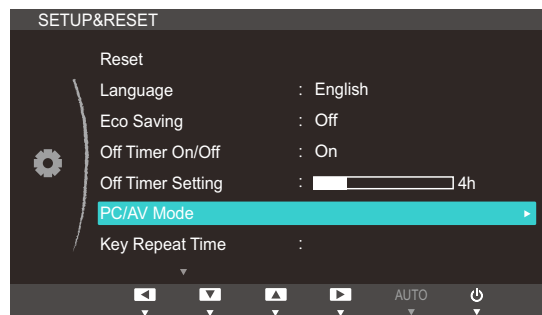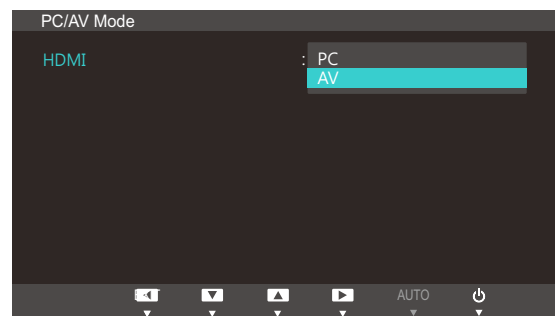
S24B750V/S27B750V   S24B750H/S27B750H

4   Press [▲ / ▼] to move to the option you want and press [/   ].

5   The selected option will be applied.

Setup and Reset

7.7 Key Repeat Time

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

7.7.1 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.

```
SETUP&RESET

   Reset
   Language           :  English
   Eco Saving         :  Off
   Off Timer On/Off   :  On
   Off Timer Setting  :  Acceleration
   PC/AV Mode         :  1 sec
   Key Repeat Time    :  2 sec
                         No Repeat

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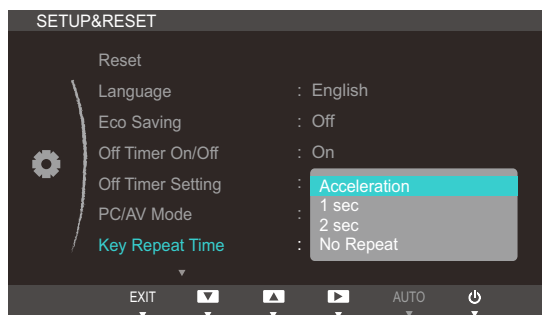
- **Acceleration**, **1 sec**, or **2 sec** can be selected. If **No Repeat** is selected, a command responds only once when a button is pressed.

4 Press [▲/▼] to move to the option you want and press [/].

5 The selected option will be applied.

Setup and Reset

7.8   Customized Key (S24B750H / S27B750H)

You can customize Customized Key as follows.

7.8.1   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.

```
SETUP&RESET
                    ▲
         Customized Key        :   SAMSUNG
                                  MAGIC  Angle
                                   SAMSUNG
         Auto Source           :   MAGIC  Bright
         Display Time          :   Eco Saving
                                   Image Size
         Menu Transparency     :   On



   EXIT        ▼▲         ▲         ▶        AUTO        
              ▼          ▼         ▼         ▼         ▼
```
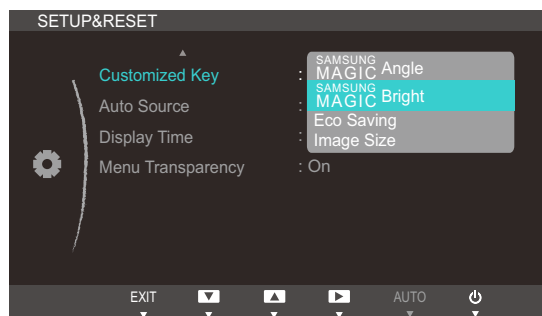
- SAMSUNG MAGIC Angle - SAMSUNG MAGIC Bright - Eco Saving - Image Size

4   Press [▲ / ▼] to move to the option you want and press [/].

5   The selected option will be applied.

7   Setup and Reset

7.9   Auto Source

You can activate Auto Source.

7.9.1   Configuring Auto Source

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 Auto Source and press [/] on the product. The following screen will appear.

SETUP&RESET

Customized Key	:	Eco Saving
Auto Source	:	Auto
Display Time	:	Manual
Menu Transparency	:	On

EXIT   ▼   ▲   ▶   AUTO
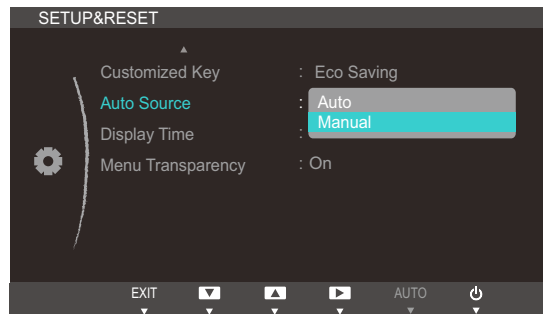
- **Auto**: The input source is automatically recognized.
- **Manual**: Manually select an input source.

4   Press [▲ / ▼] to move to the option you want and press [/].

5   The selected option will be applied.

Setup and Reset

7.10 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.

7.10.1 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.
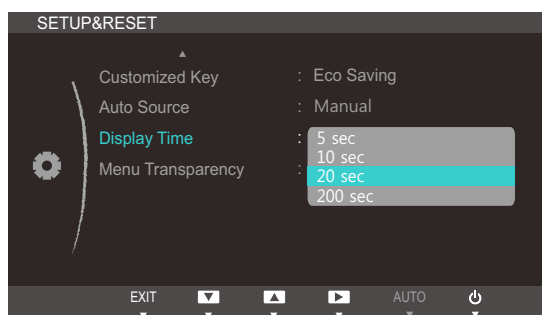
4 Press [▲ / ▼] to move to the option you want and press [/].

5 The selected option will be applied.

Setup and Reset

7.11   Menu Transparency

Set the transparency for the menu windows:

7.11.1   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.
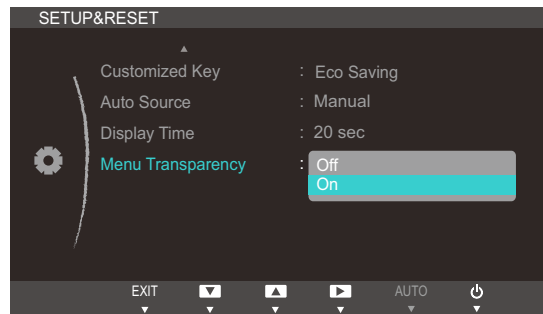
SETUP&RESET		
▲		
Customized Key	:	Eco Saving
Auto Source	:	Manual
Display Time	:	20 sec
Menu Transparency	:	Off
		On
EXIT ▼ ▲ ▶ AUTO ⏻		

4   Press [▲ / ▼] to move to the option you want and press [/].

5   The selected option will be applied.

8 INFORMATION Menu and Others

8.1 INFORMATION

View the current input source, frequency and resolution.

8.1.1 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.
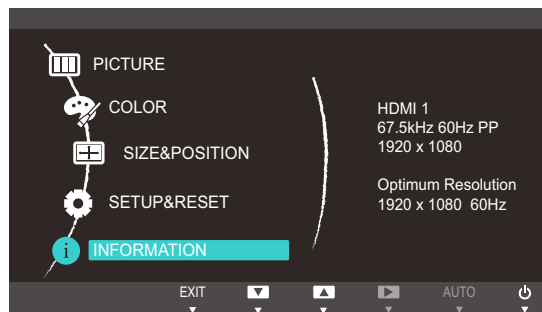
 The displayed menu items may vary depending on the model.

INFORMATION Menu and Others

8.2 Configuring Volume in the Initial Screen (S24B750V / S27B750V)

8.2.1 Volume

> 📝 The **Volume** can be adjusted in the initial screen on the S24B750V / S27B750V model only.

Adjust the **Volume** by pressing the [ ] button when the Key guide is displayed.

1 Press any button on the front of the product (when no menu screen is displayed) to display the Key guide. Next, press [ ].

2 Press [/] to move to **Volume** and press [/] on the product. The following screen will appear.

```
Volume

Volume          :  ▬▬▬▬▬▬▬▬▬▬  50
Sound Mode      :  Standard




        EXIT    ▼▲    ▲    ▶    AUTO    ⏻
```
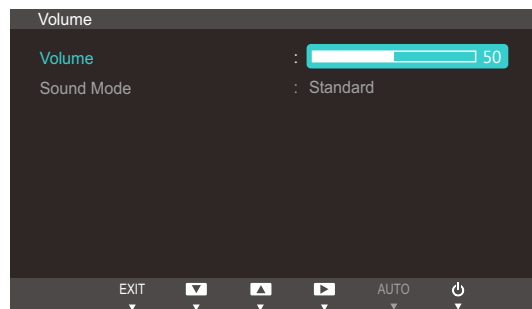
3 Adjust the **Volume** using the [/] buttons.

8.2.2 Sound Mode

Select a picture mode (Mode) suitable for the environment where the product will be used.

1 Press any button on the front of the product (when no menu screen is displayed) to display the Key guide. Next, press [ ].

2 Press [/] to move to **Sound Mode** and press [/] on the product. The following screen will appear.

Volume		
Volume	:	▭▭▭▭▭▭ 50
Sound Mode	:	**Standard**
		Music
		Movie
		Clear Voice

EXIT ▼ ▲ ► AUTO
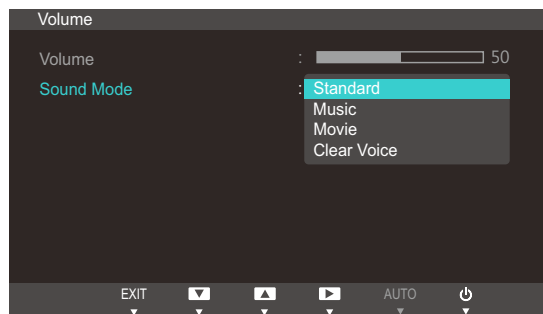
- **Standard**: Provides sound suitable for any type of content.
- **Music**: Provides sound close to the original experience.
- **Movie**: Provides a grand sound experience.
- **Clear Voice**: Hear voices clearly.

3 Press [/] to move to the option you want and press [/].

4 The selected option will be applied.

8.3 Configuring Brightness and Contrast in the Initial Screen (S24B750H / S27B750H)

 The **Brightness** and **Contrast** can be adjusted in the initial screen on the S24B750H / S27B750H model only.

Adjust the **Brightness** or **Contrast** setting using the [ ] buttons in the initial screen (where no OSD menu is displayed).

1 Press any button on the front of the product (when no menu screen is displayed) to display the Key guide. Next, press [ ]. The following screen will appear.
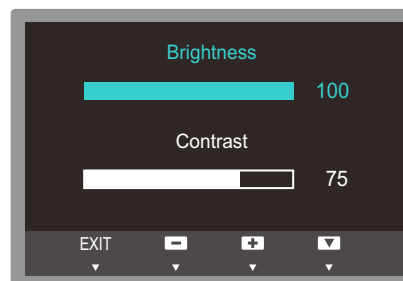
2 Press the [ ] button to alternate between the **Brightness** and **Contrast** settings.

3 Adjust the **Brightness** or **Contrast** setting using the [▲/▼] buttons.

9 Installing the Software

9.1 Magic Tune

9.1.1 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.

9.1.2 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

9 Installing the Software

9.1.3 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 MagicTune™, please visit our website(http://www.samsung.com/us/consumer/learningresources/monitor/magetune/pop_intro.html).

10 Troubleshooting Guide

10.1 Requirements Before Contacting Samsung Customer Service Center

10.1.1 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.

10.1.2 Checking the Resolution and Frequency

For a mode that exceeds the supported resolution (refer to "11.3 Standard Signal Mode Table"), the message **Not Optimum Mode** will appear for a short time.

10.1.3 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 "3.3 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 "3.3 Connecting and Using a PC")
The message **Check Signal Cable** appears.	Check that the cable is properly connected to the product. (Refer to "3.3 Connecting and Using a PC")
	Check that the device connected to the product is powered on.

Troubleshooting Guide

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 82).
The images on the screen look distorted.	Check the cable connection to the product (Refer to "3.3 Connecting and Using a PC")
The screen is not clear. The screen is blurry.	Adjust **Coarse** (page 44) and **Fine** (page 45).
	Remove any accessories (video extension cable, etc.) and try again.
	Set the resolution and frequency to the recommended level. (Refer to "11.1 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 82) 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 39) and **Contrast** (page 40).
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.

Sound issue (S24B750V / S27B750V)	
There is no sound.	Check the connection of the audio cable or adjust the volume.
	Check the volume.

Sound issue (S24B750V / S27B750V)	
The volume is too low.	Adjust the volume.
	If the volume is still low after turning it up to the maximum level, adjust the volume on your PC sound card or software program.

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.

10 Troubleshooting Guide

10.2   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.

Specifications

11.1   General

Model Name		S24B750V	S24B750H	S27B750V	S27B750H
Panel	Size	24 inches (61cm)		27 inches (68cm)	
	Display area	531.36 mm (H) x 289.89 mm (V) 20.9 inches (H) x 11.4 inches (V)		597.6 mm (H) x 336.15 mm (V) 23.5 inches (H) x 13.2 inches (V)	
	Pixel pitch	0.27675 mm (H) x 0.27675 mm (V) 0.010896 inches (H) x 0.010896 inches (V)		0.31125 mm (H) x 0.31125 mm (V) 0.012254 inches (H) x 0.012254 inches (V)	
Synchronization	Horizontal Frequency	30~81 kHz		30~81 kHz	
	Vertical Frequency	49~75 Hz	49~75 Hz	49~75 Hz	49~75 Hz
Display Color		16.7M (6 bit with Hi-FRC)			
Resolution	Optimum Resolution	1920 x 1080 @ 60 Hz			
	Maximum Resolution	1920 x 1080 @ 60 Hz			
Maximum Pixel Clock		164MHz (Dsub/HDM1/HDMI2)			
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		D-Sub, HDMI1, HDMI2/MHL	D-Sub, HDMI	D-Sub, HDMI1, HDMI2/MHL	D-Sub, HDMI
Dimensions (W x H x D) / Weight		570.0 × 435.0 × 204.0 mm / 6.0 kg 22.4 x 17.1 x 8.0 inches / 13.2 lbs		636.0 × 474.0 × 204.0 mm / 6.3 kg 25.0 x 18.7 x 8.0 inches / 13.9 lbs	
Environmental considerations	Operating	Temperature : 50°F – 104°F (10°C – 40°C) Humidity : 10 % – 80 %, non-condensing			
	Storage	Temperature : -4°F – 113°F (-20°C – 45°C) Humidity : 5 % – 95 %, non-condensing			

Model Name	S24B750V	S24B750H	S27B750V	S27B750H
Plug-and-Play	This monitor can be installed and used with any Plug-and-Play compatible systems. Two-way data exchange between the monitor and PC system optimizes the monitor settings. Monitor installation takes place automatically. However, you can customize the installation settings if desired.			
Panel Dots (Pixels)	Due to the nature of the manufacturing of this product, approximately 1 pixel per million (1ppm) may be brighter or darker on the LCD panel. This does not affect product performance.			

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

This device is a Class B digital apparatus.

(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

11 **Specifications**

11.2 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.

S24B750V

PowerSaver	Normal operation mode	Power saving mode	Power off (Power button)
Power Indicator	On	Blinking	Off
Power Consumption	30 W	Less than 0.5 W	Less than 0.5 W

S27B750V

PowerSaver	Normal operation mode	Power saving mode	Power off (Power button)
Power Indicator	On	Blinking	Off
Power Consumption	42 W	Less than 0.5 W	Less than 0.5 W

S24B750H

PowerSaver	Normal operation mode	Power saving mode	Power off (Power button)
Power Indicator	On	Blinking	Off
Power Consumption	27 W	Less than 0.5 W	Less than 0.5 W

S27B750H

PowerSaver	Normal operation mode	Power saving mode	Power off (Power button)
Power Indicator	On	Blinking	Off
Power Consumption	38 W	Less than 0.5 W	Less than 0.5 W

- 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.

11.3 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.

D-Sub, HDMI1, HDMI2

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640 x 480, 60Hz	31.000	59.940	25.170	-/-
VESA, 800 x 600, 56Hz	35.156	56.000	36.000	+/+
VESA, 800 x 600, 60Hz	37.879	60.000	40.000	+/+
VESA, 1024 x 768, 60Hz	48.363	60.000	40.000	-/-
VESA, 1280 x 720, 60Hz	45.000	60.000	74.250	+/+
VESA, 1280 x 800, 60Hz	37.879	60.317	65.000	+/+
VESA, 1280 x 1024, 60Hz	63.981	60.000	108.000	+/+
VESA, 1440 x 900, 60Hz	55.935	59.887	106.500	-/+
VESA, 1600 x 900, 60Hz	60.000	60.000	108.000	+/+
VESA, 1680 x 1050, 60Hz	65.290	59.954	146.250	-/+
VESA, 1920 x 1080, 60Hz	67.500	60.000	148.500	+/+

HDMI1, HDMI2

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
480p, 720 x 480, 60Hz	31.470	60.000	27.000	-/-
576p, 720 x 576, 50Hz	31.250	50.000	27.000	-/-
720p, 1280 x 720, 50Hz	37.500	50.000	74.250	+/+
720p, 1280 x 720, 60Hz	45.000	60.000	74.250	+/+
1080i, 1920 x 1080i, 50Hz	28.120	50.000	74.250	+/+
1080i, 1920 x 1080i, 60Hz	33.750	60.000	74.250	+/+
1080p, 1920 x 1080p, 50Hz	56.250	50.000	148.500	+/+
1080p, 1920 x 1080p, 60Hz	67.500	60.000	148.500	+/+

Specifications

- 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) From mobile 02-482 82 00	http://www.samsung.com
COLOMBIA	01-8000112112	http://www.samsung.com
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)
PERU	0-800-777-08	http://www.samsung.com
PUERTO RICO	1-800-682-3180	http://www.samsung.com
TRINIDAD & TOBAGO	1-800-SAMSUNG (726-7864)	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	05 133 1999	http://www.samsung.com
BULGARIA	07001 33 11 , normal tariff	http://www.samsung.com
CROATIA	062 SAMSUNG (062 726 7864)	http://www.samsung.com
CYPRUS	8009 4000 only from landline (+30) 210 6897691 from mobile and land line	http://www.samsung.com

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EUROPE		
CZECH	800 - SAMSUNG (800-726786)	http://www.samsung.com
	Samsung Electronics Czech and Slovak, s.r.o., Oasis Florenc, Sokolovská 394/17, 180 00, Praha 8	
DENMARK	70 70 19 70	http://www.samsung.com
EIRE	0818 717100	http://www.samsung.com
ESTONIA	800-7267	http://www.samsung.com
FINLAND	09 85635050	http://www.samsung.com
FRANCE	01 48 63 00 00	http://www.samsung.com
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
GREECE	80111-SAMSUNG (80111 726 7864) only from land line (+30) 210 6897691 from mobile and land line	http://www.samsung.com
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
LITHUANIA	8-800-77777	http://www.samsung.com
LUXEMBURG	261 03 710	http://www.samsung.com
MACEDONIA	023 207 777	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
POLAND	0 801-1SAMSUNG (172-678) +48 22 607-93-33	http://www.samsung.com
PORTUGAL	808 20 - SAMSUNG (808 20 7267)	http://www.samsung.com
RUMANIA	08008 SAMSUNG (08008 726 7864) TOLL FREE No.	http://www.samsung.com
SERBIA	0700 Samsung (0700 726 7864)	http://www.samsung.com
SLOVAKIA	0800 - SAMSUNG (0800-726 786)	http://www.samsung.com
SPAIN	902 - 1 - SAMSUNG (902 172 678)	http://www.samsung.com

EUROPE		
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

CIS		
ARMENIA	0-800-05-555	http://www.samsung.com
AZERBAIJAN	088-55-55-555	http://www.samsung.com
BELARUS	810-800-500-55-500	http://www.samsung.com
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	+7-800-555-55-55	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)
UZBEKISTAN	8-10-800-500-55-500	http://www.samsung.com

ASIA PACIFIC		
AUSTRALIA	1300 362 603	http://www.samsung.com
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)

ASIA PACIFIC		
INDIA	1800 1100 11 3030 8282 1800 3000 8282 1800 266 8282	http://www.samsung.com
INDONESIA	0800-112-8888 021-5699-7777	http://www.samsung.com
JAPAN	0120-327-527	http://www.samsung.com
MALAYSIA	1800-88-9999	http://www.samsung.com
NEW ZEALAND	0800 SAMSUNG (0800 726 786)	http://www.samsung.com
PHILIPPINES	1-800-10-SAMSUNG (726-7864) for PLDT 1-800-3-SAMSUNG (726-7864) for Digitel 1-800-8-SAMSUNG (726-7864) for Globe 02-5805777	http://www.samsung.com
SINGAPORE	1800-SAMSUNG (726-7864)	http://www.samsung.com
TAIWAN	0800-329-999 0266-026-066	http://www.samsung.com
THAILAND	1800-29-3232 02-689-3232	http://www.samsung.com
VIETNAM	1 800 588 889	http://www.samsung.com

MIDDIE EAST		
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
KUWAIT	183-2255	http://www.samsung.com/ae (English) http://www.samsung.com/ae_ar (Arabic)

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MIDDIE EAST		
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 (Arabic)
SAUDI ARABIA	9200-21230	http://www.samsung.com/ae (English) http://www.samsung.com/ae_ar (Arabic)
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 0302-200077	http://www.samsung.com
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

Appendix

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 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 1920 x 1080 consists of 1,920 horizontal pixels (horizontal frequency) and 1,080 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.

MHL (Mobile High-Definition Link)

This feature allows you to enjoy videos and photos (imported from a connected mobile device that supports **MHL**) on the screen of the product.

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