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.



Table Of Contents

MAJOR SAFETY PRECAUTIONS	
Before You Start Custody and Maintenance Cleaning the Monitor Safety Precautions	1-2 1-3
INSTALLING THE PRODUCT	
Package Contents Installing the Stand Connecting the monitor Kensington Lock	2-2 2-3
USING THE PRODUCT	
Setting the Optimal Resolution Standard Signal Mode Table Installing the Device Driver Product Operating Buttons Using the Screen Adjustment Menu (OSD: On Screen Display) Configuring Brightness and Contrast in the Initial Screen	3-2 3-3 3-4 3-5 3-6 3-7 3-8 3-9 3-10 3-11 3-12 3-13 3-14 3-15 3-16 3-17 3-18 3-19 3-20
INSTALLING THE SOFTWARE Natural Color	4-2
Monitor Self-Diagnosis	

MORE INFORMATION

Specifications 6-1
Power Saving Function 6-2
Specifications
Power Saving Function 6-4
Specifications
Power Saving Function 6-6
Specifications
Power Saving Function 6-8
Specifications
Power Saving Function 6-10
Specifications
Power Saving Function 6-12
Specifications
Power Saving Function 6-14
Specifications
Power Saving Function 6-16
Specifications
Power Saving Function 6-18
Specifications
Power Saving Function 6-20
Specifications
Power Saving Function 6-22
Specifications
Power Saving Function 6-24
Specifications
Power Saving Function 6-26
Specifications
Power Saving Function 6-28
Specifications
Power Saving Function 6-30
Specifications
Power Saving Function 6-32
Contact SAMSUNG WORLDWIDE 6-33
Responsibility for the Pay Service (Cost to Customers) $\ \ldots \ 6-34$
Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

1 Major Safety Precautions

1-1 Before You Start

Icons used in this manual

ICON	NAME	MEANING
A Res	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 centre and there is no defect in the product(i.e. where you have failed to read this user manual).
- · The amount of such administration charge will be advised to you before any work or home visit is carried out.

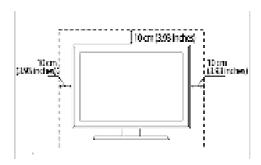
Major Safety Precautions 1-1

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.

1-3 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 using a soft, slightly damp cloth that has been squeezed .



Do not use a cleaning agent that contains alcohol or solvents, or that is surface active.
 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
A	Warning	Failing to follow the precautions marked with this sign, may result in a serious injury or even a fatality.
A	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 product image used in the following pictures for your reference may look different from the actual product.



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.

Otherwise, it may result in fire.



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

Otherwise, it may result in electric shock.



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



 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 our company. In addition, do not use the power cord of another electric appliance.

Otherwise, it may result in electric shock or fire.

Connect the power plug to a wall outlet that can be easily reached.

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



Installation Related



Warning



Avoid placing burning candles, mosquitorepellent or cigarettes 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 the wall.





Keep a distance of at least 10 cm from the wall when installing the product for ventilation.

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



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

Avoid installing the product in a badly-ventilated

location such as inside a bookshelf or closet.

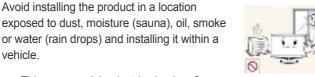
If children place the plastic bags over their heads, they may suffocate.



Avoid installing the product in a location that is unstable or exposed to excessive vibrations such as on an unstable or slanted shelf.

- 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.

Avoid installing the product in a location exposed to direct sunlight and installing the



This may result in electric shock or fire.



heater.

This may shorten the product life cycle or cause fire.

product near a heat source such as a fire or



Avoid installing the product at an easily reachable height where children may reach it.

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



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

Major Safety Precautions 1-4

Caution



Do not let the product drop while moving it.

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



Do not place the product face down on the floor.

When putting the product down, handle it

• This may damage the panel of the product.



When installing the product on a console or shelf, make sure that the front of the product does not protrude out of the console or shelf.

- Otherwise, this may cause the product to fall off and result in a malfunction or injury.
- Make sure to use a cabinet or shelf suitable to the size of the product.



gently.

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



If the product is installed in a location where the operating conditions vary considerably, a serious quality problem may occur due to the surrounding environment. In this case, install the product only after consulting one of our service engineers about the matter.

 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.

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.

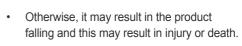


If the product generates a strange noise, a burning smell, or smoke, unplug the power plug immediately and contact a service center.

Otherwise, it may result in electric shock or fire.



Avoid letting children to hang or climb onto the product.





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.



shock.

During a lightning or thunderstorm, power off

the product and remove the power cable.

Otherwise, it may result in electric shock or



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.

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

Otherwise, it may result in electric shock or fire.





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

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



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.

This may result in an explosion or fire.



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



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

screensaver to the moving picture mode.

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



Set the appropriate resolution and frequency for the product.

Otherwise, it may result in eye strain.



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

This may cause the product to fall resulting



Do not place the adapter on top of another adapter.

Otherwise, it may result in fire.



Keep power adaptor away from any other heat source.

in damage to the product or injury.

using the adaptor.

Remove the vinyl cover of the adapter before

Otherwise, it may result in fire.



Always keep power adaptor in well-ventilated area.

Otherwise, it may result in fire.

Major Safety Precautions 1-4



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.



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



Avoid using a humidifier or cooker near the product.

 Otherwise, it may result in electric shock or fire



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.

Keep small accessories away from the children.



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



Avoid placing a heavy object over the product.

0

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.



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 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.

1-4 Major Safety Precautions

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	Warranty Card (Not available in all locations)	User Manual	Stand			
Stand Connector	DC-Adapter	Power Cord				
	OP1	TION				
HDMI Cable	HDMI to DVI Cable	D-Sub Cable	DVI Cable			

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

Installing the Product 2-1

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.



- 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.

Installing the Product 2-2

Connecting with a PC

- The connecting part may differ depending on the product model.
 - Do not connect the power cable until all connections are completed.
- 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.

2-3 Installing the Product

•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.

Installing the Product 2-3

Connecting with a Video Device

Do not connect the power cable until all connections are completed.

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



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

2-3 Installing the Product

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(1).
- **4.** Lock the lock().
 - 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.

Installing the Product 2-4

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.

S19B300N

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.

S19B300B

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

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.

S19B300NW

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, 1440 x 900	70.635	74.984	136.750	-/+

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.

S20B300N

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

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.

S20B300B

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.

3-7 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.

S22B300N

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

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.

S22B300B

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.

S22B300H

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

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.

S23B300N

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.

S23B300B

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

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.

S23B300H

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.

S24B300BL

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

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.

S24B300HL

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.

S24B300N

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

3-16 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.

S24B300B

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.

3-17 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.

S24B300H

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

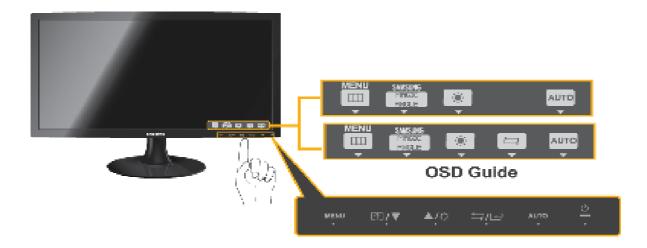
3-18 Installing the Device Driver

- 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.
 - To activate a button on the product, tap the area on the bottom of the panel. Tapping around the button label on the front will not activate the button.
 - 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 [37] after setting it, the configured function will be performed</customized>	
	• < អុំជំន ាក់Angle> - < <mark>អុំជំនាក់</mark> Bright> - <eco saving=""> - <image size=""/></eco>	
蚕	 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 tutton in	
	the customized key window.	
▲/ ▼	Use these buttons to navigate the menu or to adjust a value in the OSD.	
Ö	Use this button to control the brightness of the screen.	

3-19

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.	
	Press [AUTO] button to adjust the screen settings automatically	
AUTO	This function is only available in Analog mode.	
	If the resolution settings are changed in the Display Properties, the AUTO adjustment function is performed.	
	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.	
6	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.	

Using the product 3-19

3-20 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	HAVIC Bright	Angle
	Coarse	Fine	HDMI Black Level		
☞ COLOR	XXXXX Color	Red	Green	Blue	Color Tone
	Gamma				
SIZE & POSITION	H-Position	V-Position	Image Size	Menu H-Position	Menu V-Position
SETUP&RESET	Reset	Language	Eco Saving	Off Timer On/Off	Off Timer Setting
	PC/AV Mode	Key Repeat Time	Customized Key	Auto Source	Display Time
	Menu Transparency				
INFORMATION					

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 < 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 < Bright> is set to <dynamic contrast=""> or <cinema> mode. This menu is unavailable when < Color> is set to <full> mode or <intelligent> mode.</intelligent></full></cinema></dynamic>		
Sharpness	Controls the clarity of details of pictures displayed on the screen This menu is unavailable when < Bright> is set to <dynamic contrast=""> or <cinema> mode. This menu is unavailable when < Color> is set to <full> mode or <intelligent> mode.</intelligent></full></cinema></dynamic>		

3-20 Using the product

Menu	Description
	Provides preset picture settings optimized for various user environments such as editing a document, surfing the Internet, playing games,or movies and so on.
Bright	 <custom> If the preset picture modes are not sufficient, users can configure the </custom>

Using the product 3-20

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></off>
	<lean back="" mode1=""> [®] - Select when viewing from a slightly lower position.</lean>
	<lean back="" mode2=""> <a> - Select when viewing from the lower position.</lean>
	<standing mode=""></standing>
	<side mode=""></side>
	 <group view=""> - Select when two or more persons view among (1, (2), (2) position at the same time.</group>
HIGHT 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 < Bright> is set to < Dynamic Contrast> or < Cinema> mode.
	This menu is unavailable when < 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.
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></low></normal>
	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>

3-20

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 < Color> function off.</off>
、東 で新 州仏 がで C olor	• <demo> - You can compare the pictures processed by < Toolor> with the original pictures.</demo>
MEDICOLO	Full> - Provides a clearer picture including areas corresponding to skin color.
	ntelligent - Improves the chroma of pictures except for areas corresponding to skin color.
	This menu is unavailable when < புத்திற் Angle> is set.
	You can adjust the red color value of pictures according to your preference.
Red	This menu is unavailable when < 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 < 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 < 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.
Color Tone	
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< td=""></color<></av></pc>
	Tone> has four color temperature settings (<cool>, <normal>, <warm> and <custom>).</custom></warm></normal></cool>
	• This menu is unavailable when < Color> is set to <full> mode or <intelligent> mode.</intelligent></full>
	This menu is unavailable when < 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 < Angle> is set.

(This is unavailable when < House Bright> is set to < Dynamic Contrast> and < Cinema> mode.)

Using the product 3-20

■ 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.		
v-Position	 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> **Table III actings** **Tab</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 .</off></off> This menu is unavailable when < Bright> is set to <dynamic contrast=""> mode.</dynamic>	
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 3-20

Menu	Description	
	Set to PC when connected to a PC.	
	Set to AV when connected to an AV device.	
	This function does not support Analog mode.	
PC/AV 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> 	
	Controls the repeat delay of a button.	
Key Repeat Time	You can set to <acceleration>, <1 sec> or <2 sec>. If <no repeat=""> is selected, the button only responds once.</no></acceleration>	
0 1 1 11/	You can set the function of the Customized Key to one of the following.	
Customized Key	• <ម៉ាត់ក្រុ Angle> - <ម៉ាត់ក្រុ Bright> - <eco saving=""> - <image size=""/></eco>	
	- <auto> - The monitor automatically selects an input signal.</auto>	
Auto Source	<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.	
Wichia Transparency	• <off> - <on></on></off>	

INFORMATION



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

3-20 Using the product

3-21 Configuring Brightness and Contrast in the Initial Screen

Adjust the Brightness or Contrast setting using the [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 3-21

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.
 - If the pop-up screen for the software installation does not appear on the main screen, find and double-click the MagicTune setup file on the CD-ROM.
- 3. Select the installation language and click [Next].
- 4. Complete the remaining software installation steps according to the instructions displayed on the screen.
- The software may not work properly if you do not restart the computer after the installation.
 - •The MagicTune icon may not appear depending on the computer system and the product specifications.
 - •If the shortcut icon does not appear, press the F5 key.

Restrictions and Problems with the Installation (MagicTune™)

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

System Requirements

OS

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

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.
 - If the pop-up screen for the software installation does not appear on the main screen, find and double-click the MultiScreen setup file on the CD-ROM.
- 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

Did you cancel the screen adjustment?

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.		
	(Connected using the D-sub cable) Check the cable connecting the PC and the product.		
Is the <check cable="" signal=""> message displayed on the screen?</check>	(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 [
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. 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.		
when an [HDMI] or [HDMI-DVI] cable is connected to the monitor and PC.	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>)</contrast></brightness></contrast></brightness>			
The display brightness can differ according to the mode set for < Harry Angle>.			
If < ֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈ			
The on screen adjustment menu (OSD) does not appear.			

5-2 Troubleshooting

Check if the OSD Adjustment Lock function is set to Off.

	Check the cable connection to the computer.
Is the entire screen displayed in the same color as if viewing 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.
	ves to an edge or to the center.
The dioplay area educatily inc	
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 value 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 a	re out-of-focus.
Did you change the resolution and the frequency appropriate	Set the resolution and the frequency to the appropriate value in the graphics card
to the product?	refer to the (Standard Signal Mode Table)
The color is displayed in 16 bit (16 colors). The color	r has been changed after changing the graphics card.
	Windows XP : Set the color again by selecting Control Pane → 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.
Did you install the device driver for the product?	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 Settings → Control Panel → Appearance and Personalization → Dis play → 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.
When I connect the monitor, the 'Unknown monitor, Plug	a&Play (VESA DDC) monitor found' message is displayed.
Did you install the device driver for the product?	Install the device driver referring to the descriptions about th 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 th driver installation.
When I look at the exterior edges of the pr	oduct, small alien substances appear on it.

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!
	Set the frequency on your graphics card.
	Windows XP : Go to Control Panel \rightarrow Appearance and
	Themes → Display → Settings → Advanced → Monitor, and adjust Refresh rate under Monitor Settings.
	Windows ME/2000 : Go to Control Panel \rightarrow Display \rightarrow Settings \rightarrow Advanced \rightarrow Monitor, and adjust Refresh rate under Monitor Settings.
	Windows Vista : Go to Control Panel → Appearance and Per-
How can I change the frequency?	sonalization → Personalization → Display settings → Advanced settings → Monitor, and adjust Refresh rate under Monitor Settings.
	Windows 7 : Go to Control Panel → Appearance and Personalization → Display → Screen Resolution → Advanced settings → Monitor, and adjust Refresh rate under Monitor Settings.
	Windows 8: Go to Settings → Control Panel → Appearance and Personalization → Display → Screen Resolution → Advanced settings → Monitor, and adjust Refresh rate under Monitor Settings.
	Windows XP : Go to Control Panel → Appearance and Themes → Display → Settings, and adjust the resolution.
	Windows ME/2000 : Go to Control Panel \to Display \to Settings, and adjust the resolution.
How can I change the resolution?	Windows Vista : Go to Control Panel \to Appearance and Personalization \to Personalize \to Display settings, and adjust the resolution.
	Windows 7 : Go to Control Panel \to Appearance and Personalization \to Display \to Adjust resolution, and adjust the resolution.
	Windows 8 : Go to Settings \to Control Panel \to Appearance and Personalization \to Display \to Adjust resolution, and adjust the resolution.
	Windows XP: Set power-saving mode in Control Panel \rightarrow Appearance and Themes \rightarrow Display \rightarrow Screen Saver Settings or BIOS SETUP on the PC.
How do I set power-saving mode?	Windows ME/2000: Set power-saving mode in Control Panel \rightarrow Display \rightarrow Screen Saver Settings or BIOS SETUP on the PC.
	Windows Vista: Set power-saving mode in Control Panel \rightarrow Appearance and Personalization \rightarrow Personalize \rightarrow Screen Saver Settings or BIOS SETUP on the PC.
	Windows 7: Set power-saving mode in Control Panel \rightarrow Appearance and Personalization \rightarrow Personalize \rightarrow Screen Saver Settings or BIOS SETUP on the PC.
	Windows 8: Set power-saving mode in Settings \rightarrow Control Panel \rightarrow Appearance and Personalization \rightarrow Personalize \rightarrow Screen Saver Settings or BIOS SETUP on the PC.

5-3 Troubleshooting

6 More Information

6-1 Specifications

MO	DEL NAME	S19B300N	
	Size	18.5 inches (47 cm)	
Panel Display area		409.8 mm (H) X 230.4 mm (V)	
	Pixel Pitch	0.3 mm (H) x 0.3 mm (V)	
Synchronization	Horizontal	30 ~ 81 kHz	
Synchronization	Vertical	56 ~ 75 Hz	
Display Color		16.7M	
Resolution	Optimum resolution	1366x768 @ 60Hz	
Resolution	Maximum resolution	1366x768 @ 60Hz	
		RGB Analog	
Input Signal, Term	ninated	0.7 Vp-p ± 5%	
input oignai, Tom	macou	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixel C	lock	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 (M/d	IVD) / Maiabh	445 x 273 x 53 mm (17.5 x 10.7 x 2.1 inches) (Without Stand)	
Dimensions (WxH	(XD) / vveignt	445 x 348 x 177 mm (17.5 x 13.7 x 7.0 inches) (With Stand) / 2.3 kg (5.1 lbs)	
	Operating	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
Environmental	Operating	Humidity :10 % ~ 80 %, non-condensing	
considerations	Storage	Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
	Otorage	Humidity : 5 % ~ 95 %, non-condensing	
Tilt		0°(±2.0°) ~20.0°(±2.0°)	

- Design and specifications are subject to change without prior notice.
- 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 ordarker 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

6-2 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.

6-2 More Information

6-3 Specifications

MO	DEL NAME	S19B300B	
	Size	18.5 inches (47 cm)	
Panel	Display area	409.8 mm (H) X 230.4 mm (V)	
	Pixel Pitch	0.3 mm (H) x 0.3 mm (V)	
O ala	Horizontal	30 ~ 81 kHz	
Synchronization	Vertical	56 ~ 75 Hz	
Display Color		16.7M	
Decelution	Optimum resolution	1366x768 @ 60Hz	
Resolution	Maximum resolution	1366x768 @ 60Hz	
		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB	
Input Signal Torn	ainatad	0.7 Vp-p ± 5%	
Input Signal, Tern	imated	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixel C	lock	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	
Signal Cable		DVI-D to DVI-D connector, Detachable	
Dimonoiono (\My	IvD) / Woight	445 x 273 x 53 mm (17.5 x 10.7 x 2.1 inches) (Without Stand)	
Dimensions (WxH	ixD) / vveignt	445 x 348 x 177 mm (17.5 x 13.7 x 7.0 inches) (With Stand) / 2.3 kg (5.1 lbs)	
	Operating	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
Environmental	Operating	Humidity :10 % ~ 80 %, non-condensing	
considerations	Storage	Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
	Clorage	Humidity: 5 % ~ 95 %, non-condensing	
Tilt		0°(±2.0°) ~20.0°(±2.0°)	

- Design and specifications are subject to change without prior notice.
- 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

6-4 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.

6-4 More Information

6-5 Specifications

МО	DEL NAME	S19B300NW	
	Size	19 inches (48 cm)	
Panel	Display area	408.24 mm (H) X 255.15 mm (V)	
	Pixel Pitch	0.2835 mm (H) x 0.2835 mm (V)	
Synchronization	Horizontal	30 ~ 81 kHz	
Synchronization	Vertical	56 ~ 75 Hz	
Display Color		16.7M	
Resolution	Optimum resolution	1440x900 @ 60Hz	
Resolution	Maximum resolution	1440x900 @ 75Hz	
		RGB Analog	
Input Signal, Tern	ninated	0.7 Vp-p ± 5%	
input oignai, rom		separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixel C	lock	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 (WxF	JvD) / Maight	444 x 299 x 53 mm (17.5 x 11.8 x 2.1 inches) (Without Stand)	
Difficusions (VVXF	ixD) / weight	444 x 373 x 177 mm (17.5 x 14.7 x 7.0 inches) (With Stand) / 2.3 kg (5.1lbs)	
Operating		Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
Environmental	Operating	Humidity :10 % ~ 80 %, non-condensing	
considerations	Storage	Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
	Clorago	Humidity : 5 % ~ 95 %, non-condensing	
Tilt		0°(±2.0°) ~20.0°(±2.0°)	

- Design and specifications are subject to change without prior notice.
- 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 ordarker on the panel. This does not affect product performance.

(USA ONLY)

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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	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.

6-6 More Information

6-7 Specifications

M	ODEL NAME	S20B300N	
	Size	20 inches (50 cm)	
Panel Display area		442.8 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	
Decelution	Optimum resolution	1600x900@60Hz	
Resolution	Maximum resolution	1600x900@60Hz	
Input Signal, Terminated		RGB Analog	
		0.7 Vp-p ± 5%	
		separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixel	Clock	150MHz (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 (M)	LlvD) / Maight	478 x 291 x 53 mm (18.8 x 11.5 x 2.1 inches) (Without Stand)	
Dimensions (WxHxD) / Weight		478 x 365 x 177 mm (18.8 x 14.4 x 7.0 inches) (With Stand) / 2.1 kg (4.6 lbs)	
Operating		Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
Environmental	Operating	Humidity :10 % ~ 80 %, non-condensing	
considerations	Storage	Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
	Giorage	Humidity: 5 % ~ 95 %, non-condensing	
Tilt		0°(±2.0°) ~20.0°(±2.0°)	

- Design and specifications are subject to change without prior notice.
- 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 ordarker 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

6-8 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.

6-8 More Information

6-9 Specifications

MOD	DEL NAME	S20B300B	
	Size	20 inches (50 cm)	
Panel	Display area	442.8 mm (H) X 249.08 mm (V)	
	Pixel Pitch	0.27625 mm (H) x 0.27625 mm (V)	
0	Horizontal	30 ~ 81 kHz	
Synchronization	Vertical	56 ~ 75 Hz	
Display Color		16.7M	
Decelution	Optimum resolution	1600x900@60Hz	
Resolution	Maximum resolution	1600x900@60Hz	
		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB	
Input Signal, Term	inated	0.7 Vp-p ± 5%	
input Signal, Term	inateu	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixel Clock		150MHz (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	
Signal Cable		DVI-D to DVI-D connector, Detachable	
Dimonoiono (MyH)	(D) / Woight	478 x 291 x 53 mm (18.8 x 11.5 x 2.1 inches) (Without Stand)	
Dimensions (WxHx	(D) / Weight	478 x 365 x 177 mm (18.8 x 14.4 x 7.0 inches) (With Stand) / 2.1 kg (4.6 lbs)	
	Operating	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
Environmental	Operating	Humidity :10 % ~ 80 %, non-condensing	
considerations	Storage	Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
	Ciorage	Humidity: 5 % ~ 95 %, non-condensing	
Tilt		0°(±2.0°) ~20.0°(±2.0°)	

- Design and specifications are subject to change without prior notice.
- 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 ordarker on the panel. This does not affect product performance.

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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.

6-10 More Information

6-11 Specifications

MODEL NAME		S22B300N	
	Size	21.5 inches (54 cm)	
Panel	Display area	476.64 mm (H) X 268.11 mm (V)	
	Pixel Pitch	0.24825 mm (H) x 0.24825 mm (V)	
Synchronization	Horizontal	30 ~ 81 kHz	
Synchronization	Vertical	56 ~ 75 Hz	
Display Color		16.7M	
Resolution	Optimum resolution	1920x1080@60Hz	
Resolution	Maximum resolution	1920x1080@60Hz	
,		RGB Analog	
Input Signal, Term	ninated	0.7 Vp-p ± 5%	
input oignai, Tem	iiilated	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixel C	ock	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 (WxH	vD) / Woight	512 x 311 x 53 mm (20.2 x 12.2 x 2.1 inches) (Without Stand)	
Diffierisions (WXF	xD) / vveignt	512 x 385 x 197 mm (20.2 x 15.2 x 7.8 inches) (With Stand) / 3.0 kg (6.6 lbs)	
	Operating	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
Environmental considerations		Humidity :10 % ~ 80 %, non-condensing	
	Storage	Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
	Storage	Humidity: 5 % ~ 95 %, non-condensing	
Tilt		0°(±2.0°) ~20.0°(±2.0°)	

- Design and specifications are subject to change without prior notice.
- 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 ordarker 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

6-12 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	STATE NORMAL OPERATION		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.

6-12 More Information

6-13 Specifications

MODEL NAME		S22B300B	
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)	
Cynobronization	Horizontal	30 ~ 81 kHz	
Synchronization	Vertical	56 ~ 75 Hz	
Display Color		16.7M	
Decelution	Optimum resolution	1920x1080@60Hz	
Resolution	Maximum resolution	1920x1080@60Hz	
	,	RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB	
Input Signal, Term	ainatad	0.7 Vp-p ± 5%	
input Signal, Tem	iiiiateu	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixel Cl	ock	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	
Signal Cable		DVI-D to DVI-D connector, Detachable	
Dimensions (WxH	vD) / Woight	512 x 311 x 53 mm (20.2 x 12.2 x 2.1 inches) (Without Stand)	
Difficusions (VVXI)	xD) / Weight	512 x 385 x 197 mm (20.2 x 15.2 x 7.8 inches) (With Stand) / 3.0 kg (6.6 lbs)	
Environmental considerations	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)	
	Ciorago	Humidity: 5 % ~ 95 %, non-condensing	
Tilt		0°(±2.0°) ~20.0°(±2.0°)	

- Design and specifications are subject to change without prior notice.
- 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 ordarker 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

6-14 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.

6-14 More Information

6-15 Specifications

MODEL NAME		S22B300H	
	Size	21.5 inches (54 cm)	
Panel	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	
Danalutian	Optimum resolution	1920x1080@60Hz	
Resolution	Maximum resolution	1920x1080@60Hz	
		RGB Analog, HDMI(High Definition Multimedia Interface)	
Innut Cianal Tar	minatad	0.7 Vp-p ± 5%	
Input Signal, Ten	minated	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixel C	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.	
		15pin-to-15pin D-sub cable, Detachable	
Signal Cable		HDMI to DVI Cable, Detachable	
		HDMI Cable, Detachable	
Dimensione (My)	HvD\ / Maight	512 x 311 x 53 mm (20.2 x 12.2 x 2.1 inches) (Without Stand)	
Dimensions (Wxl	nxD) / vveigni	512 x 385 x 197 mm (20.2 x 15.2 x 7.8 inches) (With Stand) / 3.0 kg (6.6 lbs)	
	Operating	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
Environmental		Humidity :10 % ~ 80 %, non-condensing	
considerations	Storage	Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
	Giorage	Humidity : 5 % ~ 95 %, non-condensing	
Tilt		0°(±2.0°) ~20.0°(±2.0°)	

- Design and specifications are subject to change without prior notice.
- 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 ordarker on the panel. This does not affect product performance.

(USA ONLY)

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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.

6-16 More Information

6-17 Specifications

MODEL NAME		S23B300N		
	Size	23 inches (58 cm)		
Panel	Display area	509.76 mm (H) X 286.74 mm (V)		
	Pixel Pitch	0.2655 mm (H) x 0.2655 mm (V)		
Cynobronization	Horizontal	30 ~ 81 kHz		
Synchronization	Vertical	56 ~ 75 Hz		
Display Color		16.7M		
Resolution	Optimum resolution	1920x1080@60Hz		
Resolution	Maximum resolution	1920x1080@60Hz		
,		RGB Analog		
Input Signal, Terr	ninated	0.7 Vp-p ± 5%		
input Signal, Ten	illiated	separate H/V sync, Composite, SOG		
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)		
Maximum Pixel C	lock	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 (Myl	IvD) / Maight	547 x 330 x 53 mm (21.5 x 13.0 x 2.1 inches) (Without Stand)		
Dimensions (WxF	ixD) / weight	547 x 405 x 197 mm (21.5 x 16.0 x 7.8 inches) (With Stand) / 2.9 kg (6.4 lbs)		
	Operating	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C)		
Environmental	Operating	Humidity :10 % ~ 80 %, non-condensing		
considerations	Storage	Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C)		
Clorage		Humidity : 5 % ~ 95 %, non-condensing		
Tilt		0°(±2.0°) ~20.0°(±2.0°)		

- Design and specifications are subject to change without prior notice.
- 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 ordarker 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

6-18 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.

6-18 More Information

6-19 Specifications

MODEL NAME		S23B300B	
	Size	23 inches (58 cm)	
Panel	Display area	509.76 mm (H) X 286.74 mm (V)	
	Pixel Pitch	0.2655 mm (H) x 0.2655 mm (V)	
Complementing	Horizontal	30 ~ 81 kHz	
Synchronization	Vertical	56 ~ 75 Hz	
Display Color		16.7M	
Decelution	Optimum resolution	1920x1080@60Hz	
Resolution	Maximum resolution	1920x1080@60Hz	
		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB	
Input Signal, Term	inated	0.7 Vp-p ± 5%	
input Signal, Term	inateu	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixel Clo	ock	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	
Signal Cable		DVI-D to DVI-D connector, Detachable	
Dimensions (WxHx	vD) / Weight	547 x 330 x 53 mm (21.5 x 13.0 x 2.1 inches) (Without Stand)	
Difficitisions (WXI I/	(D) / Weight	547 x 405 x 197 mm (21.5 x 16.0 x 7.8 inches) (With Stand) / 2.9 kg (6.4 lbs)	
	Operating	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
Environmental considerations	Operating	Humidity :10 % ~ 80 %, non-condensing	
	Storage	Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
	Ciorage	Humidity: 5 % ~ 95 %, non-condensing	
Tilt		0°(±2.0°) ~20.0°(±2.0°)	

- Design and specifications are subject to change without prior notice.
- 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 ordarker 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

6-20 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.

6-20 More Information

6-21 Specifications

MODEL NAME		S23B300H	
	Size	23 inches (58 cm)	
Panel	Display area	509.76 mm (H) X 286.74 mm (V)	
	Pixel Pitch	0.2655 mm (H) x 0.2655 mm (V)	
0 1	Horizontal	30 ~ 81 kHz	
Synchronization	Vertical	56 ~ 75 Hz	
Display Color		16.7M	
Decelution	Optimum resolution	1920x1080@60Hz	
Resolution	Maximum resolution	1920x1080@60Hz	
		RGB Analog, HDMI(High Definition Multimedia Interface)	
Innut Cianal Tarr	ain ata d	0.7 Vp-p ± 5%	
Input Signal, Tern	ninated	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixel C	lock	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.	
		15pin-to-15pin D-sub cable, Detachable	
Signal Cable		HDMI to DVI Cable, Detachable	
		HDMI Cable, Detachable	
Dimonoiono (Myk	JvD) / Waight	547 x 330 x 53 mm (21.5 x 13.0 x 2.1 inches) (Without Stand)	
Dimensions (WxF	ixD) / vveignt	547 x 405 x 197 mm (21.5 x 16.0 x 7.8 inches) (With Stand) / 2.9 kg (6.4 lbs)	
Environmental considerations	Operating	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
	Operating	Humidity :10 % ~ 80 %, non-condensing	
	Storage	Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
	Ciorage	Humidity : 5 % ~ 95 %, non-condensing	
Tilt		0°(±2.0°) ~20.0°(±2.0°)	

- Design and specifications are subject to change without prior notice.
- 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 ordarker 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

6-22 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.

6-22 More Information

6-23 Specifications

MODEL NAME		S24B300BL	
	Size	23.6 inches (59 cm)	
Panel	Display area	521.28 mm (H) X 293.22 mm (V)	
	Pixel Pitch	0.2715 mm (H) x 0.2715 mm (V)	
Cynobronization	Horizontal	30 ~ 81 kHz	
Synchronization	Vertical	56 ~ 75 Hz	
Display Color		16.7M	
Decelution	Optimum resolution	1920x1080@60Hz	
Resolution	Maximum resolution	1920x1080@60Hz	
		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB	
Input Signal, Terr	minated	0.7 Vp-p ± 5%	
iliput Signal, Teli	minated	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixel C	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	
Signal Cable		DVI-D to DVI-D connector, Detachable	
Dimensions (Wxl	JvD) / Weight	569 x 342 x 53 mm (22.4 x 13.5 x 2.1 inches) (Without Stand)	
Diffictionoris (VVXI	IXD) / Weight	569 x 416 x 197 mm (22.4 x 16.4 x 7.8 inches) (With Stand) / 3.8 kg (8.4 lbs)	
Environmental considerations	Operating	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
	operating	Humidity :10 % ~ 80 %, non-condensing	
	Storage	Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
	Clorage	Humidity: 5 % ~ 95 %, non-condensing	
Tilt		0°(±2.0°) ~20.0°(±2.0°)	

- Design and specifications are subject to change without prior notice.
- 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 ordarker 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

6-24 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.

6-24 More Information

6-25 Specifications

MODEL NAME		S24B300HL	
	Size	23.6 inches (59 cm)	
Panel	Display area	521.28 mm (H) X 293.22 mm (V)	
	Pixel Pitch	0.2715 mm (H) x 0.2715 mm (V)	
	Horizontal	30 ~ 81 kHz	
Synchronization	Vertical	56 ~ 75 Hz	
Display Color		16.7M	
Decelution	Optimum resolution	1920x1080@60Hz	
Resolution	Maximum resolution	1920x1080@60Hz	
		RGB Analog, HDMI	
Innut Cianal Tormi	noted	0.7 Vp-p ± 5%	
Input Signal, Termi	nateu	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixel Clo	ock	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.	
		15pin-to-15pin D-sub cable, Detachable	
Signal Cable		HDMI to DVI Cable ,Detachable	
		HDMI Cable, Detachable	
Dimensions (MyLly	D) / Maight	569 x 342 x 53 mm (22.4 x 13.5 x 2.1 inches) (Without Stand)	
Dimensions (WxHx	D) / Weight	569 x 416 x 197 mm (22.4 x 16.4 x 7.8 inches) (With Stand) / 3.8 kg (8.4 lbs)	
Environmental considerations	Operating	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
	Operating	Humidity :10 % ~ 80 %, non-condensing	
	Storage	Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
	Storage	Humidity: 5 % ~ 95 %, non-condensing	
Tilt		0°(±2.0°) ~20.0°(±2.0°)	

- Design and specifications are subject to change without prior notice.
- 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 ordarker 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

6-26 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.

6-26 More Information

6-27 Specifications

MODEL NAME		S24B300N	
	Size	24 inches (61 cm)	
Panel	Display area	531.36 mm (H) X 298.89 mm (V)	
	Pixel Pitch	0.27675 mm (H) x 0.27675 mm (V)	
Cynobronization	Horizontal	30 ~ 81 kHz	
Synchronization	Vertical	56 ~ 75 Hz	
Display Color		16.7M	
Resolution	Optimum resolution	1920x1080@60Hz	
Resolution	Maximum resolution	1920x1080@60Hz	
		RGB Analog	
Input Signal, Tern	ainated	0.7 Vp-p ± 5%	
input Signal, Tem	iiilateu	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixel C	lock	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 (Myd	JyD) / Maight	569 x 342 x 53 mm (22.4 x 13.5 x 2.1 inches) (Without Stand)	
Dimensions (WxF	ixD) / vveignt	569 x 416 x 197 mm (22.4 x 16.4 x 7.8 inches) (With Stand) / 3.4 kg (7.5 lbs)	
	Operating	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
Environmental considerations	Operating	Humidity :10 % ~ 80 %, non-condensing	
	Storage	Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
Otorage		Humidity : 5 % ~ 95 %, non-condensing	
Tilt		0°(±2.0°) ~20.0°(±2.0°)	

- Design and specifications are subject to change without prior notice.
- 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 ordarker 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

6-28 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	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.

6-28 More Information

6-29 Specifications

MODEL NAME		S24B300B	
	Size	24 inches (61 cm)	
Panel	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	
Decelution	Optimum resolution	1920x1080@60Hz	
Resolution	Maximum resolution	1920x1080@60Hz	
		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB	
Input Signal, Teri	minatad	0.7 Vp-p ± 5%	
input Signal, Ten	illilated	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixel C	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	
Signal Cable		DVI-D to DVI-D connector, Detachable	
Dimonoiono (Myd	HyD) / Woight	569 x 342 x 53 mm (22.4 x 13.5 x 2.1 inches) (Without Stand)	
Dimensions (Wxl	hxD) / weight	569 x 416 x 197 mm (22.4 x 16.4 x 7.8 inches) (With Stand) / 3.4 kg (7.5 lbs)	
Environmental considerations	Operating	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
	Operating	Humidity :10 % ~ 80 %, non-condensing	
	Storage	Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
	Storage	Humidity: 5 % ~ 95 %, non-condensing	
Tilt		0°(±2.0°) ~20.0°(±2.0°)	

- Design and specifications are subject to change without prior notice.
- 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 ordarker on the panel. This does not affect product performance.

(USA ONLY)

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6-30 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.

6-30 More Information

6-31 Specifications

MODEL NAME		S24B300H	
	Size	24 inches (61 cm)	
Panel	Display area	531.36 mm (H) X 298.89 mm (V)	
	Pixel Pitch	0.27675 mm (H) x 0.27675 mm (V)	
O selective in the	Horizontal	30 ~ 81 kHz	
Synchronization	Vertical	56 ~ 75 Hz	
Display Color		16.7M	
Decelution	Optimum resolution	1920x1080@60Hz	
Resolution	Maximum resolution	1920x1080@60Hz	
		RGB Analog, HDMI	
Input Signal Tormi	inatad	0.7 Vp-p ± 5%	
Input Signal, Termi	inateu	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixel Clo	ock	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.	
		15pin-to-15pin D-sub cable, Detachable	
Signal Cable		HDMI to DVI-D connector, Detachable	
		HDMI Cable, Detachable	
Dimonsions (M/vH)	vD) / Woight	569 x 342 x 53 mm (22.4 x 13.5 x 2.1 inches) (Without Stand)	
Dimensions (WxHxD) / Weight		569 x 416 x 197 mm (22.4 x 16.4 x 7.8 inches) (With Stand) / 3.4 kg (7.5 lbs)	
Environmental	Operating	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
	Operating	Humidity :10 % ~ 80 %, non-condensing	
considerations	Storage	Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
	Ctorage	Humidity: 5 % ~ 95 %, non-condensing	
Tilt		0°(±2.0°) ~20.0°(±2.0°)	

- Design and specifications are subject to change without prior notice.
- 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 ordarker on the panel. This does not affect product performance.

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6-32 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.

6-32 More Information

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

NORTH AMERICA		
U.S.A	1-800-SAMSUNG (726-7864)	http://www.samsung.com
CANADA	1-800-SAMSUNG (726-7864)	http://www.samsung.com/ca (English) http://www.samsung.com/ca_fr (French)
MEXICO	01-800-SAMSUNG (726-7864)	http://www.samsung.com
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ARGENTINE	0800-333-3733	http://www.samsung.com
BOLIVIA	800-10-7260	http://www.samsung.com
BRAZIL	0800-124-421 4004-0000	http://www.samsung.com
CHILE	800-SAMSUNG (726-7864) From mobile 02-482 82 00	http://www.samsung.com
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DOMINICA	1-800-751-2676	http://www.samsung.com/latin (Spanish) http://www.samsung.com/latin_en (English)
ECUADOR	1-800-10-7267	http://www.samsung.com/latin (Spanish) http://www.samsung.com/latin_en (English)
EL SALVADOR	800-6225	http://www.samsung.com/latin (Spanish) http://www.samsung.com/latin_en (English)
GUATEMALA	1-800-299-0013	http://www.samsung.com/latin (Spanish) http://www.samsung.com/latin_en (English)
HONDURAS	800-27919267	http://www.samsung.com/latin (Spanish) http://www.samsung.com/latin_en (English)
JAMAICA	1-800-234-7267	http://www.samsung.com

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		(English)
PANAMA	800-7267	http://www.samsung.com/latin (Spanish)
		http://www.samsung.com/latin_en (English)
PERU	0-800-777-08	http://www.samsung.com
PUERTO RICO	1-800-682-3180	http://www.samsung.com
TRINIDAD & TOBAGO	1-800-SAMSUNG (726-7864)	http://www.samsung.com
VENEZUELA	0-800-100-5303	http://www.samsung.com
	EUROPE	
AUSTRIA	0810 - SAMSUNG	http://www.samsung.com
	(7267864, € 0.07/min)	
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	(+30) 210 6897691 from mobile and land line	
CZECH	800-SAMSUNG (800-726786)	http://www.samsung.com
	Samsung Electronics Czech and Slovak, 180 00, Praha 8	s.r.o.,Oasis Florenc, Sokolovská 394/17,
DENMARK	70 70 19 70	http://www.samsung.com
EIRE	0818 717100	http://www.samsung.com
ESTONIA	800-7267	http://www.samsung.com
FINLAND	09 85635050	http://www.samsung.com
FRANCE	01 48 63 00 00	http://www.samsung.com
GERMANY	0180 5 SAMSUNG bzw.	http://www.samsung.com
	0180 5 7267864* (*0,14 €/Min. aus dem dt. Festnetz, aus dem Mobilfunk max. 0,42 €/Min.)	
GREECE	80111-SAMSUNG (80111 726 7864) only from land line	http://www.samsung.com
	(+30) 210 6897691 from mobile and land line	
HUNGARY	06-80-SAMSUNG(726-7864)	http://www.samsung.com
ITALIA	800-SAMSUNG (726-7864)	http://www.samsung.com
LATVIA	8000-7267	http://www.samsung.com

6-33 More Information

	EUROPE	
LITHUANIA	8-800-77777	http://www.samsung.com
LUXEMBURG	261 03 710	http://www.samsung.com
MONTENEGRO	020 405 888	http://www.samsung.com
NETHERLANDS	0900-SAMSUNG	http://www.samsung.com
	(0900-7267864) (€ 0,10/Min)	
NORWAY	815 56480	http://www.samsung.com
POLAND	0 801-1SAMSUNG (172-678)	http://www.samsung.com
	+48 22 607-93-33	
PORTUGAL	808 20-SAMSUNG (808 20 7267)	http://www.samsung.com
ROMANIA	08008 SAMSUNG (08008 726 7864) TOLL FREE No.	http://www.samsung.com
SERBIA	0700 Samsung (0700 726 7864)	http://www.samsung.com
SLOVAKIA	0800 - SAMSUNG(0800-726 786)	http://www.samsung.com
SPAIN	902 - 1 - SAMSUNG (902 172 678)	http://www.samsung.com
SWEDEN	0771 726 7864 (SAMSUNG)	http://www.samsung.com
SWITZERLAND	0848 - SAMSUNG	http://www.samsung.com/ch (German)
	(7267864, CHF 0.08/min)	http://www.samsung.com/ch_fr (French)
U.K	0330 SAMSUNG (7267864)	http://www.samsung.com
	CIS	
ARMENIA	0-800-05-555	http://www.samsung.com
AZERBAIJAN	088-55-55-555	http://www.samsung.com
BELARUS	810-800-500-55-500	http://www.samsung.com
GEORGIA	0-800-555-555	http://www.samsung.com
KAZAKHSTAN	8-10-800-500-55-500 (GSM: 7799)	http://www.samsung.com
KYRGYZSTAN	00-800-500-55-500	http://www.samsung.com
MOLDOVA	0-800-614-40	http://www.samsung.com
MONGOLIA	+7-800-555-55	http://www.samsung.com
RUSSIA	8-800-555-55-55	http://www.samsung.com
TADJIKISTAN	8-10-800-500-55-500	http://www.samsung.com
UKRAINE	0-800-502-000	http://www.samsung.com/ua (Ukrainian)
		http://www.samsung.com/ua_ru (Russian)
UZBEKISTAN	8-10-800-500-55-500	http://www.samsung.com
	ASIA PACIFIC	
AUSTRALIA	1300 362 603	http://www.samsung.com
CHINA	400-810-5858	http://www.samsung.com
HONG KONG	(852) 3698 4698	http://www.samsung.com/hk (Chinese) http://www.samsung.com/hk_en (English)

	ASIA PACIFIC	
INDIA	1800 1100 11	http://www.samsung.com
	3030 8282 1800 3000 8282	
	1800 3000 8282	
INDONESIA		http://www.comoung.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	http://www.samsung.com
	0266-026-066	
THAILAND	1800-29-3232	http://www.samsung.com
	02-689-3232	
VIETNAM	1 800 588 889	http://www.samsung.com
	MENA	
BAHRAIN	8000-4726	http://www.samsung.com/ae (English)
		http://www.samsung.com/ae_ar (Arabic)
EGYPT	08000-726786	http://www.samsung.com
RAN	021-8255	http://www.samsung.com
JORDAN	800-22273	http://www.samsung.com
	065777444	
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 (Arabic)
SAUDI ARABIA	9200-21230	http://www.samsung.com/ae (English
		http://www.samsung.com/ae_ar (Arabic)
TURKEY	444 77 11	http://www.samsung.com
U.A.E	800-SAMSUNG (726-7864)	http://www.samsung.com

6-3

AFRICA		
ANGOLA	91-726-7864	http://www.samsung.com
BOTSWANA	0800-726-000	http://www.samsung.com
CAMEROON	7095- 0077	http://www.samsung.com
COTE D' IVOIRE	8000 0077	http://www.samsung.com
GHANA	0800-10077 0302-200077	http://www.samsung.com
KENYA	0800 545 545	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

6-33 More Information

6-34 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.

6-35 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.

6-35 More Information