MonitorUser Manual

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



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1 Major Safety Precautions

1-1 Before You Start

Icons used in this manual

ICON	NAME	MEANING
1	Caution	Indicates cases where the function may not work or the setting may be canceled.
	Note	Indicates a hint or tip to operate a function.

Using this Manual

- · Make yourself fully aware of the safety precautions before using this product.
- · If a problem occurs, refer to the 'Troubleshooting' section.

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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 center 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.

Major Safety Precautions 1-1

1-2 Custody and Maintenance

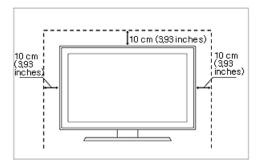
Securing the Installation Space

Keep the required distances between the product and other objects (e.g. walls) to ensure proper ventilation.
 Failing to do so may result in fire or a problem with the product due to an increase in the internal temperature.
 Install the product so the required distances shown in the figure are kept.



The appearance may differ depending on the product.

When installing the product with a stand



About persistent images

• Displaying a still image for a long time may create a persistent image or stain on the screen. If you do not use the product for a long time, set the power-saving mode or screen saver.

1-2

1-3 Cleaning the Monitor

Cleaning the Monitor

• The panel and exterior of the cutting-edge monitor scratch easily and require careful attention. Clean the monitor according to the following steps.



- 1. Power off the monitor and PC.
- 2. Disconnect the power cable from the monitor.



To avoid electric shock, be sure you disconnect the cable by gripping the plug and do not touch the cable with wet hands.



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



Do not use a cleaning agent that contains surfactant, alcohol, or solvents.

Otherwise, the exterior may discolor or crack or the panel coating may come off.



Do not spray water or cleaning agent directly onto the monitor.

Otherwise, the liquid may sink into the monitor and cause a fire, electric shock, or failure.



4. Clean the exterior of the monitor using a soft cloth dampened with a small amount of water.



- 5. Connect the power cable to the monitor after you have finished cleaning.
- 6. Power on the monitor and PC.

Precautions for Storage

· Using an ultrasonic humidifier may cause white stains on a highly glossy product.



Be sure you contact the nearest service center (paid service) for cleaning the inside of the monitor.

Major Safety Precautions 1-3

Icons used for safety precautions

ICON	NAME	MEANING
<u> </u>	Warning	Failing to follow the precautions marked with this sign, may result in a serious injury or even a fatality.
<u>^</u>	Caution	Failing to follow the precautions marked with this sign, may result in a personal injury or property damage.

Meaning of Signs



Do not perform.



Must be followed.



Do not disassemble.



The power plug must be unplugged from the wall outlet.



Do not touch.



Must be grounded to prevent electric shock.

Power Related



The following images are for your reference and may differ depending on models and countries.



Warning



Avoid using a damaged power cord or plug or a loose power outlet.

 Otherwise, it may result in electric shock or fire



Avoid connecting multiple electric appliances to a single wall outlet.

Otherwise, it may result in fire due to overheating of the wall outlet.



Avoid plugging in or unplugging the power supply with wet hands.

Otherwise, it may result in electric shock.



Otherwise, it may result in fire.

Plug the power plug in firmly.



Make sure to connect the power cord to a grounded wall outlet (for insulation class 1 equipment only).

Otherwise, it may result in electric shock or injury.



Avoid bending or twisting the power cord excessively and avoid placing heavy objects on the cord.



Keep the power cord and the product away from a heater.

Otherwise, it may result in electric shock or fire.



 Otherwise, it may result in electric shock or fire due to a damaged power cord.

If the pins of the power plug or the wall outlet are covered in dust, clean it using a dry cloth.

· Otherwise, it may result in fire.



Caution



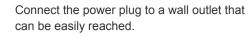
Avoid unplugging the power plug while the product is operating.

Otherwise, it may damage the product due to electric shock.



Make sure to use only the power cord supplied by Samsung. In addition, do not use the power cord of another electric appli-

Otherwise, it may result in electric shock or fire.



When a problem occurs with the product, you must unplug the power plug to cut the power off completely. You cannot cut the power off completely using only the power button on the product.



When unplugging the power plug from the wall outlet, make sure to hold it by the plug and not by the cord.

Otherwise, it may result in electric shock or fire.



Installation Related



Warning



AVOID PLACING BURNING CANDLES, MOSQUITO-REPELLENT OR CIGA-RETTES ON THE PRODUCT AND INSTALLING THE PRODUCT NEAR A HEATER.

Otherwise, it may result in fire.



Ask an installation engineer or relevant company to install the product onto a wall.

- Otherwise, it may result in injury.
- Make sure to use the specified wall mount.



Avoid installing the product in a badly-ventilated location such as inside a bookshelf or closet.

Otherwise, it may result in fire due to internal over-heating.



Otherwise, it may result in fire due to internal over-heating.

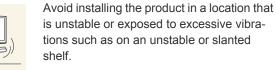
Keep a distance of at least 4 inches (10 cm

) from the wall when installing the product



Keep the plastic bags used to pack the product away from children.

If children place the plastic bags over their heads, they may suffocate.



for ventilation.

- The product may fall and this may result in damage to the product or injury.
- If you use the product in a location exposed to excessive vibrations, it may result in a problem with the product or fire.

1-4

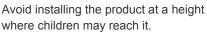


Major Safety Precautions



Avoid installing the product in a location exposed to dust, moisture (sauna), oil, smoke or water (rain drops) and installing it within a vehicle.

This may result in electric shock or fire.



- If a child touches the product, the product may fall and this may result in
- Since the front part is heavier, install the product on a flat and stable surface.



Avoid installing the product in a location exposed to direct sunlight or heat source such as a fire or heater.

This may shorten the product life cycle or cause fire.

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



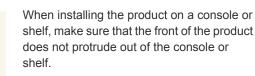


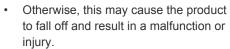
Caution

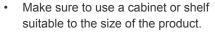


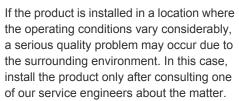
Do not let the product drop while moving it.

This may result in a problem with the product or injury.



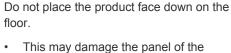




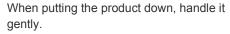


Places exposed to microscopic dust, chemicals, too high or low temperature, high humidity, such as airports or stations where the product is continuously used for a long time and so on.





product.



Otherwise, it may result in a problem with the product or injury.







Usage Related



Warning



Since a high voltage runs through the product, never disassemble, repair or modify the product yourself.

- Otherwise, it may result in fire or electric shock.
- If the product needs to be fixed, contact a service center.



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, unplug the power plug immediately and contact a service center.

 Otherwise, it may result in electric shock or fire.



Avoid letting children to hang or climb onto the product.

 Otherwise, it may result in the product falling and this may result in injury or death.



If you drop the product or the case is damaged, turn the power off and unplug the power cord. Contact a service center.

 Otherwise, it may result in fire or electric shock.



Avoid placing objects such as toys and cookies on top of the product.

 If a child hangs over the product to grab an object, the object or the product may fall and this may result in injury or even death.



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

 Otherwise, it may result in electric shock or fire



Avoid dropping an object over the product or cause impact to the product.

 Otherwise, it may result in electric shock or fire.



Avoid moving the product by pulling the power cord or antenna cable.

 Otherwise, it may result in electric shock, fire or a problem with the product due to damage to the cable.



When a gas leak occurs, do not touch the product or the power plug and ventilate immediately.

A spark may result in an explosion or fire.



Avoid lifting up or move the product by holding only the power cord or signal cable.

 Otherwise, it may result in electric shock, fire or a problem with the product due to damage to the cable.



Avoid using or placing inflammable spray or objects near the product.

1-4

This may result in an explosion or fire.

Major Safety Precautions



Take care not to block the vent by a table cloth or curtain.

 Otherwise, it may result in fire due to internal overheating.



Avoid inserting metal objects such as a chopsticks, coins or hairpins, or inflammable objects into the product (the vents, ports, etc).

- If water or an alien substance enters the product, turn the power off, unplug the power cord and contact a service center.
- Otherwise, it may result in a problem with the product, electric shock or fire.



Avoid placing a liquid container such as a vase, flowerpot, beverage, cosmetics or drugs, or a metal object over the product.

- If water or an alien substance enters the product, turn the power off, unplug the power cord and contact a service center.
- Otherwise, it may result in a problem with the product, electric shock or fire.



Caution



Displaying a still image for a long time may create a persistent image or stain on the screen.

 If you do not use the product for a long time, use the power-saving mode or set the screensaver to the moving picture mode.



Set the appropriate resolution and frequency for the product.

Otherwise, it may result in eye strain.



Do not place the adapter on top of another adapter.

Otherwise, it may result in fire.



Remove the vinyl cover of the adapter before using the adaptor.

· Otherwise, it may result in fire.



Be careful that adaptor should not be in contact with water and therefore not be wet.

 This may cause a malfunction, electric shock or fire. Do not use adaptor by the waterside or outside particularly when it rains or snows. Be careful that adaptor should not be wet while cleaning floor with water.



Avoid using a humidifier or cooker near the product

 Otherwise, it may result in electric shock or fire.



When not using the product for a long time such as leaving your home, unplug the power cable from the wall outlet.

 Otherwise, it may cause dust accumulation and result in fire caused by overheating or short circuit or result in an electric shock.



Avoid turning the product upside down or move the product holding only the stand.

 This may cause the product to fall resulting in damage to the product or injury.



Keep power adaptor away from any other heat source.

Otherwise, it may result in fire.



Always keep power adaptor in well-ventilated area.



Watching the product from too close a distance continuously may damage your eyesight.



It is important to give your eyes some rest (5 minutes every hour) when viewing the product screen for long periods of time.

This will alleviate any eye strain.

1-4



Since the display panel is hot after using it for a long time, do not touch the product.



Keep small accessories away from the children.



Take care when adjusting the angle of the product or the height of the stand.

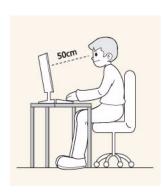
- If your hand or finger is caught, you may be injured.
- If the product is tilted excessively, the product may fall and this may result in injury.



Avoid placing a heavy object over the product.

Otherwise, it may result in a problem with the product or injury.

Maintaining the Correct Posture when Using this Product



Maintain the correct posture when using this product.

- · Straighten your back.
- Keep a distance of 45~50 cm(18~ 20inches) from your eyes to the screen. Look down at the screen and face the screen forwards.
- Adjust the angle of the product so that light is not reflected onto the screen.
- Keep your elbow at a right angle and keep your arm level with the back of your hand.
- Keep your elbow at a right angle.
- Place your heels flat on the ground while keeping your knees at an angle of 90 degrees or higher and maintain the position of your arm so that your arm is below your heart.

Major Safety Precautions 1-4

2 Installing the Product

2-1 Package Contents



- Unpack the product and check if all of the following contents have been included.
- Store the packaging box in case you need to move the Product at a later stage.



Monitor

	CONTENTS						
Quick Setup Guide	Quick Setup Guide Warranty Card (Not available in some locations)		Stand				
Stand Connector	Stand Connector DC-Adapter						
	ОРТ	TION					
HDMI Cable	HDMI to DVI Cable	D-Sub Cable	DVI Cable				



The cables provided may vary depending on the product you purchase.

2-1 Installing the Product



Before assembling the product, put the product down on a flat and stable surface (table, etc.) with the screen facing down.



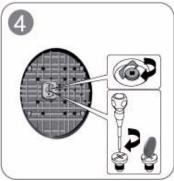
Lay a soft blanket on the table for protection. Next, place the product with the screen facing down onto the blanket.



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



Check if the Stand Connector is firmly connected.



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



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

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

Installing the Product 2-2



- Caution

Never lift the product by holding only the stand.



More force may be required to detach the stand from the product than when it was attached.

2-2 Installing the Product

Connecting with a PC



The connecting part may differ depending on the product model.

- 1. Connect the product to a PC depending on the video output supported by the PC.
 - When the graphics card provides D-Sub (<Analog>) output
 - Connect the [RGB IN] port of the product to the [D-Sub] port of the PC with the D-Sub cable.



- When the graphics card provides DVI (<Digital>) output
 - Connect the [DVI IN] port of the product to the [DVI] port of the PC with the DVI cable.

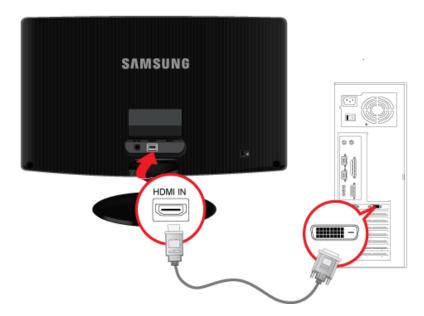




The [DVI IN] terminal is supplied for the digital (DVI)-dedicated models only.

Installing the Product 2-3

• Connect the [HDMI IN] port of the product to the [DVI] port on your PC using the HDMI to DVI cable.



- The [HDMI IN] terminal is supplied for the HDMI-dedicated models only.
- 2. Connect the power adapter to [DC] jack on the rear of the product. Connect the power cord to the adapter and wall socket. (The input voltage is switched automatically.)



When the product is connected to a PC, you can turn the product on and use it.

2-3 Installing the Product

Connecting with a Video Device

Connect the HDMI output port of your digital output device to the [HDMI IN] port of the product using the HDMI cable.



1

The [HDMI IN] terminal is supplied for the HDMI-dedicated models only.

Installing the Product 2-3

2-4 Kensington Lock

A Kensington Lock is an anti-theft device that enables users to lock the product so that they can safely use it in public locations. Since the shape and usage of the locking device may differ depending on the model and the manufacturer, for more information, refer to the User Manual supplied with the locking device for more information.



You must purchase the Kensington Lock separately.



To lock the product, follow these steps:

- 1. Wrap the Kensington lock cable around a large, stationary object such as a desk or chair.
- 2. Slide the end of the cable with the lock attached through the looped end of the Kensington lock cable.
- 3. Insert the locking device into the Kensington slot on the Monitor().
- 4. Lock the lock(A).



- These are general instructions. For exact instructions, see the User Manual supplied with the locking device.
- · You can purchase the locking device from an electronics store, an online shop, or our service center.

2-4 Installing the Product

3 Using the product

3-1 Setting the Optimal Resolution

If you turn the power on after purchasing the product, a message regarding the optimal resolution setting appears on the screen. Select a language on the product and change the resolution on your PC to the optimum setting.



▲/▼ : You can select a language with these buttons.

MENU: If you press this button, the message disappears.



- The message appears up to 3 times if the resolution has not been set to the optimal resolution.
- To set the resolution to the optimal resolution
 - When the PC is turned off, connect the product and the PC and turn the power on.
 - Right-click over the Desktop and select 'Properties' from the pop-up menu.
 - In the 'Settings' tab, set the resolution to the optimal resolution.
- · For the optimal resolution, refer to the Specifications.

3-2 Standard Signal Mode Table



This product delivers the best picture quality when viewed under the optimal resolution setting. The optimal resolution is dependent on the screen size.

Therefore, the visual quality will be degraded if the optimal resolution is not set for the panel size. It is recommended setting the resolution to the optimal resolution of the product.

If the signal from the PC is one of the following standard signal modes, the screen is set automatically. However, if the signal from the PC is not one of the following signal modes, a blank screen may be displayed or only the Power LED may be turned on. Therefore, configure it as follows referring to the User Manual of the graphics card.



For the optimal resolution, refer to the Specifications.

S19B350N

DISPLAY MODE	HORIZONTAL FREQUENCY (KHZ)	VERTICAL FREQUENCY (HZ)	PIXEL CLOCK (MHZ)	SYNC POLARITY (H/V)
IBM, 720 x 400	31.469	70.087	28.322	-/+
MAC, 640 x 480	35.000	66.667	30.240	-/-
MAC, 832 x 624	49.726	74.551	57.284	-/-
VESA, 640 x 480	31.469	59.940	25.175	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1280 x 720	45.000	60.000	74.250	+/+
VESA, 1366 x 768	47.712	59.790	85.500	+/+

Horizontal Frequency

The time taken to scan one line from the left-most position to the right-most position on the screen is called the horizontal cycle and the reciprocal of the horizontal cycle is called the horizontal frequency. The horizontal frequency is represented in kHz.

Vertical Frequency

A panel must display the same picture on the screen tens of times every second so that humans can see the picture. This frequency is called the vertical frequency. The vertical frequency is represented in Hz.

3-3 Standard Signal Mode Table



This product delivers the best picture quality when viewed under the optimal resolution setting. The optimal resolution is dependent on the screen size.

Therefore, the visual quality will be degraded if the optimal resolution is not set for the panel size. It is recommended setting the resolution to the optimal resolution of the product.

If the signal from the PC is one of the following standard signal modes, the screen is set automatically. However, if the signal from the PC is not one of the following signal modes, a blank screen may be displayed or only the Power LED may be turned on. Therefore, configure it as follows referring to the User Manual of the graphics card.



For the optimal resolution, refer to the Specifications.

S19B350B

DISPLAY MODE	HORIZONTAL FREQUENCY (KHZ)	VERTICAL FREQUENCY (HZ)	PIXEL CLOCK (MHZ)	SYNC POLARITY (H/V)
IBM, 720 x 400	31.469	70.087	28.322	-/+
MAC, 640 x 480	35.000	66.667	30.240	-/-
MAC, 832 x 624	49.726	74.551	57.284	-/-
VESA, 640 x 480	31.469	59.940	25.175	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1280 x 720	45.000	60.000	74.250	+/+
VESA, 1366 x 768	47.712	59.790	85.500	+/+

Horizontal Frequency

The time taken to scan one line from the left-most position to the right-most position on the screen is called the horizontal cycle and the reciprocal of the horizontal cycle is called the horizontal frequency. The horizontal frequency is represented in kHz.

Vertical Frequency

A panel must display the same picture on the screen tens of times every second so that humans can see the picture. This frequency is called the vertical frequency. The vertical frequency is represented in Hz.

3-4 Standard Signal Mode Table



This product delivers the best picture quality when viewed under the optimal resolution setting. The optimal resolution is dependent on the screen size.

Therefore, the visual quality will be degraded if the optimal resolution is not set for the panel size. It is recommended setting the resolution to the optimal resolution of the product.

If the signal from the PC is one of the following standard signal modes, the screen is set automatically. However, if the signal from the PC is not one of the following signal modes, a blank screen may be displayed or only the Power LED may be turned on. Therefore, configure it as follows referring to the User Manual of the graphics card.



For the optimal resolution, refer to the Specifications.

S20B350H

DISPLAY MODE	HORIZONTAL FREQUENCY (KHZ)	VERTICAL FREQUENCY (HZ)	PIXEL CLOCK (MHZ)	SYNC POLARITY (H/V)
IBM, 720 x 400	31.469	70.087	28.322	-/+
MAC, 640 x 480	35.000	66.667	30.240	-/-
MAC, 832 x 624	49.726	74.551	57.284	-/-
MAC, 1152 x 870	68.681	75.062	100.000	-/-
VESA, 640 x 480	31.469	59.940	25.175	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1152 x 864	67.500	75.000	108.000	+/+
VESA, 1280 X 720	45.000	60.000	74.250	+/+
VESA, 1280 x 800	49.702	59.810	83.500	-/+
VESA, 1440 x 900	55.935	59.887	106.500	-/+
VESA, 1440 x 900	70.635	74.984	136.750	-/+
VESA, 1600 X 900	60.000	60.000	108.000	+/+

Horizontal Frequency

The time taken to scan one line from the left-most position to the right-most position on the screen is called the horizontal cycle and the reciprocal of the horizontal cycle is called the horizontal frequency. The horizontal frequency is represented in kHz.

Vertical Frequency

A panel must display the same picture on the screen tens of times every second so that humans can see the picture. This frequency is called the vertical frequency. The vertical frequency is represented in Hz.

3-5 Standard Signal Mode Table



This product delivers the best picture quality when viewed under the optimal resolution setting. The optimal resolution is dependent on the screen size.

Therefore, the visual quality will be degraded if the optimal resolution is not set for the panel size. It is recommended setting the resolution to the optimal resolution of the product.

If the signal from the PC is one of the following standard signal modes, the screen is set automatically. However, if the signal from the PC is not one of the following signal modes, a blank screen may be displayed or only the Power LED may be turned on. Therefore, configure it as follows referring to the User Manual of the graphics card.



For the optimal resolution, refer to the Specifications.

S22B350N

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

Horizontal Frequency

The time taken to scan one line from the left-most position to the right-most position on the screen is called the horizontal cycle and the reciprocal of the horizontal cycle is called the horizontal frequency. The horizontal frequency is represented in kHz.

Vertical Frequency

A panel must display the same picture on the screen tens of times every second so that humans can see the picture. This frequency is called the vertical frequency. The vertical frequency is represented in Hz.

3-6 Standard Signal Mode Table



This product delivers the best picture quality when viewed under the optimal resolution setting. The optimal resolution is dependent on the screen size.

Therefore, the visual quality will be degraded if the optimal resolution is not set for the panel size. It is recommended setting the resolution to the optimal resolution of the product.

If the signal from the PC is one of the following standard signal modes, the screen is set automatically. However, if the signal from the PC is not one of the following signal modes, a blank screen may be displayed or only the Power LED may be turned on. Therefore, configure it as follows referring to the User Manual of the graphics card.



For the optimal resolution, refer to the Specifications.

S22B350B

DISPLAY MODE	HORIZONTAL FREQUENCY (KHZ)	VERTICAL FREQUENCY (HZ)	PIXEL CLOCK (MHZ)	SYNC POLARITY (H/V)
IBM, 720 x 400	31.469	70.087	28.322	-/+
MAC, 640 x 480	35.000	66.667	30.240	-/-
MAC, 832 x 624	49.726	74.551	57.284	-/-
MAC, 1152 x 870	68.681	75.062	100.000	-/-
VESA, 640 x 480	31.469	59.940	25.175	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1152 x 864	67.500	75.000	108.000	+/+
VESA, 1280 x 720	45.000	60.000	74.250	+/+
VESA, 1280 x 800	49.702	59.810	83.500	-/+
VESA, 1280 x 1024	63.981	60.020	108.000	+/+
VESA, 1280 x 1024	79.976	75.025	135.000	+/+
VESA, 1440 x 900	55.935	59.887	106.500	-/+
VESA, 1600 x 900	60.000	60.000	108.000	+/+
VESA, 1680 x 1050	65.290	59.954	146.250	-/+
VESA, 1920 x 1080	67.500	60.000	148.500	+/+

Horizontal Frequency

The time taken to scan one line from the left-most position to the right-most position on the screen is called the horizontal cycle and the reciprocal of the horizontal cycle is called the horizontal frequency. The horizontal frequency is represented in kHz.

Vertical Frequency

A panel must display the same picture on the screen tens of times every second so that humans can see the picture. This frequency is called the vertical frequency. The vertical frequency is represented in Hz.

3-7 Standard Signal Mode Table



This product delivers the best picture quality when viewed under the optimal resolution setting. The optimal resolution is dependent on the screen size.

Therefore, the visual quality will be degraded if the optimal resolution is not set for the panel size. It is recommended setting the resolution to the optimal resolution of the product.

If the signal from the PC is one of the following standard signal modes, the screen is set automatically. However, if the signal from the PC is not one of the following signal modes, a blank screen may be displayed or only the Power LED may be turned on. Therefore, configure it as follows referring to the User Manual of the graphics card.



For the optimal resolution, refer to the Specifications.

S22B350H

DISPLAY MODE	HORIZONTAL FREQUENCY (KHZ)	VERTICAL FREQUENCY (HZ)	PIXEL CLOCK (MHZ)	SYNC POLARITY (H/V)
IBM, 720 x 400	31.469	70.087	28.322	-/+
MAC, 640 x 480	35.000	66.667	30.240	-/-
MAC, 832 x 624	49.726	74.551	57.284	-/-
MAC, 1152 x 870	68.681	75.062	100.000	-/-
VESA, 640 x 480	31.469	59.940	25.175	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1152 x 864	67.500	75.000	108.000	+/+
VESA, 1280 x 720	45.000	60.000	74.250	+/+
VESA, 1280 x 800	49.702	59.810	83.500	-/+
VESA, 1280 x 1024	63.981	60.020	108.000	+/+
VESA, 1280 x 1024	79.976	75.025	135.000	+/+
VESA, 1440 x 900	55.935	59.887	106.500	-/+
VESA, 1600 x 900	60.000	60.000	108.000	+/+
VESA, 1680 x 1050	65.290	59.954	146.250	-/+
VESA, 1920 x 1080	67.500	60.000	148.500	+/+

Horizontal Frequency

The time taken to scan one line from the left-most position to the right-most position on the screen is called the horizontal cycle and the reciprocal of the horizontal cycle is called the horizontal frequency. The horizontal frequency is represented in kHz.

Vertical Frequency

A panel must display the same picture on the screen tens of times every second so that humans can see the picture. This frequency is called the vertical frequency. The vertical frequency is represented in Hz.

3-8 Standard Signal Mode Table



This product delivers the best picture quality when viewed under the optimal resolution setting. The optimal resolution is dependent on the screen size.

Therefore, the visual quality will be degraded if the optimal resolution is not set for the panel size. It is recommended setting the resolution to the optimal resolution of the product.

If the signal from the PC is one of the following standard signal modes, the screen is set automatically. However, if the signal from the PC is not one of the following signal modes, a blank screen may be displayed or only the Power LED may be turned on. Therefore, configure it as follows referring to the User Manual of the graphics card.



For the optimal resolution, refer to the Specifications.

S23B350N

DISPLAY MODE	HORIZONTAL FREQUENCY (KHZ)	VERTICAL FREQUENCY (HZ)	PIXEL CLOCK (MHZ)	SYNC POLARITY (H/V)
IBM, 720 x 400	31.469	70.087	28.322	-/+
MAC, 640 x 480	35.000	66.667	30.240	-/-
MAC, 832 x 624	49.726	74.551	57.284	-/-
MAC, 1152 x 870	68.681	75.062	100.000	-/-
VESA, 640 x 480	31.469	59.940	25.175	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1152 x 864	67.500	75.000	108.000	+/+
VESA, 1280 x 720	45.000	60.000	74.250	+/+
VESA, 1280 x 800	49.702	59.810	83.500	-/+
VESA, 1280 x 1024	63.981	60.020	108.000	+/+
VESA, 1280 x 1024	79.976	75.025	135.000	+/+
VESA, 1440 x 900	55.935	59.887	106.500	-/+
VESA, 1600 x 900	60.000	60.000	108.000	+/+
VESA, 1680 x 1050	65.290	59.954	146.250	-/+
VESA, 1920 x 1080	67.500	60.000	148.500	+/+

Horizontal Frequency

The time taken to scan one line from the left-most position to the right-most position on the screen is called the horizontal cycle and the reciprocal of the horizontal cycle is called the horizontal frequency. The horizontal frequency is represented in kHz.

Vertical Frequency

A panel must display the same picture on the screen tens of times every second so that humans can see the picture. This frequency is called the vertical frequency. The vertical frequency is represented in Hz.

3-9 Standard Signal Mode Table



This product delivers the best picture quality when viewed under the optimal resolution setting. The optimal resolution is dependent on the screen size.

Therefore, the visual quality will be degraded if the optimal resolution is not set for the panel size. It is recommended setting the resolution to the optimal resolution of the product.

If the signal from the PC is one of the following standard signal modes, the screen is set automatically. However, if the signal from the PC is not one of the following signal modes, a blank screen may be displayed or only the Power LED may be turned on. Therefore, configure it as follows referring to the User Manual of the graphics card.



For the optimal resolution, refer to the Specifications.

S23B350B

DISPLAY MODE	HORIZONTAL FREQUENCY (KHZ)	VERTICAL FREQUENCY (HZ)	PIXEL CLOCK (MHZ)	SYNC POLARITY (H/V)
IBM, 720 x 400	31.469	70.087	28.322	-/+
MAC, 640 x 480	35.000	66.667	30.240	-/-
MAC, 832 x 624	49.726	74.551	57.284	-/-
MAC, 1152 x 870	68.681	75.062	100.000	-/-
VESA, 640 x 480	31.469	59.940	25.175	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1152 x 864	67.500	75.000	108.000	+/+
VESA, 1280 x 720	45.000	60.000	74.250	+/+
VESA, 1280 x 800	49.702	59.810	83.500	-/+
VESA, 1280 x 1024	63.981	60.020	108.000	+/+
VESA, 1280 x 1024	79.976	75.025	135.000	+/+
VESA, 1440 x 900	55.935	59.887	106.500	-/+
VESA, 1600 x 900	60.000	60.000	108.000	+/+
VESA, 1680 x 1050	65.290	59.954	146.250	-/+
VESA, 1920 x 1080	67.500	60.000	148.500	+/+

Horizontal Frequency

The time taken to scan one line from the left-most position to the right-most position on the screen is called the horizontal cycle and the reciprocal of the horizontal cycle is called the horizontal frequency. The horizontal frequency is represented in kHz.

Vertical Frequency

A panel must display the same picture on the screen tens of times every second so that humans can see the picture. This frequency is called the vertical frequency. The vertical frequency is represented in Hz.

3-10 Standard Signal Mode Table



This product delivers the best picture quality when viewed under the optimal resolution setting. The optimal resolution is dependent on the screen size.

Therefore, the visual quality will be degraded if the optimal resolution is not set for the panel size. It is recommended setting the resolution to the optimal resolution of the product.

If the signal from the PC is one of the following standard signal modes, the screen is set automatically. However, if the signal from the PC is not one of the following signal modes, a blank screen may be displayed or only the Power LED may be turned on. Therefore, configure it as follows referring to the User Manual of the graphics card.



For the optimal resolution, refer to the Specifications.

S23B350H

DISPLAY MODE	HORIZONTAL FREQUENCY (KHZ)	VERTICAL FREQUENCY (HZ)	PIXEL CLOCK (MHZ)	SYNC POLARITY (H/V)
IBM, 720 x 400	31.469	70.087	28.322	-/+
MAC, 640 x 480	35.000	66.667	30.240	-/-
MAC, 832 x 624	49.726	74.551	57.284	-/-
MAC, 1152 x 870	68.681	75.062	100.000	-/-
VESA, 640 x 480	31.469	59.940	25.175	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1152 x 864	67.500	75.000	108.000	+/+
VESA, 1280 x 720	45.000	60.000	74.250	+/+
VESA, 1280 x 800	49.702	59.810	83.500	-/+
VESA, 1280 x 1024	63.981	60.020	108.000	+/+
VESA, 1280 x 1024	79.976	75.025	135.000	+/+
VESA, 1440 x 900	55.935	59.887	106.500	-/+
VESA, 1600 x 900	60.000	60.000	108.000	+/+
VESA, 1680 x 1050	65.290	59.954	146.250	-/+
VESA, 1920 x 1080	67.500	60.000	148.500	+/+

Horizontal Frequency

The time taken to scan one line from the left-most position to the right-most position on the screen is called the horizontal cycle and the reciprocal of the horizontal cycle is called the horizontal frequency. The horizontal frequency is represented in kHz.

Vertical Frequency

A panel must display the same picture on the screen tens of times every second so that humans can see the picture. This frequency is called the vertical frequency. The vertical frequency is represented in Hz.

3-11 Standard Signal Mode Table



This product delivers the best picture quality when viewed under the optimal resolution setting. The optimal resolution is dependent on the screen size.

Therefore, the visual quality will be degraded if the optimal resolution is not set for the panel size. It is recommended setting the resolution to the optimal resolution of the product.

If the signal from the PC is one of the following standard signal modes, the screen is set automatically. However, if the signal from the PC is not one of the following signal modes, a blank screen may be displayed or only the Power LED may be turned on. Therefore, configure it as follows referring to the User Manual of the graphics card.



For the optimal resolution, refer to the Specifications.

S24B350BL

DISPLAY MODE HORIZONTAL FREQUENCY (KHZ) VERTICAL FREQUENCY (HZ) PIXEL CLOCK (MHZ) SYI IBM, 720 x 400 31.469 70.087 28.322 MAC, 640 x 480 35.000 66.667 30.240	NC POLARITY (H/V)
· · · · · · · · · · · · · · · · · · ·	_/+
MAC, 640 x 480 35.000 66.667 30.240	-/ '
	-/-
MAC, 832 x 624 49.726 74.551 57.284	-/-
MAC, 1152 x 870 68.681 75.062 100.000	-/-
VESA, 640 x 480 31.469 59.940 25.175	-/-
VESA, 640 x 480 37.861 72.809 31.500	-/-
VESA, 640 x 480 37.500 75.000 31.500	-/-
VESA, 800 x 600 35.156 56.250 36.000	+/+
VESA, 800 x 600 37.879 60.317 40.000	+/+
VESA, 800 x 600 48.077 72.188 50.000	+/+
VESA, 800 x 600 46.875 75.000 49.500	+/+
VESA, 1024 x 768 48.363 60.004 65.000	-/-
VESA, 1024 x 768 56.476 70.069 75.000	-/-
VESA, 1024 x 768 60.023 75.029 78.750	+/+
VESA, 1152 x 864 67.500 75.000 108.000	+/+
VESA, 1280 x 720 45.000 60.000 74.250	+/+
VESA, 1280 x 800 49.702 59.810 83.500	-/+
VESA, 1280 x 1024 63.981 60.020 108.000	+/+
VESA, 1280 x 1024 79.976 75.025 135.000	+/+
VESA, 1440 x 900 55.935 59.887 106.500	-/+
VESA, 1600 x 900 60.000 60.000 108.000	+/+
VESA, 1680 x 1050 65.290 59.954 146.250	-/+
VESA, 1920 x 1080 67.500 60.000 148.500	+/+

Horizontal Frequency

The time taken to scan one line from the left-most position to the right-most position on the screen is called the horizontal cycle and the reciprocal of the horizontal cycle is called the horizontal frequency. The horizontal frequency is represented in kHz.

Vertical Frequency

A panel must display the same picture on the screen tens of times every second so that humans can see the picture. This frequency is called the vertical frequency. The vertical frequency is represented in Hz.

3-12 Standard Signal Mode Table



This product delivers the best picture quality when viewed under the optimal resolution setting. The optimal resolution is dependent on the screen size.

Therefore, the visual quality will be degraded if the optimal resolution is not set for the panel size. It is recommended setting the resolution to the optimal resolution of the product.

If the signal from the PC is one of the following standard signal modes, the screen is set automatically. However, if the signal from the PC is not one of the following signal modes, a blank screen may be displayed or only the Power LED may be turned on. Therefore, configure it as follows referring to the User Manual of the graphics card.



For the optimal resolution, refer to the Specifications.

S24B350HL

DISPLAY MODE	HORIZONTAL FREQUENCY (KHZ)	VERTICAL FREQUENCY (HZ)	PIXEL CLOCK (MHZ)	SYNC POLARITY (H/V)
IBM, 720 x 400	31.469	70.087	28.322	-/+
MAC, 640 x 480	35.000	66.667	30.240	-/-
MAC, 832 x 624	49.726	74.551	57.284	-/-
MAC, 1152 x 870	68.681	75.062	100.000	-/-
VESA, 640 x 480	31.469	59.940	25.175	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1152 x 864	67.500	75.000	108.000	+/+
VESA, 1280 x 720	45.000	60.000	74.250	+/+
VESA, 1280 x 800	49.702	59.810	83.500	-/+
VESA, 1280 x 1024	63.981	60.020	108.000	+/+
VESA, 1280 x 1024	79.976	75.025	135.000	+/+
VESA, 1440 x 900	55.935	59.887	106.500	-/+
VESA, 1600 x 900	60.000	60.000	108.000	+/+
VESA, 1680 x 1050	65.290	59.954	146.250	-/+
VESA, 1920 x 1080	67.500	60.000	148.500	+/+

Horizontal Frequency

The time taken to scan one line from the left-most position to the right-most position on the screen is called the horizontal cycle and the reciprocal of the horizontal cycle is called the horizontal frequency. The horizontal frequency is represented in kHz.

Vertical Frequency

A panel must display the same picture on the screen tens of times every second so that humans can see the picture. This frequency is called the vertical frequency. The vertical frequency is represented in Hz.

3-13 Standard Signal Mode Table



This product delivers the best picture quality when viewed under the optimal resolution setting. The optimal resolution is dependent on the screen size.

Therefore, the visual quality will be degraded if the optimal resolution is not set for the panel size. It is recommended setting the resolution to the optimal resolution of the product.

If the signal from the PC is one of the following standard signal modes, the screen is set automatically. However, if the signal from the PC is not one of the following signal modes, a blank screen may be displayed or only the Power LED may be turned on. Therefore, configure it as follows referring to the User Manual of the graphics card.



For the optimal resolution, refer to the Specifications.

S24B350B

DISPLAY MODE	HORIZONTAL FREQUENCY (KHZ)	VERTICAL FREQUENCY (HZ)	PIXEL CLOCK (MHZ)	SYNC POLARITY (H/V)
IBM, 720 x 400	31.469	70.087	28.322	-/+
MAC, 640 x 480	35.000	66.667	30.240	-/-
MAC, 832 x 624	49.726	74.551	57.284	-/-
MAC, 1152 x 870	68.681	75.062	100.000	-/-
VESA, 640 x 480	31.469	59.940	25.175	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1152 x 864	67.500	75.000	108.000	+/+
VESA, 1280 x 720	45.000	60.000	74.250	+/+
VESA, 1280 x 800	49.702	59.810	83.500	-/+
VESA, 1280 x 1024	63.981	60.020	108.000	+/+
VESA, 1280 x 1024	79.976	75.025	135.000	+/+
VESA, 1440 x 900	55.935	59.887	106.500	-/+
VESA, 1600 x 900	60.000	60.000	108.000	+/+
VESA, 1680 x 1050	65.290	59.954	146.250	-/+
VESA, 1920 x 1080	67.500	60.000	148.500	+/+

Horizontal Frequency

The time taken to scan one line from the left-most position to the right-most position on the screen is called the horizontal cycle and the reciprocal of the horizontal cycle is called the horizontal frequency. The horizontal frequency is represented in kHz.

Vertical Frequency

A panel must display the same picture on the screen tens of times every second so that humans can see the picture. This frequency is called the vertical frequency. The vertical frequency is represented in Hz.

3-14 Standard Signal Mode Table



This product delivers the best picture quality when viewed under the optimal resolution setting. The optimal resolution is dependent on the screen size.

Therefore, the visual quality will be degraded if the optimal resolution is not set for the panel size. It is recommended setting the resolution to the optimal resolution of the product.

If the signal from the PC is one of the following standard signal modes, the screen is set automatically. However, if the signal from the PC is not one of the following signal modes, a blank screen may be displayed or only the Power LED may be turned on. Therefore, configure it as follows referring to the User Manual of the graphics card.



For the optimal resolution, refer to the Specifications.

S24B350H

DISPLAY MODE	HORIZONTAL FREQUENCY (KHZ)	VERTICAL FREQUENCY (HZ)	PIXEL CLOCK (MHZ)	SYNC POLARITY (H/V)
IBM, 720 x 400	31.469	70.087	28.322	-/+
MAC, 640 x 480	35.000	66.667	30.240	-/-
MAC, 832 x 624	49.726	74.551	57.284	-/-
MAC, 1152 x 870	68.681	75.062	100.000	-/-
VESA, 640 x 480	31.469	59.940	25.175	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1152 x 864	67.500	75.000	108.000	+/+
VESA, 1280 x 720	45.000	60.000	74.250	+/+
VESA, 1280 x 800	49.702	59.810	83.500	-/+
VESA, 1280 x 1024	63.981	60.020	108.000	+/+
VESA, 1280 x 1024	79.976	75.025	135.000	+/+
VESA, 1440 x 900	55.935	59.887	106.500	-/+
VESA, 1600 x 900	60.000	60.000	108.000	+/+
VESA, 1680 x 1050	65.290	59.954	146.250	-/+
VESA, 1920 x 1080	67.500	60.000	148.500	+/+

Horizontal Frequency

The time taken to scan one line from the left-most position to the right-most position on the screen is called the horizontal cycle and the reciprocal of the horizontal cycle is called the horizontal frequency. The horizontal frequency is represented in kHz.

Vertical Frequency

A panel must display the same picture on the screen tens of times every second so that humans can see the picture. This frequency is called the vertical frequency. The vertical frequency is represented in Hz.

3-15 Standard Signal Mode Table



This product delivers the best picture quality when viewed under the optimal resolution setting. The optimal resolution is dependent on the screen size.

Therefore, the visual quality will be degraded if the optimal resolution is not set for the panel size. It is recommended setting the resolution to the optimal resolution of the product.

If the signal from the PC is one of the following standard signal modes, the screen is set automatically. However, if the signal from the PC is not one of the following signal modes, a blank screen may be displayed or only the Power LED may be turned on. Therefore, configure it as follows referring to the User Manual of the graphics card.



For the optimal resolution, refer to the Specifications.

S27B350H

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VESA, 1920 x 1080	67.500	60.000	148.500	+/+

Horizontal Frequency

The time taken to scan one line from the left-most position to the right-most position on the screen is called the horizontal cycle and the reciprocal of the horizontal cycle is called the horizontal frequency. The horizontal frequency is represented in kHz.

Vertical Frequency

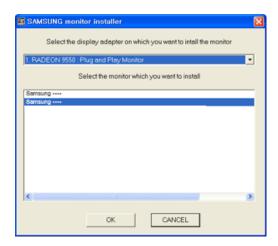
A panel must display the same picture on the screen tens of times every second so that humans can see the picture. This frequency is called the vertical frequency. The vertical frequency is represented in Hz.

3-16 Installing the Device Driver



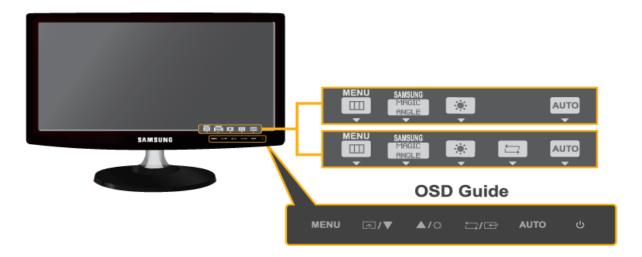
If the device driver is installed, you can set the resolution and frequency to the optimal configuration for the product. The device driver is included on the CD-ROM supplied with the product. If the supplied drive file is corrupted, please visit a service center or Samsung Electronics website(http://www.samsung.com/), and download the driver.

- 1. Insert the driver installation CD-ROM into the CD-ROM drive.
- 2. Click on "Windows Driver".
- **3.** Complete the remaining installation steps according to the instructions displayed on the screen.
- 4. Select the model of your product from the model list.



5. Check if the appropriate resolution and screen refresh rate are displayed in the Control Panel settings. For more information, refer to the document about the Windows operating system.

Product Operating Buttons





- · Press one of the buttons on the monitor. OSD Guide will appear on the screen.
- If you press a button on the front of the monitor, an OSD Guide will display showing the function of the button before the menu for the pressed button appears.
- To go to the menu, press the button on the front of the monitor again.
- OSD Guide may vary according to functions and models. Please refer to actual product.

ICON	DESCRIPTION
	Press this button to view the On Screen Display (OSD).
	This button is also used to exit the OSD or to return to a higher-level OSD menu
	* OSD Adjustment Lock
	This function locks the OSD in order to maintain the current settings or to prevent the settings from being changed by another person
MENU	On: If you press and hold the MENU button down for 10 seconds, the OSD Adjustment Lock function is activated.
	Off: If you press and hold the MENU button down for 10 seconds again, the OSD Adjustment Lock function is disabled.
	Even if the OSD Adjustment Lock function is activated, users can adjust the brightness and contrast and can set up the adjustment function assigned to the [].
	Users can set the <customized key=""> to one of the following functions. If the user presses the Customized Key [xz] after setting it, the configured function will be performed</customized>
元	 You can set the function of the Customized Key by selecting <setup&reset> -> <customized key=""> in the OSD.</customized></setup&reset>
	The function of the customized key can be changed by pressing the
	the customized key window.
▲ /▼	Use these buttons to navigate the menu or to adjust a value in the OSD.
Φ	Use this button to control the brightness of the screen.

ICON	DESCRIPTION	
≒/⊡	Use this button to select a function. If you press the [::] [::] button when there is no OSD, the input signal (Analog/DVI or Analog/HDMI) is switched. When the input signal is switched by pressing [::] button or the product is turned on, a message displaying the selected input signal appears at the top left of the screen. This function is not available for products with an Analog interface only.	
AUTO	Press [AUTO] button to adjust the screen settings automatically This function is only available in Analog mode. If the resolution settings are changed in the Display Properties, the AUTO adjustment function is performed.	
Q	Press this button to turn the product on or off The buttons on the right of the product are touch-type buttons. Touch the buttons lightly with your finger. Power LED This LED is turned on when the product works normally. For more information on the power-saving function, refer to the power saving function in More Information. When not using the product for a long time, unplugging the power cord is recommended to minimize power consumption.	

3-17

3-18 Using the Screen Adjustment Menu (OSD: On Screen Display)

The Screen Adjustment Menu (OSD: On Screen Display) Structure

TOP MENUS	SUB MENUS				
PICTURE	Brightness	Contrast	Sharpness	SAMSUNG MAGIC Bright	SAMSUNG Angle
	Coarse	Fine	Response Time	HDMI Black Level	
COLOR	SAMSUNG Color	Red	Green	Blue	Color Tone
	Gamma				
SIZE & POSI-	H-Position	V-Position	Image Size	Menu H-Position	Menu V-Position
0	Reset	Language	Eco Saving	Off Timer On/Off	Off Timer Setting
SETUP&RESET	PC/AV Mode	Key Repeat Time	Customized Key	Auto Source	Display Time
	Menu Transpar- ency				
INFORMA- TION					

8

Monitor functions may vary according to models. Please refer to actual product.

PICTURE



MENU	DESCRIPTION	
Brightness	Controls the screen brightness. This menu is unavailable when < SAMSUNG Bright> is set to < Dynamic Contrast> mode. This menu is unavailable when < Eco Saving> is set.	
Contrast	 Controls the contrast of the pictures displayed on the screen This menu is unavailable when < SAMSUNG MAGIC Bright> is set to <dynamic contrast=""> or <cinema> mode.</cinema></dynamic> This menu is unavailable when < SAMSUNG Color> is set to <full> mode or <intelligent> mode.</intelligent></full> 	

Using the product 3-18

MENU	DESCRIPTION
Sharpness	 Controls the clarity of details of pictures displayed on the screen This menu is unavailable when < SAMSUNG MAGIC Bright> is set to <dynamic contrast=""> or <cinema> mode.</cinema></dynamic> This menu is unavailable when < SAMSUNG MAGIC Color> is set to <full> mode or <intelligent> mode.</intelligent></full>
SAMSUNG MAGIC Bright	Provides preset picture settings optimized for various user environments such as editing a document, surfing the Internet, playing games,or movies and so on. - <custom> If the preset picture modes are not sufficient, users can configure the brightness> and <contrast> directly using this mode. - <standard> This mode provides the picture setting appropriate for editing a document and surfing the Internet (text + picture). - <game> This mode provides the picture setting appropriate for playing games that include lots of graphics and that require a fast screen refresh rate. - <cinema> This mode provides brightness and sharpness settings similar to those of a TV for the best entertainment environment (movie, DVD, etc.). - <dynamic contrast=""> Controls the picture contrast automatically so that bright and dark pictures are balanced overall. When the external input is connected through HDMI and <pc av="" mode=""> is set to <av>,</av></pc></dynamic></cinema></game></standard></contrast></custom>

3-18

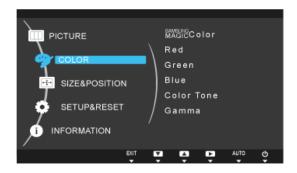
Using the product

MENU	DESCRIPTION
	This feature allows you to see optimal screen quality according to your viewing position. When viewing the screen at an angle from below, above or the side of the monitor, by setting the appropriate mode for each position you can obtain a similar picture quality as viewing the screen directly from the front.
	Set to <off> when viewing directly in front of the screen.</off>
	<off> 1 - Select when viewing from the front position.</off>
	<lean back="" mode1=""></lean>
	<lean back="" mode2=""></lean>
	<standing mode=""> 4 - Select when viewing from the upper position.</standing>
	<side mode=""></side>
	 <group view=""> - Select when two or more persons view among 1, 4, 5 position at the same time.</group>
samsung MAGIC Angle	 <custom> - When <custom> is selected, settings for <lean 1="" back="" mode=""> is applied by default.</lean></custom></custom> Users can set suitable picture quality as needed.
	This menu is unavailable when < MAGIC Bright> is set to <dynamic contrast=""> or <cinema> mode.</cinema></dynamic>
	This menu is unavailable when < MAGIC Color> is set.
	Removes vertical noise lines (line pattern) from the screen.
Coarse	The location of the screen may be changed after the adjustment. In this case, move the screen so that the screen is displayed at the center of the display panel using the <h-position> menu.</h-position>
	This function is only available in Analog mode.
	Removes horizontal noise lines (line pattern) from the screen.
Fine	If you cannot remove the noise completely with the <fine> function, adjust the <coarse> and then use the <fine> function again.</fine></coarse></fine>
	This function is only available in Analog mode.

Using the product 3-18

MENU	DESCRIPTION	
Response Time	Accelerates the response time of the panel faster than the original response time so that moving pictures appear sharper and more natural. • <normal> • <faster> • <fastest> It is recommended setting the <normal> or <faster> when not viewing a movie. • Monitor functions may vary according to models. Please refer to actual product. • User can choose the optimal mode from <normal> / <faster> / <fastest> ,according to the different input video signal.</fastest></faster></normal></faster></normal></fastest></faster></normal>	
HDMI Black Level	When watching with a DVD or set-top box connecting to the product via HDMI, image quality deterioration (black level, lower-quality contrast, lighter color tone, etc.) may occur depending on the connected external device. • <normal> • <low> This function is active only when the external device is connected via <hdmi>. The <hdmi black="" level=""> function may not be compatible with all external devices.</hdmi></hdmi></low></normal>	

COLOR



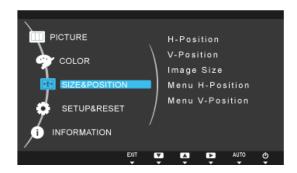
MENU	DESCRIPTION	
	Expresses natural colors more clearly without changing the picture quality using proprietary digital picture quality improvement technology developed by Samsung Electronics.	
	• <off> - Turns the < SAMSUNG Color> function off.</off>	
SAMSUNG Color MAGIC Color	 <demo> - You can compare the pictures processed by < MAGIC Color> with the original pictures.</demo> <full> - Provides a clearer picture including areas corresponding to skin color.</full> <intelligent> - Improves the chroma of pictures except for areas corresponding to skin color.</intelligent> 	
	This menu is unavailable when < SAMSUNG Angle> is set.	
	You can adjust the red color value of pictures according to your preference.	
Red	This menu is unavailable when < SAMSUNG Color> is set to <full> mode or <intelligent> mode.</intelligent></full>	
	You can adjust the green color value of pictures according to your preference.	
Green	This menu is unavailable when < SAMSUNG Color> is set to <full> mode or <intelligent> mode.</intelligent></full>	
	You can adjust the blue color value of pictures according to your preference.	
Blue	This menu is unavailable when < SAMSUNG Color> is set to <full> mode or <intelligent> mode.</intelligent></full>	
	You can set the color temperature according to your preference.	
	<cool 2=""> - Sets the color temperature of the screen to very cool.</cool>	
	<cool 1="">- Sets the color temperature of the screen to cool.</cool>	
	• <normal> - Sets the color temperature of the screen to the standard color temperature.</normal>	
	• <warm 1=""> - Sets the color temperature of the screen to warm.</warm>	
	• <warm 2=""> - Sets the color temperature of the screen to very warm.</warm>	
Color Tone	 <custom> - Select this menu to set the color temperature manually.</custom> If you do not like the preset color temperatures, you can manually adjust the value of RGB. 	
	When the external input is connected through HDMI and <pc av="" mode=""> is set to <av>, <color tone=""> has four color temperature settings (<cool>, <normal>, <warm> and <custom>).</custom></warm></normal></cool></color></av></pc>	
	This menu is unavailable when < MAGIC Color> is set to <full> mode or <intelligent> mode.</intelligent></full>	
	This menu is unavailable when < MAGIC Angle> is set.	
	Using this menu, you can change the intensity of the colors of medium brightness.	
Gamma	• <mode1> - <mode2> - <mode3></mode3></mode2></mode1>	
	This menu is unavailable when < MAGIC Angle> is set.	

0

This is unavailable when $< \frac{\text{SAMSUNG}}{\text{MAGIC}}$ Bright> is set to <Dynamic Contrast> and <Cinema> mode.

Using the product 3-18

■ SIZE & POSITION



MENU	DESCRIPTION	
	Moves the position of the display area on the screen horizontally.	
H-Position	 This function is only available in Analog mode. When a 720P or 1080P signal is input in AV mode ,select <screen fit=""> to adjust horizontal position in 0-6 levels.</screen> 	
	Moves the position of the display area on the screen vertically.	
V-Position	This function is only available in Analog mode.	
	When a 720P or 1080P signal is input in AV mode ,select <screen fit=""> to adjust vertical position in 0-6 levels.</screen>	
	Supplied for the wide models only such as 16:9 or 16:10. PC signals	
	• <auto> - The picture is displayed at the aspect ratio of the input signal.</auto>	
	 <	
	A signal not in the standard mode table is not supported.	
Image Size	 If the resolution is set to the optimal resolution, the aspect ratio does not change whether the <image size=""/> is set to <auto> or <wide>.</wide></auto> 	
	AV signals	
	• <4 : 3> - Displays pictures at the 4:3 aspect ratio.	
	<16 : 9> - Displays pictures at the 16:9 aspect ratio.	
	Screen Fit> - If a 720P or 1080P signal is input in HDMI/DVI input mode, the picture is displayed as is without truncation.	
	This can only be set when the external input is connected through HDMI/DVI and <pc av="" mode=""> is set to <av>.</av></pc>	
Menu H-Position	You can adjust the horizontal position of the OSD.	
Menu V-Position	You can adjust the vertical position of the OSD.	

SETUP&RESET



MENU	DESCRIPTION	
Reset	Use this function to restore the visual quality and color settings to the factory defaults. • <yes> - <no> Reset all settings? Yes No Auto O Auto O</no></yes>	
Language	Select a language for the OSD. • Deutsch, English,Español,Français,Italiano,Magyar,Polski, Português,Pyccкий,Svenska,Türkçe,日本語,한국어,汉语 The selected language is only applied to the product OSD. This setting does not affect the other functions of the PC.	
Eco Saving	This function provides user a low power mode which is realized by lowering the current of the display panel. • <75%> When <75%> is selected, the power consumption is about 75% of default setting. • <50%> When <50%> is selected, the power consumption is about 50% of default setting. • <off> When <off> is selected, the function is turned Off . This menu is unavailable when < SAMSUNG Bright> is set to <dynamic contrast=""> mode.</dynamic></off></off>	
Off Timer On/Off	Off Timer On/Off You can turn the Off Timer on or off. • <off> - <on></on></off>	
Off Timer Setting	 Turns the power off automatically when the configured time is reached. When <on> of <off off="" on="" timer=""> is selected, This function is available only.</off></on> For products for the market in Europe, the <off off="" on="" timer=""> is set to automatically activate 4 hours after the product powers on. This is done in accordance with power supply regulations. If you do not want the timer to activate, go to MENU → <setup&reset> and set <off off="" on="" timer=""> to <off>.</off></off></setup&reset></off> 	

Using the product 3-18

MENU	DESCRIPTION
PC/AV Mode	Set to PC when connected to a PC. Set to AV when connected to an AV device. This function does not support Analog mode. Supplied for the wide models only such as 16:9 or 16:10. If the monitor (when set to DVI or HDMI) is in power saving mode or is displaying the message <check cable="" signal="">, press the MENU button to display the On Screen Display (OSD). You can select <pc> or <av>.</av></pc></check>
Key Repeat Time	Controls the repeat delay of a button. You can set to <acceleration>, <1 sec> or <2 sec>. If <no repeat=""> is selected, the button only responds once.</no></acceleration>
Customized Key	You can set the function of the Customized Key to one of the following. • <pre>SAMSUNG Angle> - <pre>SAMSUNG Bright> - <eco saving=""> - <image size=""/></eco></pre></pre>
Auto Source	 <auto> - The monitor automatically selects an input signal.</auto> <manual> - Users have to manually select an input signal.</manual> Not applicable to analog (D-SUB)-or-digital (DVI)-dedicated models.
Display Time	The OSD automatically disappears if no action is taken by the user. You can determine the time to wait before the OSD is hidden. • <5 sec> - <10 sec> - <20 sec> - <200 sec>
Menu Transparency	You can select the transparency of the OSD. • <off> - <on></on></off>

INFORMATION



MENU	DESCRIPTION	
INFORMATION	Shows the frequency and resolution set on the PC. For models with an Analog interface only, <analog dvi="" hdmi=""> is not shown in the <information>.</information></analog>	

3-18 Using the product

3-19 Configuring Brightness and Contrast in the Initial Screen

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 [\blacktriangle / \blacktriangledown] buttons.

Using the product 3-19

4 Installing the Software

4-1 Natural Color

What is Natural Color?

This software works only for Samsung products and enables adjusting the displayed colors on the product and matches the colors on the product with the colors of the printed pictures. For more information, refer to the online help of the software (F1).

The Natural Color is provided online. You can download it from the website below and install;

http://www.samsung.com/us/consumer/learningresources/monitor/naturalcolorexpert/pop_download.html

4-1 Installing the Software

What is MagicTune?

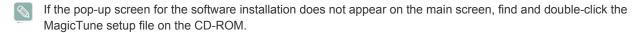


MagicTune is a software program that helps with monitor adjustments by providing comprehensive descriptions of monitor functions and easy-to-understand guidelines.

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

Installing the Software

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



- 3. Select the installation language and click [Next].
- 4. Complete the remaining software installation steps according to the instructions displayed on the screen.



- · The software may not work properly if you do not restart the computer after the installation.
- The MagicTune icon may not appear depending on the computer system and the product specifications.
- · If the shortcut icon does not appear, press the F5 key.

Restrictions and Problems with the Installation (MagicTune™)

The installation of MagicTune™may be affected by the graphics card, motherboard and the networking environment.

System Requirements

OS

· Windows XP, Windows Vista, Windows 7, Windows 8

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.

Installing the Software 4-2

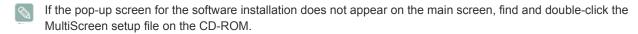
What is MultiScreen?



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

Installing the Software

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



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



- The software may not work properly if you do not restart the computer after the installation.
- The MultiScreen icon may not appear depending on the computer system and the product specifications.
- If the shortcut icon does not appear, press the F5 key.

Restrictions and Problems with the Installation (MultiScreen)

The MultiScreen installation may be affected by the graphics card, motherboard and the networking environment.

Operating System

os

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



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

Hardware

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

Removing the Software

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

Select MultiScreen from the program list and click the [Add/Delete] button.

4-3 Installing the Software

5 Troubleshooting

5-1 Monitor Self-Diagnosis



- You can check if the product is working properly using the Self-Diagnosis function.
- If a blank screen is displayed and the Power LED blinks even if the product and the PC are properly connected, perform the self-diagnosis function according to the procedures below.
- 1. Turn the product and the PC off.
- 2. Separate the signal cable from the product .
- 3. Turn the product on.
- **4.** If the product is working properly, the <Check Signal Cable> message appears.

 In this case, if a blank screen is displayed again, make sure that there is no problem with the PC and the connection. The product is working properly.

Troubleshooting 5-1



Please check the following before requesting After-Sales service. If the problem continues, please contact your nearest Samsung Electronics Service Center.

A BLANK SCREEN APPEARS / I CANNOT TURN THE PRODUCT ON		
Is the power cord connected properly?	Check the connection status of the power cord.	
Is the <check cable="" signal=""> message displayed on the</check>	(Connected using the D-sub cable)	
screen?	Check the cable connecting the PC and the product.	
	(Connected using the DVI cable)	
	If the message appears on the screen even if the cable is properly connected, recheck the input signal by pressing the [[]/[] button of the product.	
Is the <not mode="" optimum=""> message displayed on the screen?</not>	This occurs when the signal from the graphics card exceeds the maximum resolution or the maximum frequency of the product.	
	In this case, set up the appropriate resolution and the frequency for the product.	
Is a blank screen displayed and does the power LED blink at a 1 second interval?	 This occurs when the power saving function is running. If you click the mouse or press any key, the screen will be turned on. If the <check cable="" signal=""> condition persists for more than five minutes, the power saving function will be activated.</check> 	
Did you connect with a DVI cable?	If you connect the DVI cable when the PC has booted up or if you reconnect the DVI cable after disconnecting the cable while using a PC, the screen may not be displayed because some graphics cards do not output the video signal. In this case, reboot the PC while the DVI cable is connected.	
Blank spaces are found at the top and bottom of the screen	Blank spaces on the screen are not caused by the monitor.	
when an [HDMI] or [HDMI-DVI] cable is connected to the monitor and PC.	The cause of the problem is the PC or graphics card, and can be fixed by adjusting the screen size in the HDMI or DVI option of the graphics card settings menu.	
	If the graphics card settings menu has no option to adjust the screen size, update the graphics card driver to the latest version.	
	(Please contact the graphics card or computer manufacturer for details on how to adjust the screen settings.)	

THE IMAGE IS TOO LIGHT OR TOO DARK.

Adjust the <Brightness> and <Contrast>.

(Refer to the <Brightness>, <Contrast>)

The display brightness can differ according to the mode set for < MAGIC Angle>.

If < SAMSUNG Bright> is set to <Dynamic Contrast>, the display brightness can differ according to the input signal.

THE ON SCREEN ADJUSTMENT MENU (OSD) DOES NOT APPEAR.		
Did you cancel the screen adjustment? Check if the OSD Adjustment Lock function is set to Off.		

5-2 Troubleshooting

THE COLOR IS WEIRD / THE PICTURE	IS DISPLAYED IN BLACK AND WHITE	
Is the entire screen displayed in the same color as if viewing	Check the cable connection to the computer.	
the screen through a cellophane paper?	Reinsert the graphics card into the computer completely.	
Is the graphics card configured correctly?	Set up the graphics card referring to the user manual.	
THE DISPLAY AREA SUDDENLY MOV	ES TO AN EDGE OR TO THE CENTER.	
Did you change the graphics card or the driver?	Please press the [AUTO] button to run the auto adjustment function.	
Did you change the resolution and frequency appropriate to the product?	Set the resolution and the frequency to the appropriate values in the graphics card	
	refer to the (Standard Signal Mode Table)	
Is the graphics card configured correctly?	Set up the graphics card referring to the user manual.	
THE PICTURES AR	RE OUT-OF-FOCUS.	
Did you change the resolution and the frequency appropriate to the product?	Set the resolution and the frequency to the appropriate values in the graphics card	
	refer to the (Standard Signal Mode Table)	
	E COLOR HAS BEEN CHANGED AFTER CHANGING THE CS CARD.	
Did you install the device driver for the product?	Windows XP : Set the color again by selecting Control Panel → Appearance and Themes → Display → Settings.	
	Windows ME/2000 : Set the color again by selecting Control Panel \rightarrow Display \rightarrow Settings.	
	Windows Vista : Change the color settings by selecting Control Panel \rightarrow Appearance and Personalization \rightarrow Personalization \rightarrow Display settings.	
	Windows 7 : Change the color settings by selecting Control Panel → Appearance and Personalization → Display → Adjust resolution → Advanced settings → Monitor.	
	Windows 8 : Change the color settings by selecting Setting → Control Panel → Appearance and Personalization → Display → Adjust resolution → Advanced settings → Monitor.	
	(For more information, refer to the Windows user manual for the computer.)	
Is the graphics card configured correctly?	Configure the color again in accordance with the new graphics card driver.	
	ONITOR, PLUG&PLAY (VESA DDC) MONITOR FOUND'S DISPLAYED.	
Did you install the device driver for the product?	Install the device driver referring to the descriptions about the driver installation.	
Check if all the Plug&Play (VESA DDC) functions are supported referring to the User Manual of the graphics card. Install the device driver referring to the descriptions about the driver installation.		
WHEN I LOOK AT THE EXTERIOR EDGES OF THE PR	ODUCT, SMALL ALIEN SUBSTANCES APPEAR ON IT.	

Since this product is designed so that the color has a soft appearance by coating it with a transparent material over the black edges, such things may be seen. This is not a defect of the product.

A "BEEP, BEEP" SOUND IS HEARD WHEN BOOTING THE COMPUTER.

If the beep sound is generated 3 or more times when booting up the computer, please request service for the computer.

Troubleshooting 5-2

FAQ!	PLEASE TRY THE FOLLOWING!
How can I change the frequency?	You have to change the frequency of the graphics card.
	Windows XP : Change the frequency by selecting Control Panel \rightarrow Appearance and Themes \rightarrow Display \rightarrow Settings \rightarrow Advanced \rightarrow Monitor, and then change the refresh rate under Monitor Settings.
	Windows ME/2000 : Change the frequency by selecting Control Panel \rightarrow Display \rightarrow Settings \rightarrow Advanced \rightarrow Monitor, and then change the refresh rate under Monitor Settings.
	Windows Vista: Change the frequency by selecting Control Panel → Appearance and Personalization → Personalization → Display settings → Advanced settings → Monitor, and then change the refresh rate under Monitor Settings.
	Windows 7 : Change the frequency by selecting Control Panel \rightarrow Appearance and Personalization \rightarrow Display \rightarrow Adjust resolution \rightarrow Advanced settings \rightarrow Monitor, and then change the refresh rate under Monitor Settings.
	Windows 8 : Change the frequency by selecting Settings → Control Panel → Appearance and Personalization → Display → Adjust resolution → Advanced settings → Monitor, and then change the refresh rate under Monitor Settings.
	(For more information, refer to the User Manual of the computer or the graphics card.)

5-3 Troubleshooting

FAQ!	PLEASE TRY THE FOLLOWING!	
How can I change the resolution?	Windows XP : Change the resolution by selecting Control Panel → Appearance and Themes → Display → Settings.	
	Windows ME/2000 : Change the resolution by selecting Control Panel \to Display \to Settings.	
	Windows Vista : Change the resolution by selecting Control Panel → Appearance and Personalization → Personalization → Display settings.	
	Windows 7 : Change the resolution by selecting Control Panel \rightarrow Appearance and Personalization \rightarrow Display \rightarrow Adjust resolution.	
	Windows 8 : Change the resolution by selecting Settings → Control Panel → Appearance and Personalization → Display → Adjust resolution.	
	(For more information, refer to the User Manual of the computer or the graphics card.)	
How can I use the power saving function?	Windows XP : Configure it by selecting Control Panel → Appearance and Themes → Display → Screen Saver Setting or configure it in the BIOS Setup of the computer.	
	Windows ME/2000 : Configure it by selecting Control Panel → Display → Screen Saver Setting or Configure it in the BIOS Setup of the computer.	
	Windows Vista : Change settings by selecting Control Panel \rightarrow Appearance and Personalization \rightarrow Personalization \rightarrow Screen Saver. You can also use the BIOS SETUP menu on the PC.	
	Windows 7 : Change settings by selecting Control Panel \rightarrow Appearance and Personalization \rightarrow Personalization \rightarrow Screen Saver. You can also use the BIOS SETUP menu on the PC.	
	Windows 8 : Change settings by selecting Settings → Control Panel → Appearance and Personalization → Personalization → Screen Saver. You can also use the BIOS SETUP menu on the PC.	
	(For more information, refer to the User Manual of the computer or the graphics card.)	



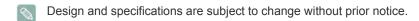
Refer to the user manual for your PC or graphics card for further instructions on adjustment.

Troubleshooting 5-3

6 More Information

6-1 Specifications

N	MODEL NAME	S19B350N	
Panel Size Display area		18.5 inches (47 cm)	
		409.8 mm (H) x 230.4 mm (V)	
	Pixel Pitch	0.300 mm (H) x 0.300 mm (V)	
Synchroniza-	Horizontal	30 ~ 81 kHz	
tion	Vertical	56 ~ 75 Hz	
Display Color		16.7M	
Resolution	Optimum resolution	1366 x 768 @ 60 Hz	
	Maximum resolution	1366 x 768 @ 60 Hz	
		RGB Analog	
Input Signal, To	erminated	0.7 Vp-p ± 5%	
input Oignai, 1	Cirilitated	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixe	l Clock	89MHz (Analog)	
Power Supply		This product supports 100-240 V.Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Signal Cable		15pin-to-15pin D-sub cable, Detachable	
Dimensions (W	/xHxD) / Weight	445 x 279 x 51 mm (17.5 x 11.0 x 2.0 inches) (Without Stand)	
		445 x 360 x 187 mm (17.5 x 14.2 x 7.4 inches) (With Stand) / 2.3 kg (5.1 lbs)	
Environmen-	Operating	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
tal consider- ations		Humidity :10 % ~ 80 %, non-condensing	
2.0110	Storage	Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
		Humidity: 5 % ~ 95 %, non-condensing	
Tilt		-1.0°(±2.0°) ~ 20.0°(±2.0°)	



This device is a Class B digital apparatus.

Panel Dots (Pixels)

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

(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

6-1 More Information

6-2 Power Saving Function

This monitor has a built-in power management system called PowerSaver. This system saves energy by switching your monitor to low-power mode when it has not been used for a certain amount of time. The monitor automatically returns to normal operation when you press a key on the keyboard. For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods. The PowerSaver system operates with a VESA DPM compliant video card installed in your computer. Use the software utility installed on your computer to set up this feature.

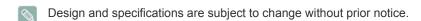
STATE	NORMAL OPERATION	POWER SAVING MODE	POWER OFF
Power Indicator	On	Blinking	Off
Power Consumption	20 watts	Typical 0.3 watts	Typical 0.3 watts



If there is no power cut-off switch, the power consumption is "0" only when the power cord is disconnected.

6-3 Specifications

1	MODEL NAME	S19B350B	
Panel	Size	18.5 inches(47 cm)	
Display area		409.8 mm (H) x 230.4 mm (V)	
	Pixel Pitch	0.300 mm (H) x0.300 mm (V)	
Synchroniza-	Horizontal	30 ~ 81 kHz	
tion	Vertical	56 ~ 75 Hz	
Display Color		16.7M	
Resolution	Optimum resolution	1366 x 768 @ 60 Hz	
	Maximum resolution	1366 x 768 @ 60 Hz	
Input Signal, Terminated		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB 0.7 Vp-p ± 5% separate H/V sync, Composite, SOG TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixe	l Clock	89MHz (Analog/Digital)	
Power Supply		This product supports 100-240 V.Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Signal Cable		15pin-to-15pin D-sub cable, Detachable DVI-D to DVI-D connector, Detachable	
Dimensions (W	/xHxD) / Weight	445 x 279 x 51 mm (17.5 x 11.0 x 2.0 inches) (Without Stand) 445 x 360 x 187 mm (17.5 x 14.2 x 7.4 inches) (With Stand) / 2.3 kg (5.1 lbs)	
Environmen- tal consider- ations	Operating	Operating Temperature :50°F ~ 104°F (10°C ~ 40°C) Humidity :10 % ~ 80 %, non-condensing	
auuris	Storage	Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Humidity : 5 % ~ 95 %, non-condensing	
Tilt		-1.0°(±2.0°) ~ 20.0°(±2.0°)	





Panel Dots (Pixels)

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

(USA ONLY)

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6-3 More Information

6-4 Power Saving Function

This monitor has a built-in power management system called PowerSaver. This system saves energy by switching your monitor to low-power mode when it has not been used for a certain amount of time. The monitor automatically returns to normal operation when you press a key on the keyboard. For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods. The PowerSaver system operates with a VESA DPM compliant video card installed in your computer. Use the software utility installed on your computer to set up this feature.

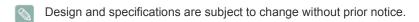
STATE	NORMAL OPERATION	POWER SAVING MODE	POWER OFF
Power Indicator	On	Blinking	Off
Power Consumption	20 watts	Typical 0.3 watts	Typical 0.3 watts



If there is no power cut-off switch, the power consumption is "0" only when the power cord is disconnected.

6-5 Specifications

ı	MODEL NAME	S20B350H		
Panel	Size	20 inches(50 cm)		
	Display area	442.80 mm (H) x 249.08 mm (V)		
	Pixel Pitch	0.27625 mm (H) x 0.27625 mm (V)		
Synchroniza-	Horizontal	30 ~ 81 kHz		
tion	Vertical	56 ~ 75 Hz		
Display Color		16.7M		
Resolution	Optimum resolution	1600 x 900 @ 60 Hz		
	Maximum resolution	1600 x 900 @ 60 Hz		
		RGB Analog, HDMI(High Definition Multimedia Interface)		
Innut Cianal T	arminatad	0.7 Vp-p ± 5%		
Input Signal, T	emmateu	separate H/V sync, Composite, SOG		
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)		
Maximum Pixe	l Clock	150MHz (Analog,HDMI)		
Power Supply		This product supports 100-240 V.Since the standard voltage may differ from country to country, please check the label on the back of the product.		
Signal Cable		15pin-to-15pin D-sub cable, Detachable		
		HDMI to DVI Cable, Detachable		
		HDMI Cable, Detachable		
Dimensions (W	/xHxD) / Weight	476 x 299 x 53 mm (18.7 x 11.8 x 2.1 inches) (Without Stand)		
		476 x 379 x 187 mm (18.7 x 14.9 x 7.4 inches) (With Stand) / 2.2 kg (4.9 lbs)		
Environmen-	Operating	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C)		
tal consider- ations		Humidity:10 % ~ 80 %, non-condensing		
auono	Storage	Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C)		
		Humidity: 5 % ~ 95 %, non-condensing		
Tilt		-1.0°(±2.0°) ~ 20.0°(±2.0°)		





Panel Dots (Pixels)

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

(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

6-5 More Information

6-6 Power Saving Function

This monitor has a built-in power management system called PowerSaver. This system saves energy by switching your monitor to low-power mode when it has not been used for a certain amount of time. The monitor automatically returns to normal operation when you press a key on the keyboard. For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods. The PowerSaver system operates with a VESA DPM compliant video card installed in your computer. Use the software utility installed on your computer to set up this feature.

STATE	NORMAL OPERATION	POWER SAVING MODE	POWER OFF
Power Indicator	On	Blinking	Off
Power Consumption	30 watts	Typical 0.3 watts	Typical 0.3 watts



If there is no power cut-off switch, the power consumption is "0" only when the power cord is disconnected.

6-7 Specifications

N	MODEL NAME	S22B350N	
Panel Size Display area		21.5 inches (54 cm)	
		476.64 mm (H) x 268.11 mm (V)	
	Pixel Pitch	0.24825 mm (H) x 0.24825 mm (V)	
Synchroniza-	Horizontal	30 ~ 81 kHz	
tion	Vertical	56 ~ 75 Hz	
Display Color		16.7M	
Resolution	Optimum resolution	1920 x 1080 @ 60 Hz	
	Maximum resolution	1920 x 1080 @ 60 Hz	
		RGB Analog	
Input Signal, To	erminated	0.7 Vp-p ± 5%	
input Oignai, 1	Similated	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixe	l Clock	164MHz (Analog)	
Power Supply		This product supports 100-240 V.Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Signal Cable		15pin-to-15pin D-sub cable, Detachable	
Dimensions (W	/xHxD) / Weight	510 x 319 x 53 mm (20.1 x 12.6 x 2.1 inches) (Without Stand)	
		510 x 398 x 195 mm (20.1 x 15.7 x 7.7 inches) (With Stand) / 2.8 kg (6.2 lbs)	
Environmen-	Operating	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
tal consider- ations		Humidity :10 % ~ 80 %, non-condensing	
	Storage	Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
		Humidity: 5 % ~ 95 %, non-condensing	
Tilt		-1.0°(±2.0°) ~ 20.0°(±2.0°)	





Panel Dots (Pixels)

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

(USA ONLY)

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6-7 More Information

6-8 Power Saving Function

This monitor has a built-in power management system called PowerSaver. This system saves energy by switching your monitor to low-power mode when it has not been used for a certain amount of time. The monitor automatically returns to normal operation when you press a key on the keyboard. For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods. The PowerSaver system operates with a VESA DPM compliant video card installed in your computer. Use the software utility installed on your computer to set up this feature.

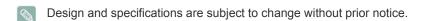
STATE	NORMAL OPERATION	POWER SAVING MODE	POWER OFF
Power Indicator	On	Blinking	Off
Power Consumption	30 watts	Typical 0.3 watts	Typical 0.3 watts



If there is no power cut-off switch, the power consumption is "0" only when the power cord is disconnected.

6-9 Specifications

MODEL NAME		S22B350B	
Panel	Size	21.5 inches (54 cm)	
	Display area	476.64 mm (H) x 268.11 mm (V)	
	Pixel Pitch	0.24825 mm (H) x 0.24825 mm (V)	
Synchroniza-	Horizontal	30 ~ 81 kHz	
tion	Vertical	56 ~ 75 Hz	
Display Color		16.7M	
Resolution	Optimum resolution	1920 x 1080 @ 60 Hz	
	Maximum resolution	1920 x 1080 @ 60 Hz	
		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB	
Input Signal, To	erminated	0.7 Vp-p ± 5%	
iliput Signal, Te	emmateu	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixe	l Clock	164MHz (Analog/Digital)	
Power Supply		This product supports 100-240 V.Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Signal Cable		15pin-to-15pin D-sub cable, Detachable	
		DVI-D to DVI-D connector, Detachable	
Dimensions (W	/xHxD) / Weight	510 x 319 x 53 mm (20.1 x 12.6 x 2.1 inches) (Without Stand)	
		510 x 398 x 195 mm (20.1 x 15.7 x 7.7 inches) (With Stand) / 2.8 kg (6.2 lbs)	
Environmen-	Operating	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
tal consider- ations		Humidity :10 % ~ 80 %, non-condensing	
	Storage	Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
		Humidity: 5 % ~ 95 %, non-condensing	
Tilt		-1.0°(±2.0°) ~ 20.0°(±2.0°)	





Panel Dots (Pixels)

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

(USA ONLY)

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

6-9 More Information

6-10 Power Saving Function

This monitor has a built-in power management system called PowerSaver. This system saves energy by switching your monitor to low-power mode when it has not been used for a certain amount of time. The monitor automatically returns to normal operation when you press a key on the keyboard. For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods. The PowerSaver system operates with a VESA DPM compliant video card installed in your computer. Use the software utility installed on your computer to set up this feature.

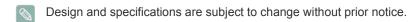
STATE	NORMAL OPERATION	POWER SAVING MODE	POWER OFF
Power Indicator	On	Blinking	Off
Power Consumption	30 watts	Typical 0.3 watts	Typical 0.3 watts



If there is no power cut-off switch, the power consumption is "0" only when the power cord is disconnected.

6-11 Specifications

MODEL NAME		S22B350H	
Panel Size		21.5 inches (54 cm)	
	Display area	476.64 mm (H) x 268.11 mm (V)	
	Pixel Pitch	0.24825 mm (H) x 0.24825 mm (V)	
Synchroniza-	Horizontal	30 ~ 81 kHz	
tion	Vertical	56 ~ 75 Hz	
Display Color		16.7M	
Resolution	Optimum resolution	1920 x 1080 @ 60 Hz	
	Maximum resolution	1920 x 1080 @ 60 Hz	
		RGB Analog, HDMI(High Definition Multimedia Interface)	
Innut Cianal T	arminatad	0.7 Vp-p ± 5%	
Input Signal, T	emmateu	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixe	l Clock	164MHz (Analog,HDMI)	
Power Supply		This product supports 100-240 V.Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Signal Cable		15pin-to-15pin D-sub cable, Detachable	
		HDMI to DVI Cable, Detachable	
		HDMI Cable, Detachable	
Dimensions (W	/xHxD) / Weight	510 x 319 x 53 mm (20.1 x 12.6 x 2.1 inches) (Without Stand)	
		510 x 398 x 195 mm (20.1 x 15.7 x 7.7 inches) (With Stand) / 2.8 kg (6.2 lbs)	
Environmen-	Operating	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
tal consider- ations		Humidity :10 % ~ 80 %, non-condensing	
alions	Storage	Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
		Humidity: 5 % ~ 95 %, non-condensing	
Tilt		-1.0°(±2.0°) ~ 20.0°(±2.0°)	





Panel Dots (Pixels)

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

(USA ONLY)

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6-11 More Information

6-12 Power Saving Function

This monitor has a built-in power management system called PowerSaver. This system saves energy by switching your monitor to low-power mode when it has not been used for a certain amount of time. The monitor automatically returns to normal operation when you press a key on the keyboard. For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods. The PowerSaver system operates with a VESA DPM compliant video card installed in your computer. Use the software utility installed on your computer to set up this feature.

STATE	NORMAL OPERATION	POWER SAVING MODE	POWER OFF
Power Indicator	On	Blinking	Off
Power Consumption	30 watts	Typical 0.3 watts	Typical 0.3 watts



If there is no power cut-off switch, the power consumption is "0" only when the power cord is disconnected.

6-13 Specifications

MODEL NAME		S23B350N		
Panel	Size	23 inches (58 cm)		
	Display area	509.76 mm (H) x 286.74 mm (V)		
	Pixel Pitch	0.2655 mm (H) x 0.2655 mm (V)		
Synchroniza-	Horizontal	30 ~ 81 kHz		
tion	Vertical	56 ~ 75 Hz		
Display Color		16.7M		
Resolution	Optimum resolution	1920 x 1080 @ 60 Hz		
	Maximum resolution	1920 x 1080 @ 60 Hz		
		RGB Analog		
Input Signal, Te	arminated	0.7 Vp-p ± 5%		
input Oignai, Te	Similated	separate H/V sync, Composite, SOG		
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)		
Maximum Pixe	Clock	164MHz (Analog)		
Power Supply		This product supports 100-240 V.Since the standard voltage may differ from country to country, please check the label on the back of the product.		
Signal Cable		15pin-to-15pin D-sub cable, Detachable		
Dimensions (W	/xHxD) / Weight	548 x 338 x 53 mm (21.6 x 13.3 x 2.1 inches) (Without Stand)		
		548 x 418 x 195 mm (21.6 x 16.5 x 7.7 inches) (With Stand) / 2.8 kg (6.2 lbs)		
Environmen-	Operating	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C)		
tal consider- ations		Humidity :10 % ~ 80 %, non-condensing		
3	Storage	Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C)		
		Humidity: 5 % ~ 95 %, non-condensing		
Tilt		-1.0°(±2.0°) ~ 20.0°(±2.0°)		





Panel Dots (Pixels)

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

(USA ONLY)

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

6-13 More Information

6-14 Power Saving Function

This monitor has a built-in power management system called PowerSaver. This system saves energy by switching your monitor to low-power mode when it has not been used for a certain amount of time. The monitor automatically returns to normal operation when you press a key on the keyboard. For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods. The PowerSaver system operates with a VESA DPM compliant video card installed in your computer. Use the software utility installed on your computer to set up this feature.

STATE	NORMAL OPERATION	POWER SAVING MODE	POWER OFF
Power Indicator	On	Blinking	Off
Power Consumption	30 watts	Typical 0.3 watts	Typical 0.3 watts



If there is no power cut-off switch, the power consumption is "0" only when the power cord is disconnected.

6-15 Specifications

1	MODEL NAME	S23B350B	
Panel Size		23 inches (58 cm)	
	Display area	509.76 mm (H) x 286.74 mm (V)	
	Pixel Pitch	0.2655 mm (H) x 0.2655 mm (V)	
Synchroniza-	Horizontal	30 ~ 81 kHz	
tion	Vertical	56 ~ 75 Hz	
Display Color		16.7M	
Resolution	Optimum resolution	1920 x 1080 @ 60 Hz	
	Maximum resolution	1920 x 1080 @ 60 Hz	
		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB	
Input Signal T	orminated	0.7 Vp-p ± 5%	
Input Signal, Terminated		separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixe	l Clock	164MHz (Analog/Digital)	
Power Supply		This product supports 100-240 V.Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Signal Cable		15pin-to-15pin D-sub cable, Detachable	
		DVI-D to DVI-D connector, Detachable	
Dimensions (V	/xHxD) / Weight	548 x 338 x 53 mm (21.6 x 13.3 x 2.1 inches) (Without Stand)	
		548 x 418 x 195 mm (21.6 x 16.5 x 7.7 inches) (With Stand) / 2.8 kg (6.2 lbs)	
Environmen- tal consider- ations	Operating	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
		Humidity :10 % ~ 80 %, non-condensing	
	Storage	Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
		Humidity: 5 % ~ 95 %, non-condensing	
Tilt		-1.0°(±2.0°) ~ 20.0°(±2.0°)	





Panel Dots (Pixels)

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

(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

6-15 More Information

6-16 Power Saving Function

This monitor has a built-in power management system called PowerSaver. This system saves energy by switching your monitor to low-power mode when it has not been used for a certain amount of time. The monitor automatically returns to normal operation when you press a key on the keyboard. For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods. The PowerSaver system operates with a VESA DPM compliant video card installed in your computer. Use the software utility installed on your computer to set up this feature.

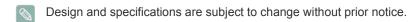
STATE	NORMAL OPERATION	POWER SAVING MODE	POWER OFF
Power Indicator	On	Blinking	Off
Power Consumption	30 watts	Typical 0.3 watts	Typical 0.3 watts



If there is no power cut-off switch, the power consumption is "0" only when the power cord is disconnected.

6-17 Specifications

MODEL NAME		S23B350H	
Panel	Size	23 inches (58 cm)	
	Display area	509.76 mm (H) x 286.74 mm (V)	
	Pixel Pitch	0.2655 mm (H) x 0.2655 mm (V)	
Synchroniza-	Horizontal	30 ~ 81 kHz	
tion	Vertical	56 ~ 75 Hz	
Display Color		16.7M	
Resolution	Optimum resolution	1920 x 1080 @ 60 Hz	
	Maximum resolution	1920 x 1080 @ 60 Hz	
		RGB Analog, HDMI(High Definition Multimedia Interface)	
Innut Cianal T	orminated	0.7 Vp-p ± 5%	
Input Signal, To	emmated	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixe	l Clock	164MHz (Analog,HDMI)	
Power Supply		This product supports 100-240 V.Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Signal Cable		15pin-to-15pin D-sub cable, Detachable	
		HDMI to DVI Cable, Detachable	
		HDMI Cable, Detachable	
Dimensions (W	/xHxD) / Weight	548 x 338 x 53 mm (21.6 x 13.3 x 2.1 inches) (Without Stand)	
		548 x 418 x 195 mm (21.6 x 16.5 x 7.7 inches) (With Stand) / 2.8 kg (6.2 lbs)	
Environmen-	Operating	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
tal consider- ations		Humidity :10 % ~ 80 %, non-condensing	
ations	Storage	Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
		Humidity: 5 % ~ 95 %, non-condensing	
Tilt		-1.0°(±2.0°) ~ 20.0°(±2.0°)	





Panel Dots (Pixels)

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

(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

6-17 More Information

6-18 Power Saving Function

This monitor has a built-in power management system called PowerSaver. This system saves energy by switching your monitor to low-power mode when it has not been used for a certain amount of time. The monitor automatically returns to normal operation when you press a key on the keyboard. For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods. The PowerSaver system operates with a VESA DPM compliant video card installed in your computer. Use the software utility installed on your computer to set up this feature.

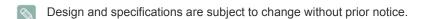
STATE	NORMAL OPERATION	POWER SAVING MODE	POWER OFF
Power Indicator	On	Blinking	Off
Power Consumption	30 watts	Typical 0.3 watts	Typical 0.3 watts



If there is no power cut-off switch, the power consumption is "0" only when the power cord is disconnected.

6-19 Specifications

MODEL NAME		S24B350BL			
Panel	Size	23.6 inches (59 cm)			
	Display area	521.28 mm (H) x 293.22 mm (V)			
	Pixel Pitch	0.2715 mm (H) x0.2715 mm (V)			
Synchroniza-	Horizontal	30 ~ 81 kHz			
tion	Vertical	56 ~ 75 Hz			
Display Color		16.7M			
Resolution	Optimum resolution	1920 x 1080 @ 60 Hz			
	Maximum resolution	1920 x 1080 @ 60 Hz			
		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB			
Input Signal, T	formingted	0.7 Vp-p ± 5%			
iliput Signal, 1	emmateu	separate H/V sync, Composite, SOG			
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)			
Maximum Pixe	el Clock	164MHz (Analog/Digital)			
Power Supply		This product supports 100-240 V.Since the standard voltage may differ from country to country, please check the label on the back of the product.			
Signal Cable		15pin-to-15pin D-sub cable, Detachable			
		DVI-D to DVI-D connector, Detachable			
Dimensions (V	VxHxD) / Weight	569 x 349 x 53 mm (22.4 x 13.7 x 2.1 inches) (Without Stand)			
		569 x 429 x 195 mm (22.4 x 16.9 x 7.7 inches) (With Stand) / 3.7 kg (8.2 lbs)			
Environmen-	Operating	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C)			
tal consider- ations		Humidity :10 % ~ 80 %, non-condensing			
	Storage	Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C)			
		Humidity: 5 % ~ 95 %, non-condensing			
Tilt		-1.0°(±2.0°) ~ 20.0°(±2.0°)			





Panel Dots (Pixels)

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

(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

6-19 More Information

6-20 Power Saving Function

This monitor has a built-in power management system called PowerSaver. This system saves energy by switching your monitor to low-power mode when it has not been used for a certain amount of time. The monitor automatically returns to normal operation when you press a key on the keyboard. For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods. The PowerSaver system operates with a VESA DPM compliant video card installed in your computer. Use the software utility installed on your computer to set up this feature.

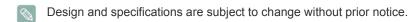
STATE	NORMAL OPERATION	POWER SAVING MODE	POWER OFF
Power Indicator	On	Blinking	Off
Power Consumption	30 watts	Typical 0.3 watts	Typical 0.3 watts



If there is no power cut-off switch, the power consumption is "0" only when the power cord is disconnected.

6-21 Specifications

N	MODEL NAME	S24B350HL	
Panel Size		23.6 inches (59 cm)	
	Display area	521.28 mm (H) x 293.22 mm (V)	
	Pixel Pitch	0.2715 mm (H) x 0.2715 mm (V)	
Synchroniza-	Horizontal	30 ~ 81 kHz	
tion	Vertical	56 ~ 75 Hz	
Display Color		16.7M	
Resolution	Optimum resolution	1920 x 1080 @ 60 Hz	
	Maximum resolution	1920 x 1080 @ 60 Hz	
Input Signal, Terminated		RGB Analog, HDMI(High Definition Multimedia Interface) 0.7 Vp-p ± 5% separate H/V sync, Composite, SOG TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixe	l Clock	164MHz (Analog,HDMI)	
Power Supply		This product supports 100-240 V.Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Signal Cable		15pin-to-15pin D-sub cable, Detachable HDMI to DVI Cable, Detachable HDMI Cable, Detachable	
Dimensions (WxHxD) / Weight		569 x 349 x 53 mm (22.4 x 13.7 x 2.1 inches) (Without Stand) 569 x 429 x 195 mm (22.4 x 16.9 x 7.7 inches) (With Stand) / 8.2 lbs (3.7 kg)	
Environmen- tal consider- ations	Operating	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Humidity :10 % ~ 80 %, non-condensing	
	Storage	Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Humidity : 5 % ~ 95 %, non-condensing	
Tilt		-1.0°(±2.0°) ~ 20.0°(±2.0°)	





Panel Dots (Pixels)

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

(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

6-21 More Information

6-22 Power Saving Function

This monitor has a built-in power management system called PowerSaver. This system saves energy by switching your monitor to low-power mode when it has not been used for a certain amount of time. The monitor automatically returns to normal operation when you press a key on the keyboard. For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods. The PowerSaver system operates with a VESA DPM compliant video card installed in your computer. Use the software utility installed on your computer to set up this feature.

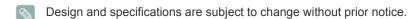
STATE	NORMAL OPERATION	POWER SAVING MODE	POWER OFF
Power Indicator	On	Blinking	Off
Power Consumption	30 watts	Typical 0.3 watts	Typical 0.3 watts



If there is no power cut-off switch, the power consumption is "0" only when the power cord is disconnected.

6-23 Specifications

MODEL NAME		S24B350B			
Panel	Size	24 inches (61 cm)			
	Display area	531.36 mm (H) x 298.89 mm (V)			
	Pixel Pitch	0.27675 mm (H) x 0.27675 mm (V)			
Synchroniza-	Horizontal	30 ~ 81 kHz			
tion	Vertical	56 ~ 75 Hz			
Display Color		16.7M			
Resolution	Optimum resolution	1920 x 1080 @ 60 Hz			
	Maximum resolution	1920 x 1080 @ 60 Hz			
		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB			
Input Signal, To	erminated	0.7 Vp-p ± 5%			
iliput Signal, 11	emmateu	separate H/V sync, Composite, SOG			
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)			
Maximum Pixe	l Clock	164MHz (Analog/Digital)			
Power Supply		This product supports 100-240 V.Since the standard voltage may differ from country to country, please check the label on the back of the product.			
Signal Cable		15pin-to-15pin D-sub cable, Detachable			
		DVI-D to DVI-D connector, Detachable			
Dimensions (W	/xHxD) / Weight	569 x 349 x 53 mm (22.4 x 13.7 x 2.1 inches) (Without Stand)			
		569 x 429 x 195 mm (22.4 x 16.9 x 7.7 inches) (With Stand) / 3.3 kg (7.3 lbs)			
Environmen-	Operating	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C)			
tal consider- ations		Humidity :10 % ~ 80 %, non-condensing			
	Storage	Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C)			
		Humidity: 5 % ~ 95 %, non-condensing			
Tilt		-1.0°(±2.0°) ~ 20.0°(±2.0°)			





Panel Dots (Pixels)

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

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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

6-23 More Information

6-24 Power Saving Function

This monitor has a built-in power management system called PowerSaver. This system saves energy by switching your monitor to low-power mode when it has not been used for a certain amount of time. The monitor automatically returns to normal operation when you press a key on the keyboard. For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods. The PowerSaver system operates with a VESA DPM compliant video card installed in your computer. Use the software utility installed on your computer to set up this feature.

STATE	NORMAL OPERATION	POWER SAVING MODE	POWER OFF
Power Indicator	On	Blinking	Off
Power Consumption	30 watts	Typical 0.3 watts	Typical 0.3 watts



If there is no power cut-off switch, the power consumption is "0" only when the power cord is disconnected.

6-25 Specifications

MODEL NAME		S24B350H			
Panel Size		24 inches (61 cm)			
	Display area	531.36 mm (H) x 298.89 mm (V)			
	Pixel Pitch	0.27675 mm (H) x 0.27675 mm (V)			
Synchroniza-	Horizontal	30 ~ 81 kHz			
tion	Vertical	56 ~ 75 Hz			
Display Color		16.7M			
Resolution	Optimum resolution	1920 x 1080 @ 60 Hz			
	Maximum resolution	1920 x 1080 @ 60 Hz			
		RGB Analog, HDMI			
Innut Cianal T	orminate d	0.7 Vp-p ± 5%			
Input Signal, T	erminated	separate H/V sync, Composite, SOG			
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)			
Maximum Pixe	l Clock	164MHz (Analog,HDMI)			
Power Supply		This product supports 100-240 V.Since the standard voltage may differ from country to country, please check the label on the back of the product.			
Signal Cable		15pin-to-15pin D-sub cable, Detachable			
		HDMI to DVI-D connector, Detachable			
		HDMI Cable, Detachable			
Dimensions (W	/xHxD) / Weight	569 x 349 x 53 mm (22.4 x 13.7 x 2.1 inches) (Without Stand)			
		569 x 429 x 195 mm (22.4 x 16.9 x 7.7 inches) (With Stand) / 3.3 kg (7.3 lbs)			
Environmen-	Operating	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C)			
tal consider- ations		Humidity :10 % ~ 80 %, non-condensing			
auono	Storage	Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C)			
		Humidity: 5 % ~ 95 %, non-condensing			
Tilt		-1.0°(±2.0°) ~ 20.0°(±2.0°)			





Panel Dots (Pixels)

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

(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

6-25 More Information

6-26 Power Saving Function

This monitor has a built-in power management system called PowerSaver. This system saves energy by switching your monitor to low-power mode when it has not been used for a certain amount of time. The monitor automatically returns to normal operation when you press a key on the keyboard. For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods. The PowerSaver system operates with a VESA DPM compliant video card installed in your computer. Use the software utility installed on your computer to set up this feature.

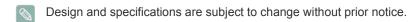
STATE	NORMAL OPERATION	POWER SAVING MODE	POWER OFF
Power Indicator	On	Blinking	Off
Power Consumption	30 watts	Typical 0.3 watts	Typical 0.3 watts



If there is no power cut-off switch, the power consumption is "0" only when the power cord is disconnected.

6-27 Specifications

MODEL NAME		S27B350H		
Panel Size		27 inches (68 cm)		
	Display area	597.89 mm (H) x 336.31 mm (V)		
	Pixel Pitch	0.3114 mm (H) x 0.3114 mm (V)		
Synchroniza-	Horizontal	30 ~ 81 kHz		
tion	Vertical	56 ~ 75 Hz		
Display Color		16.7M		
Resolution	Optimum resolution	1920 x 1080 @ 60 Hz		
	Maximum resolution	1920 x 1080 @ 60 Hz		
		RGB Analog, HDMI		
Innut Cianal T	arminatad	0.7 Vp-p ± 5%		
Input Signal, T	erminated	separate H/V sync, Composite, SOG		
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)		
Maximum Pixe	l Clock	164MHz (Analog,HDMI)		
Power Supply		This product supports 100-240 V.Since the standard voltage may differ from country to country, please check the label on the back of the product.		
Signal Cable		15pin-to-15pin D-sub cable, Detachable		
		HDMI to DVI-D connector, Detachable		
		HDMI Cable, Detachable		
Dimensions (W	/xHxD) / Weight	643 x 398 x 55 mm (25.3 x 15.7 x 2.2 inches) (Without Stand)		
		643 x 470 x 252 mm (25.3 x 18.5 x 9.9 inches) (With Stand) / 4.2 kg (9.3 lbs)		
Environmen-	Operating	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C)		
tal consider- ations		Humidity :10 % ~ 80 %, non-condensing		
auono	Storage	Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C)		
		Humidity: 5 % ~ 95 %, non-condensing		
Tilt		-1.0°(±2.0°) ~ 20.0°(±2.0°)		





Panel Dots (Pixels)

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

(USA ONLY)

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

6-27 More Information

6-28 Power Saving Function

This monitor has a built-in power management system called PowerSaver. This system saves energy by switching your monitor to low-power mode when it has not been used for a certain amount of time. The monitor automatically returns to normal operation when you press a key on the keyboard. For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods. The PowerSaver system operates with a VESA DPM compliant video card installed in your computer. Use the software utility installed on your computer to set up this feature.

STATE	NORMAL OPERATION	POWER SAVING MODE	POWER OFF
Power Indicator	On	Blinking	Off
Power Consumption	40 watts	Typical 0.5 watts	Typical 0.5 watts



If there is no power cut-off switch, the power consumption is "0" only when the power cord is disconnected.

0

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

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U.S.A	1-800-SAMSUNG (726-7864)	http://www.samsung.com		
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MEXICO	01-800-SAMSUNG (726-7864)	http://www.samsung.com		
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BOLIVIA	800-10-7260	http://www.samsung.com		
BRAZIL	0800-124-421 4004-0000	http://www.samsung.com		
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EL SALVADOR	800-6225	http://www.samsung.com/latin (Spanish) http://www.samsung.com/latin_en (English)		
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JAMAICA	1-800-234-7267	http://www.samsung.com		

6-29 More Information

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		(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	
		I
AUSTRIA	0810 - SAMSUNG (7267864, € 0.07/min)	http://www.samsung.com
BELGIUM	02-201-24-18	http://www.samsung.com/be (Dutch)
BELGIOW	02-201-24-10	http://www.samsung.com/be_fr
		(French)
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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

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	ASIA PACIFIC	
HONG KONG	(852) 3698 4698	http://www.samsung.com/hk (Chinese http://www.samsung.com/hk_en (English)
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	http://www.samsung.com
	1-800-3-SAMSUNG (726-7864) for Digitel 1-800-8-SAMSUNG (726-7864) for Globe 02-5805777	
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
	MIDDLE 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)
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
SAUDI ARABIA	9200-21230	(Arabic) http://www.samsung.com/ae(English) http://www.samsung.com/ae_ar (Arabic)

MIDDLE EAST				
TURKEY	444 77 11	http://www.samsung.com		
U.A.E	800-SAMSUNG (726-7864)	http://www.samsung.com		
	AFRICA			
ANGOLA	91-726-7864	http://www.samsung.com		
BOTSWANA	0800-726-000	http://www.samsung.com		
CAMEROON	7095- 0077	http://www.samsung.com		
COTE D' IVOIRE	8000 0077	http://www.samsung.com		
GHANA	0800-10077	http://www.samsung.com		
	0302-200077			
KENYA	0800 724 000	http://www.samsung.com		
NAMIBIA	8197267864	http://www.samsung.com		
NIGERIA	0800-726-7864	http://www.samsung.com		
SENEGAL	800-00-0077	http://www.samsung.com		
SOUTH AFRICA	0860-SAMSUNG (726-7864)	http://www.samsung.com		
TANZANIA	0685 88 99 00	http://www.samsung.com		
UGANDA	0800 300 300	http://www.samsung.com		
ZAMBIA	211350370	http://www.samsung.com		

6-29 More Information

6-30 Responsibility for the Pay Service (Cost to Customers)



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

Not a product defect

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

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

A Product damage caused by customer's fault

Product damage caused by customer's mishandling or wrong repair

If a product damage is caused by;

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

Others

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



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

6-31 Correct Disposal of This Product (Waste Electrical & Electronic Equipment)



(Applicable in the European Union and other European countries with separate collection systems)

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

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

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

6-31 More Information