SyncMaster B1740R/ B1740RX/ B1940M/B1940EW/ B1940MX/ B1940ER/B1940R/
B1940RX/ B1940MR/ B1940MRX/ B1940W/ B1940WX/ B2240/B2240EW/
B2240X/ B2240W/ B2240WX/B2240M/B2240MH/B2240MX/ B2240MW/
B2240MWX/B2240EMW/ BX2240/ BX2240X/ B2340/ B2440L/B2440MH/
B2440LX/B2440/ B2440X/ B2440M/BX2340/BX2340X/ BX2440/
BX2440X/ E1720NR/ E1720NRX/ E1920/ E1920X/ E1920R/ E1920N/
E1920NX/ E1920NR/ E1920NRX/ E1920NW/ E1920NWX/ E1920W/
E1920WX/ E2020/ E2020X/ E2020N/ E2020NX/ E2220X/ E2220X/ E2320X/ E2320X/ E2420/E2420L/E2420LX/E2420NL/E2420NLX/EX1920/
EX1920X/EX2020/EX2020X

MonitorUser Manual

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



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1 Major Safety Precautions

1-1 Before You Start

Icons used in this manual

lcon	Name	Meaning
!	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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External Surface and Screen Maintenance

Clean the product with a soft dry cloth.

- Do not clean the product with an inflammable substance such as benzene or thinner or with a wet cloth. This may result in a problem with the product.
- Do not scratch the screen with your fingernails or a sharp object.

This may result in scratches or damage to the product.

 Do not clean the product directly by spraying water onto the product.

If water enters the product, it may result in fire, electric shock or a problem with the product.

 A white stain may be generated on the surface of the highglossy model due to the inherent characteristics of the material, if a supersonic humidifier is used.



The appearance and the color may differ depending on the model.



Securing the Installation Space

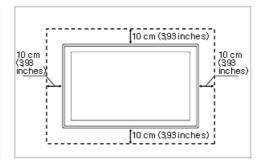
• Keep the required distances between the product and other objects (e.g. walls) to ensure proper ventilation. Failing to do so may result in fire or a problem with the product due to an increase in the internal temperature. Install the product so the required distances shown in the figure are kept.



The appearance may differ depending on the product.

When installing the product with a stand

10 cm (3,93 inches) 10 cm (3,93 inches) (3,93 inches) When installing the product with a wall-mount



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.
- Due to technological constraints of the panel manufacturer, the images generated by this product may appear either brighter or darker than normal for approximately 1 ppm (parts per million) pixels.

The number of sub-pixels by panel type: The number of Sub-Pixels = Max. Horizontal Resolution x Max. Vertical Resolution x 3

Example) If the maximum resolution is 1600×900 , the number of sub-pixels is $1600 \times 900 \times 3 = 4,320,000$.

Icons used for safety precautions

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

Meaning of Signs



Do not perform.



Must be followed.



Do not disassemble.



The power plug must be unplugged from the wall outlet.



Do not touch.



Must be grounded to prevent electric shock.

Power Related



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



Warning



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

Otherwise, it may result in electric shock



Avoid connecting multiple electric appliances to a single wall outlet.

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



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

Otherwise, it may result in electric shock.



Plug the power plug in firmly.

• Otherwise, it may result in fire.



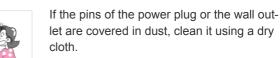
Make sure to connect the power cord to a grounded wall outlet (for insulation class 1 equipment only).

Otherwise, it may result in electric shock



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

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



Otherwise, it may result in fire.



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

Otherwise, it may result in electric shock



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.



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

 Otherwise, it may result in electric shock or fire



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.

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 ventila-

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



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

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



tion.

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



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

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 dust, moisture (sauna), oil, smoke or water (rain drops) and installing it within a vehicle.

This may result in electric shock or fire.



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

 This may shorten the product life cycle or cause fire.



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.



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.

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.



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.



When putting the product down, handle it gently.

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





Since using a surfactant, which contains a large amount of alcohol, solvent or other strong chemicals, may result in the discoloration or cracking of the product exterior or the panel surface coming off, be sure to use the recommended cleansing agent only.

You can purchase the recommended cleansing agent from a service center.



Before cleaning the product, unplug the power cord.

 Otherwise, it may result in electric shock or fire.



When cleaning the product, do not spray water directly over the product parts.

- Make sure that water does not enter the product.
- Otherwise, it may result in fire, electric shock or a problem with the product.



Caution



Avoid spraying cleansing agent directly onto the product.

 This may result in discoloration or cracking of the exterior of the product or the panel coming off.



When cleaning the product, disconnect the power cord and clean the product with a soft dry cloth.

 Avoid using chemicals such as wax, benzene, alcohol, thinner, mosquitorepellent, fragrance, lubrication or cleansing agent when cleaning the product.

This may result in the exterior being deformed or the print being removed.



Use a soft, damp cloth with a "monitorexclusive cleansing agent" and wipe the product with it.

 If no monitor-exclusive cleansing agent is available, dilute a cleansing agent with water at a ratio of 1:10 before cleaning the product.



Since the exterior of the product is easily scratched, be sure to use a proper cleansing cloth. Use the cleansing cloth with a small amount of water. However, if the cloth is contaminated by alien substances, it may result in scratches to the exterior; therefore shake off any alien substances from the cloth before using it.

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.



When cleaning the product, do not spray water directly over the product parts.

- Make sure that water does not enter the product.
- Otherwise, it may result in fire, electric shock or a problem with the product.



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

 Otherwise, it may result in electric shock or fire.



Avoid letting children to hang or climb onto the product.

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



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

 Otherwise, it may result in fire or electric shock.



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

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



When thunder or lighting occurs, unplug the power cord and under no circumstance touch the antenna cable as this is dangerous.

Otherwise, it may result in electric shock



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

 Otherwise, it may result in electric shock or fire.



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

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



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

- A spark may result in an explosion or fire
- During a thunder or lighting storm, do not touch the power cord or antenna cable



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 screensaver to the moving picture mode.



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

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



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 in damage to the product or injury.



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.

et screen for long periods of time.

This will alleviate any eye strain.



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



Keep small accessories away from the children



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

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



Avoid placing a heavy object over the product.

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

Maintaining the Correct Posture when Using this Product



Maintain the correct posture when using this product.

- Straighten your back.
- Keep a distance of 45~50 cm from your eyes to the screen. Look down at the screen and face the screen forwards.
- · Maintain the correct posture when using this product.
- 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.

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.

Type 1



Monitor & HAS stand

Contents					
Installation Manual	Product Warranty (Not available in all locations)	User Manual	D-Sub Cable		
Power Cord	Stand				
	OPTIONA	L PARTS			
HDMI Cable	DVI Cable Cleaning Cloth		Stereo Cable		





Monitor & Simple stand

8

MagicRotation program can not be provided as Simple Stand does not support Pivot function.

Contents					
Installation Manual	Product Warranty (Not available in all locations)	User Manual	D-Sub Cable		
Power Cord	Stand	Stand Connector			
	OPTIONA	L PARTS			
HDMI Cable	DVI Cable Cleaning Cloth		Stereo Cable		



The cleaning cloth is supplied with black high-glossy models only.

Type 3



Monitor and HAS-USB stand

Contents					
Installation Manual	Product Warranty (Not available in all locations)	User Manual	D-Sub Cable		
Power Cord	Power Cord Stand				
	OPTIONA	L PARTS			
HDMI Cable	DVI Cable	Cleaning Cloth	Stereo Cable		
USB Cable					



The cleaning cloth is supplied with black high-glossy models only.



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

HAS stand



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



Do not remove the stopper pin before installing the base.



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



Insert the stand base into the stand connection part in the direction shown in the figure.



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



After the installation of the base, stand the monitor up as shown in the figure. Now you can remove the stopper pin to adjust the stand.

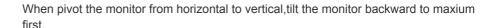


- Caution

Avoid lifting the product holding only the stand.



Disassembly is in the reverse order of the assembly.





A. Stand Stopper

Simple stand



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



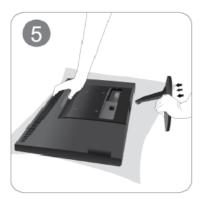
Check if the Stand Connector is firmly connected.



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



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



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

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



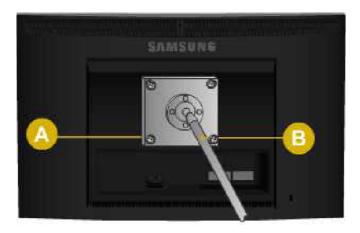
- Caution

Avoid lifting the product holding only the stand.

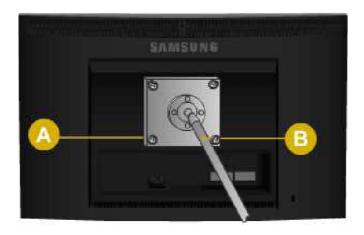


Disassembly is in the reverse order of the assembly.

This product provides a stand mount of 75 mm x 75 mm (3.0 x 3.0 inches) that complies with the VESA specifications.



HAS stand



Simple stand

- A Stand Mount
- Stand (Optional)
- 1. Turn the product off and unplug the power cord from the wall outlet.
- 2. Place a soft cloth or cushion on a flat surface to protect the panel and place the product down on the cloth so that the front of the product faces downwards.
- 3. Separate the stand.
- **4.** Align the groove of the part of the product that is to be connected to the stand with the groove in the stand (desk-top stand, wall mount stand or another stand) and firmly fix the stand by fastening the screw.
- · If you use a screw that is longer than the standard specifications, the inside of the product may be damaged.
- For wall mounts that are not compatible with the standard VESA specifications, the length of the screw may differ depending on the corresponding specifications.
- Do not use screws that are incompatible with the standard VESA specifications and do not assemble them using excessive force.
- This may result in damage to the product or injury due to the product falling.
- The company shall not be held liable for any damage or injury.
- The company shall not be held liable for any damage to the product or injury caused by using a stand that is not compatible with the specified specifications or due to an installation not performed by an authorized installation

engineer.

- When installing the product using a wall mount, purchase a wall mount that provides at least 10 cm of space from the wall.
- The company shall not be held liable for any problems caused by using a stand that is not compatible with the specified specifications.

• Use the wall mount according to the international specifications.

2-4 Connecting with a PC

The connecting part may differ depending on the product model.

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



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



- The DVI IN terminal is supplied for the digital (DVI)-dedicated models only.
- 2. Connect one end of the power cord to the [POWER] port of the product and connect the other end of the power cord to the 220V or 110V wall outlet.

(The input voltage is switched automatically.)



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

When both the DVI (<Digital>) and D-Sub (<Analog>) cables are connected, you can select the input signal <Analog/

Digital> by pressing the Digital> by pressing the Digital> by pressing the Digital> lbutton.

POWER ON [|] / OFF Switches the Power On/Off.



- Some of the models with HAS stand for special region have this button. And some of the models with speaker have this button.
- 3. Connect the [AUDIO IN] port on the rear side of the monitor to the sound card of the PC.



Applicable to the models that have speakers only.

2-5 Connecting an HDMI cable

1. 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.

2-6 Kensington Lock

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. You have to purchase an additional locking device.



The location of the Kensington Lock may be different depending on its model.



Locking the product

- 1. Insert the locking part of the locking device into the hole of the Kensington lock of the product(**B**) and turn it in the locking direction(**A**).
- 2. Connect the Kensington lock cable.
- 3. Tie the Kensington lock cable to a desk or heavy object.



You can purchase the locking device from an electronics store, an online shop, or our service center.

2-7 Connecting Headphones



Connect your headphones to the Headphone connection terminal.



Applicable to the models that have speakers only.



You can hear sound by connecting the soundcard of your PC to the monitor.



Applicable to the models that have speakers only.

2-9 Connecting USB



You can use a USB device such as a mouse, keyboard, Memory Stick, or external hard disk drive by connecting them to the PC.

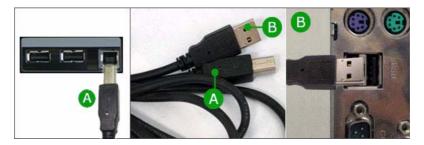
The "USB port of the monitor supports High-Speed Certified USB 2.0.

	High speed	Full speed	Low speed
Data Rate	480 Mbps	12 Mbps	1.5 Mbps
Power Consumption	2.5 W	2.5 W	2.5 W
	(Max., each port)	(Max., each port)	(Max., each port)





- 1. Connect the UP port of the monitor and the USB port of the computer with the USB cable.
 - To use
 Own port, you have to connect the UP (Upstream Cable) to the PC.
 - Make sure to use the USB cable supplied with this monitor to connect the monitor's UP port and your computer's USB port.



- 2. Connect the GOWN port of the USB monitor and a USB device with the USB cable.
- 3. The use procedures are as the same as those for using an external device connecting to the PC.

- · You can connect and use a keyboard and mouse.
- You can play a file from a media device.
 (Examples of media devices: MP3, digital camera, etc.)
- You can run, move, copy or delete the files on the storage device.

 (Examples of storage devices: external memory, memory card, memory reader, HDD-type MP3 player, etc.)
- You can use other USB devices that can be connected to a computer.



- When connecting a device to the DOWN port of the monitor, connect the device using a cable appropriate to the
 device.
- (For the purchase of the cable and external devices, ask the service center of the corresponding product.)
- The company is not liable for problems or damages to an external device caused by using an unauthorized cable for the connection.
- Some products do not follow the USB standard, and it may cause a malfunction of the device.
- If the device malfunctions even if it is connected to the computer, contact the service center of the device/computer.

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 and the optimal resolution.



▲/▼ : 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.

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.

B1740R/B1740RX

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
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 800	49.702	59.810	83.500	-/+
VESA, 1280 x 800	62.795	74.934	106.500	-/+
VESA, 1280 x 960	60.000	60.000	108.000	+/+
VESA, 1280 x 1024	63.981	60.020	108.000	+/+
VESA, 1280 x 1024	79.976	75.025	135.000	+/+

Horizontal Frequency

The time 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.

B1940M/B1940MX

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640x 350	31.469	70.086	25.175	+/-
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, 1366 x 768	47.712	59.790	85.500	+/+

Horizontal Frequency

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

Vertical Frequency

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

3-4 Standard Signal Mode Table



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

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

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

B1940ER

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640x 350	31.469	70.086	25.175	+/-
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 800	49.702	59.810	83.500	-/+
VESA, 1280 x 800	62.795	74.934	106.500	-/+
VESA, 1280 x 960	60.000	60.000	108.000	+/+
VESA, 1280 x 1024	63.981	60.020	108.000	+/+
VESA, 1280 x 1024	79.976	75.025	135.000	+/+

Horizontal Frequency

The time 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.

B1940R/B1940RX

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640x 350	31.469	70.086	25.175	+/-
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 800	49.702	59.810	83.500	-/+
VESA, 1280 x 800	62.795	74.934	106.500	-/+
VESA, 1280 x 960	60.000	60.000	108.000	+/+
VESA, 1280 x 1024	63.981	60.020	108.000	+/+
VESA, 1280 x 1024	79.976	75.025	135.000	+/+

Horizontal Frequency

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

Vertical Frequency

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

3-6 Standard Signal Mode Table



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

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

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

B1940MR/B1940MRX

-				
Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640x 350	31.469	70.086	25.175	+/-
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 800	49.702	59.810	83.500	-/+
VESA, 1280 x 800	62.795	74.934	106.500	-/+
VESA, 1280 x 960	60.000	60.000	108.000	+/+
VESA, 1280 x 1024	63.981	60.020	108.000	+/+
VESA, 1280 x 1024	79.976	75.025	135.000	+/+

Horizontal Frequency

The time 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.

B1940W/B1940WX

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
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 800	49.702	59.810	83.500	-/+
VESA, 1280 x 800	62.795	74.934	106.500	-/+
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.

3-8 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.

B2240/B2240X

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
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 800	49.702	59.810	83.500	-/+
VESA,1280 X 800	62.795	74.934	106.500	-/+
VESA,1280 X 960	60.000	60.000	108.000	+/+
VESA, 1280 X 1024	63.981	60.020	108.000	+/+
VESA, 1280 X 1024	79.976	75.025	135.000	+/+
VESA,1440 X 900	55.935	59.887	106.500	-/+
VESA,1440 X 900	70.635	74.984	136.750	-/+
VESA,1600 X 1200	75.000	60.000	162.000	++
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.

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.

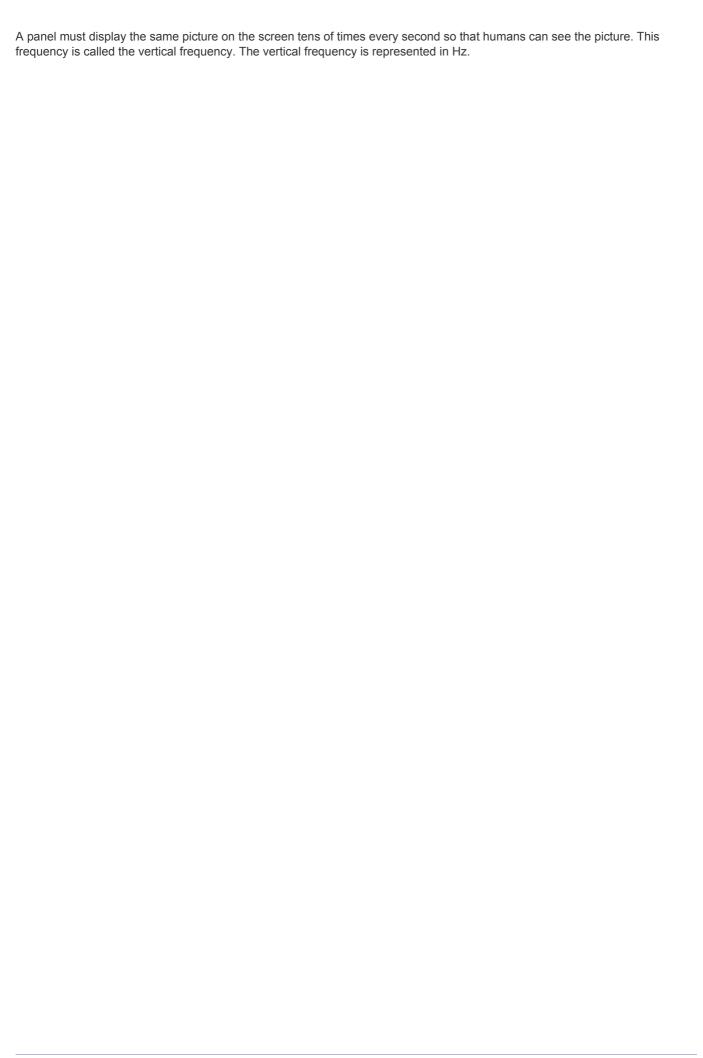
B2240W /B2240WX

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
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 800	49.702	59.810	83.500	-/+
VESA,1280 X 800	62.795	74.934	106.500	-/+
VESA,1280 X 960	60.000	60.000	108.000	+/+
VESA, 1280 X 1024	63.981	60.020	108.000	+/+
VESA, 1280 X 1024	79.976	75.025	135.000	+/+
VESA,1440 X 900	55.935	59.887	106.500	-/+
VESA,1440 X 900	70.635	74.984	136.750	-/+
VESA,1680 X 1050	64.674	59.883	119.000	+/-
VESA,1680 X 1050	65.290	59.954	146.250	-/+

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.

B2240M/B2240MX

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
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 800	49.702	59.810	83.500	-/+
VESA,1280 X 800	62.795	74.934	106.500	-/+
VESA,1280 X 960	60.000	60.000	108.000	+/+
VESA, 1280 X 1024	63.981	60.020	108.000	+/+
VESA, 1280 X 1024	79.976	75.025	135.000	+/+
VESA,1440 X 900	55.935	59.887	106.500	-/+
VESA,1440 X 900	70.635	74.984	136.750	-/+
VESA,1600 X 1200	75.000	60.000	162.000	++
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.

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.

B2240MW/B2240MWX

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
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 800	49.702	59.810	83.500	-/+
VESA,1280 X 800	62.795	74.934	106.500	-/+
VESA,1280 X 960	60.000	60.000	108.000	+/+
VESA, 1280 X 1024	63.981	60.020	108.000	+/+
VESA, 1280 X 1024	79.976	75.025	135.000	+/+
VESA,1440 X 900	55.935	59.887	106.500	-/+
VESA,1440 X 900	70.635	74.984	136.750	-/+
VESA,1680 X 1050	64.674	59.883	119.000	+/-
VESA,1680 X 1050	65.290	59.954	146.250	-/+

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.

B2240EMW

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
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 800	49.702	59.810	83.500	-/+
VESA,1280 X 800	62.795	74.934	106.500	-/+
VESA,1280 X 960	60.000	60.000	108.000	+/+
VESA, 1280 X 1024	63.981	60.020	108.000	+/+
VESA, 1280 X 1024	79.976	75.025	135.000	+/+
VESA,1440 X 900	55.935	59.887	106.500	-/+
VESA,1440 X 900	70.635	74.984	136.750	-/+
VESA,1680 X 1050	64.674	59.883	119.000	+/-
VESA,1680 X 1050	65.290	59.954	146.250	-/+

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



3-13 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.

B2340

Display Mode	Horizontal	Vertical Frequency	Pixel Clock (MHz)	Sync Polarity (H/V)
	Frequency (kHz)	(Hz)	, ,	
IBM, 720 x 400	31.469	70.087	28.322	-/+
VESA, 640 x 480	31.469	59.940	25.175	-/-
MAC, 640 x 480	35.000	66.667	30.240	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
MAC, 832 x 624	49.726	74.551	57.284	-/-
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA,1152 X 864	67.500	75.000	108.000	+/+
MAC,1152 X 870	68.681	75.062	100.000	-/-
VESA,1280 X 800	49.702	59.810	83.500	-/+
VESA,1280 X 960	60.000	60.000	108.000	+/+
VESA, 1280 X 1024	63.981	60.020	108.000	+/+
VESA, 1280 X 1024	79.976	75.025	135.000	+/+
VESA,1440 X 900	55.935	59.887	106.500	-/+
VESA,1440 X 900	70.635	74.984	136.750	-/+
VESA,1600 X 1200	75.000	60.000	162.000	+/+
VESA,1680 X 1050	65.290	59.954	146.250	-/+
VESA,1920 X 1080	67.500	60.000	148.500	+/+

Horizontal Frequency

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

Vertical Frequency

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

3-14 Standard Signal Mode Table



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

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

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

B2440L/B2440LX

Display Mode	Horizontal	Vertical Frequency	Pixel Clock (MHz)	Sync Polarity (H/V)
	Frequency (kHz)	(Hz)	, ,	
IBM, 720 x 400	31.469	70.087	28.322	-/+
VESA, 640 x 480	31.469	59.940	25.175	-/-
MAC, 640 x 480	35.000	66.667	30.240	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
MAC, 832 x 624	49.726	74.551	57.284	-/-
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA,1152 X 864	67.500	75.000	108.000	+/+
MAC,1152 X 870	68.681	75.062	100.000	-/-
VESA,1280 X 800	49.702	59.810	83.500	-/+
VESA,1280 X 960	60.000	60.000	108.000	+/+
VESA, 1280 X 1024	63.981	60.020	108.000	+/+
VESA, 1280 X 1024	79.976	75.025	135.000	+/+
VESA,1440 X 900	55.935	59.887	106.500	-/+
VESA,1440 X 900	70.635	74.984	136.750	-/+
VESA,1600 X 1200	75.000	60.000	162.000	+/+
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.

B2440/B2440X

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
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 800	49.702	59.810	83.500	-/+
VESA,1280 X 800	62.795	74.934	106.500	-/+
VESA,1280 X 960	60.000	60.000	108.000	+/+
VESA, 1280 X 1024	63.981	60.020	108.000	+/+
VESA, 1280 X 1024	79.976	75.025	135.000	+/+
VESA,1440 X 900	55.935	59.887	106.500	-/+
VESA,1440 X 900	70.635	74.984	136.750	-/+
VESA,1600 X 1200	75.000	60.000	162.000	+/+
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.

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

3-16 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.

B2440M

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
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 800	49.702	59.810	83.500	-/+
VESA,1280 X 800	62.795	74.934	106.500	-/+
VESA,1280 X 960	60.000	60.000	108.000	+/+
VESA, 1280 X 1024	63.981	60.020	108.000	+/+
VESA, 1280 X 1024	79.976	75.025	135.000	+/+
VESA,1440 X 900	55.935	59.887	106.500	-/+
VESA,1440 X 900	70.635	74.984	136.750	-/+
VESA,1600 X 1200	75.000	60.000	162.000	+/+
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.

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.

BX2240/BX2240X

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
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 800	49.702	59.810	83.500	-/+
VESA,1280 X 800	62.795	74.934	106.500	-/+
VESA,1280 X 960	60.000	60.000	108.000	+/+
VESA, 1280 X 1024	63.981	60.020	108.000	+/+
VESA, 1280 X 1024	79.976	75.025	135.000	+/+
VESA,1440 X 900	55.935	59.887	106.500	-/+
VESA,1440 X 900	70.635	74.984	136.750	-/+
VESA,1600 X 1200	75.000	60.000	162.000	+/+
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.

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.

3-18 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.

BX2440/BX2440X

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
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 800	49.702	59.810	83.500	-/+
VESA,1280 X 800	62.795	74.934	106.500	-/+
VESA,1280 X 960	60.000	60.000	108.000	+/+
VESA, 1280 X 1024	63.981	60.020	108.000	+/+
VESA, 1280 X 1024	79.976	75.025	135.000	+/+
VESA,1440 X 900	55.935	59.887	106.500	-/+
VESA,1440 X 900	70.635	74.984	136.750	-/+
VESA,1600 X 1200	75.000	60.000	162.000	+/+
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.

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.

3-19 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.

E1720NR/E1720NRX

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
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 800	49.702	59.810	83.500	-/+
VESA, 1280 x 800	62.795	74.934	106.500	-/+
VESA, 1280 x 960	60.000	60.000	108.000	+/+
VESA, 1280 x 1024	63.981	60.020	108.000	+/+
VESA, 1280 x 1024	79.976	75.025	135.000	+/+

Horizontal Frequency

The time 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.

3-20 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.

E1920/E1920X

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

3-21 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.

E1920R

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 800	49.702	59.810	83.500	-/+
VESA, 1280 x 800	62.795	74.934	106.500	-/+
VESA, 1280 x 960	60.000	60.000	108.000	-/+
VESA, 1280 x 1024	63.981	60.020	108.000	+/+
VESA, 1280 x 1024	79.976	75.025	135.000	+/+

Horizontal Frequency

The time 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.

3-22 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.

E1920N/E1920NX

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

3-23 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.

E1920NR/E1920NRX

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 800	49.702	59.810	83.500	-/+
VESA, 1280 x 800	62.795	74.934	106.500	-/+
VESA, 1280 x 960	60.000	60.000	108.000	+/+
VESA, 1280 x 1024	63.981	60.020	108.000	+/+
VESA, 1280 x 1024	79.976	75.025	135.000	+/+

Horizontal Frequency

The time 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.

3-24 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.

E1920NW /E1920NWX

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
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 800	49.702	59.810	83.500	-/+
VESA, 1280 x 800	62.795	74.934	106.500	-/+
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.

3-25 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.

E1920W/E1920WX

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
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 800	49.702	59.810	83.500	-/+
VESA, 1280 x 800	62.795	74.934	106.500	-/+
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.

3-26 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.

E2020/E2020X

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	-/+
VESA, 640 x 480	31.469	59.940	25.175	-/-
MAC, 640 x 480	35.000	66.667	30.240	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
MAC, 832 x 624	49.726	74.551	57.284	-/-
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1152 x 864	67.500	75.000	108.000	+/+
MAC, 1152 x 870	68.681	75.062	100.000	-/-
VESA, 1280 x 800	49.702	59.810	83.500	-/+
VESA, 1280 x 800	62.795	74.934	106.500	-/+
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.

3-27 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.

E2020N/E2020NX

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640 x 350	31.469	70.086	27.175	+/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
VESA, 640 x 480	31.469	59.940	25.175	-/-
MAC, 640 x 480	35.000	66.667	30.240	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
MAC, 832 x 624	49.726	74.551	57.284	-/-
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1152 x 864	67.500	75.000	108.000	+/+
MAC, 1152 x 870	68.681	75.062	100.000	-/-
VESA, 1280 x 800	49.702	59.810	83.500	-/+
VESA, 1280 x 800	62.795	74.934	106.500	-/+
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.

3-28 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.

E2220/E2220X

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
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	37.156	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 800	49.702	59.810	83.500	-/+
VESA, 1280 x 800	62.795	74.934	106.500	-/+
VESA, 1280 x 960	60.000	60.000	108.000	+/+
VESA, 1280 x 1024	63.981	60.020	108.000	+/+
VESA, 1280 x 1024	79.976	75.025	135.000	+/+
VESA, 1440 x 900	55.935	59.887	106.500	-/+
VESA, 1440 x 900	70.635	74.984	136.750	-/+
VESA, 1600 x 1200	75.000	60.000	162.000	+/+
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.

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.

3-29 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.

E2220N/E2220NX

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
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	37.156	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 800	49.702	59.810	83.500	-/+
VESA, 1280 x 800	62.795	74.934	106.500	-/+
VESA, 1280 x 960	60.000	60.000	108.000	+/+
VESA, 1280 x 1024	63.981	60.020	108.000	+/+
VESA, 1280 x 1024	79.976	75.025	135.000	+/+
VESA, 1440 x 900	55.935	59.887	106.500	-/+
VESA, 1440 x 900	70.635	74.984	136.750	-/+
VESA, 1600 x 1200	75.000	60.000	162.000	+/+
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.

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.

3-30 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.

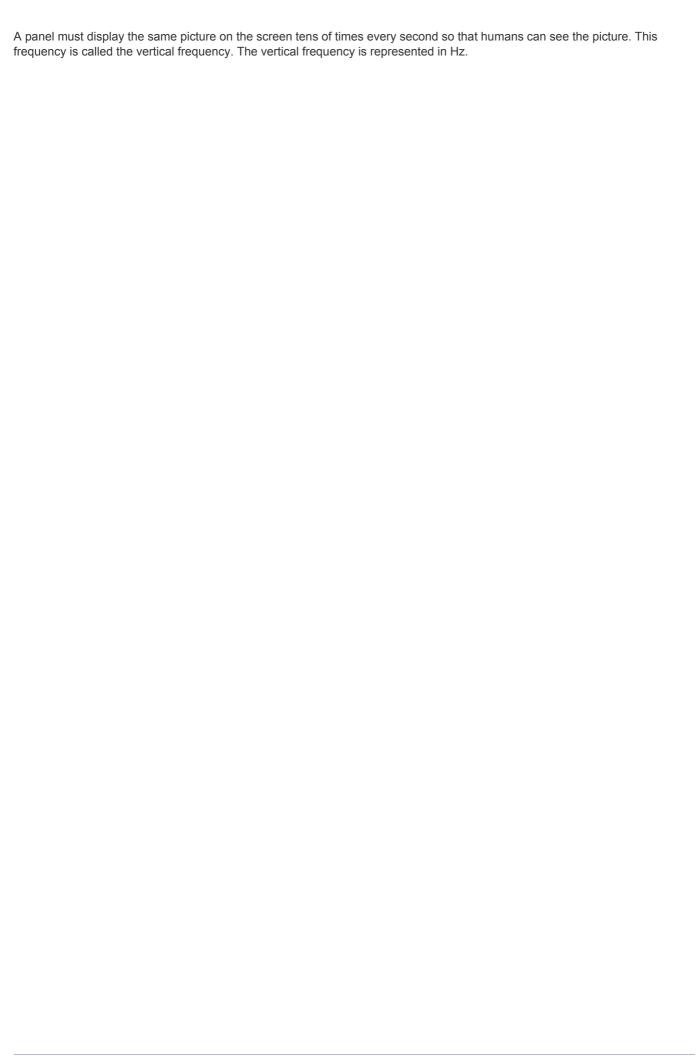
E2220NW

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
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 800	49.702	59.810	83.500	-/+
VESA, 1280 x 800	62.795	74.934	106.500	-/+
VESA, 1280 x 960	60.000	60.000	108.000	+/+
VESA, 1280 x 1024	63.981	60.020	108.000	+/+
VESA, 1280 x 1024	79.976	75.025	135.000	+/+
VESA, 1440 x 900	55.935	59.887	106.500	-/+
VESA, 1440 x 900	70.635	74.984	136.750	-/+
VESA, 1680 x 1050	64.674	59.883	119.000	+/-
VESA, 1680 x 1050	65.290	59.954	146.250	-/+

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



3-31 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.

E2220W /E2220WX

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
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 800	49.702	59.810	83.500	-/+
VESA, 1280 x 800	62.795	74.934	106.500	-/+
VESA, 1280 x 960	60.000	60.000	108.000	+/+
VESA, 1280 x 1024	63.981	60.020	108.000	+/+
VESA, 1280 x 1024	79.976	75.025	135.000	+/+
VESA, 1440 x 900	55.935	59.887	106.500	-/+
VESA, 1440 x 900	70.635	74.984	136.750	-/+
VESA, 1680 x 1050	64.674	59.883	119.000	+/-
VESA, 1680 x 1050	65.290	59.954	146.250	-/+

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



3-32 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.

E2320/E2320X

Dioplay Made	Horizontal	Vertical Frequency	Divol Clock (MHz)	Symo Bolevity (HAA)
Display Mode	Frequency (kHz)	(Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 720 x 400	31.469	70.087	28.322	-/+
VESA, 640 x 480	31.469	59.940	25.175	-/-
MAC, 640 x 480	35.000	66.667	30.240	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
MAC, 832 x 624	49.726	74.511	57.284	-/-
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1152 x 864	67.500	75.000	108.000	+/+
MAC, 1152 x 870	68.681	75.062	100.000	-/-
VESA, 1280 x 800	49.702	59.810	83.500	-/+
VESA, 1280 x 960	60.000	60.000	108.000	+/+
VESA, 1280 x 1024	63.981	60.020	108.000	+/+
VESA, 1280 x 1024	79.976	75.025	135.000	+/+
VESA, 1440 x 900	55.935	59.887	106.500	-/+
VESA, 1440 x 900	70.635	74.984	136.750	-/+
VESA, 1600 x 1200	75.000	60.000	162.000	+/+
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.

3-33 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.

EX2220/EX2220X

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
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	37.156	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 800	49.702	59.810	83.500	-/+
VESA, 1280 x 800	62.795	74.934	106.500	-/+
VESA, 1280 x 960	60.000	60.000	108.000	+/+
VESA, 1280 x 1024	63.981	60.020	108.000	+/+
VESA, 1280 x 1024	79.976	75.025	135.000	+/+
VESA, 1440 x 900	55.935	59.887	106.500	-/+
VESA, 1440 x 900	70.635	74.984	136.750	-/+
VESA, 1600 x 1200	75.000	60.000	162.000	+/+
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.

3-34 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.

B2240MH

DISPLAY MODE	HORIZONTAL FREQUENCY (KHZ)	VERTICAL FREQUENCY (HZ)	PIXEL CLOCK (MHZ)	SYNC POLARITY (H/ V)
IBM,640 X 350	31.469	70.086	25.175	+/-
IBM,720 X 400	31.469	70.087	28.322	-/+
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	59.94	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 800	49.702	59.810	83.500	-/+
VESA,1280 X 800	62.795	74.934	106.500	-/+
VESA,1280 X 960	60.000	60.000	108.000	+/+
VESA, 1280 X 1024	63.981	60.020	108.000	+/+
VESA, 1280 X 1024	79.976	75.025	135.000	+/+
VESA,1440 X 900	55.935	59.887	106.500	-/+
VESA,1440 X 900	70.635	74.984	136.750	-/+
VESA,1600 X 1200	75.000	60.000	162.000	+/+
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.

3-35 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.

B2440MH

DISPLAY MODE	HORIZONTAL FREQUENCY (KHZ)	VERTICAL FREQUENCY (HZ)	PIXEL CLOCK (MHZ)	SYNC POLARITY (H/ V)
IBM, 640 X 350	31.469	70.086	25.175	+/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
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 800	49.702	59.810	83.500	-/+
VESA, 1280 X 800	62.795	74.934	106.500	-/+
VESA, 1280 X 960	60.000	60.000	108.000	+/+
VESA, 1280 X 1024	63.981	60.020	108.000	+/+
VESA, 1280 X 1024	79.976	75.025	135.000	+/+
VESA, 1440 X 900	55.935	59.887	106.500	-/+
VESA, 1440 X 900	70.635	74.984	136.750	-/+
VESA, 1600 X 1200	75.000	60.000	162.000	+/+
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.

3-36 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.

BX2340/BX2340X

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	-/+
VESA, 640 x 480	31.469	59.940	25.175	-/-
MAC, 640 x 480	35.000	66.667	30.240	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
MAC, 832 x 624	49.726	74.551	57.284	-/-
VESA , 1024 x 768	48.363	60.004	65.000	-/-
VESA , 1024 x 768	56.476	70.069	75.000	-/-
VESA , 1024 x 768	60.023	75.029	78.750	+/+
VESA , 1152 x 864	67.500	75.000	108.000	+/+
MAC, 1152 x 870	68.681	75.062	100.000	-/-
VESA, 1280 x 800	49.702	59.810	83.500	-/+
VESA, 1280 x 960	60.000	60.000	108.000	+/+
VESA, 1280 x 1024	63.981	60.020	108.000	+/+
VESA, 1280 x 1024	79.976	75.025	135.000	+/+
VESA, 1440 x 900	55.935	59.887	106.500	-/+
VESA, 1440 x 900	70.635	74.984	136.750	-/+
VESA, 1600 x 1200	75.000	60.000	162.000	+/+
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.

3-37 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.

B1940EW

DISPLAY MODE	HORIZONTAL FREQUENCY (KHZ)	VERTICAL FREQUENCY (HZ)	PIXEL CLOCK (MHZ)	SYNC POLARITY (H/ V)
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
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 800	49.702	59.810	83.500	-/+
VESA, 1280 x 800	62.795	74.934	106.500	-/+
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.

3-38 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.

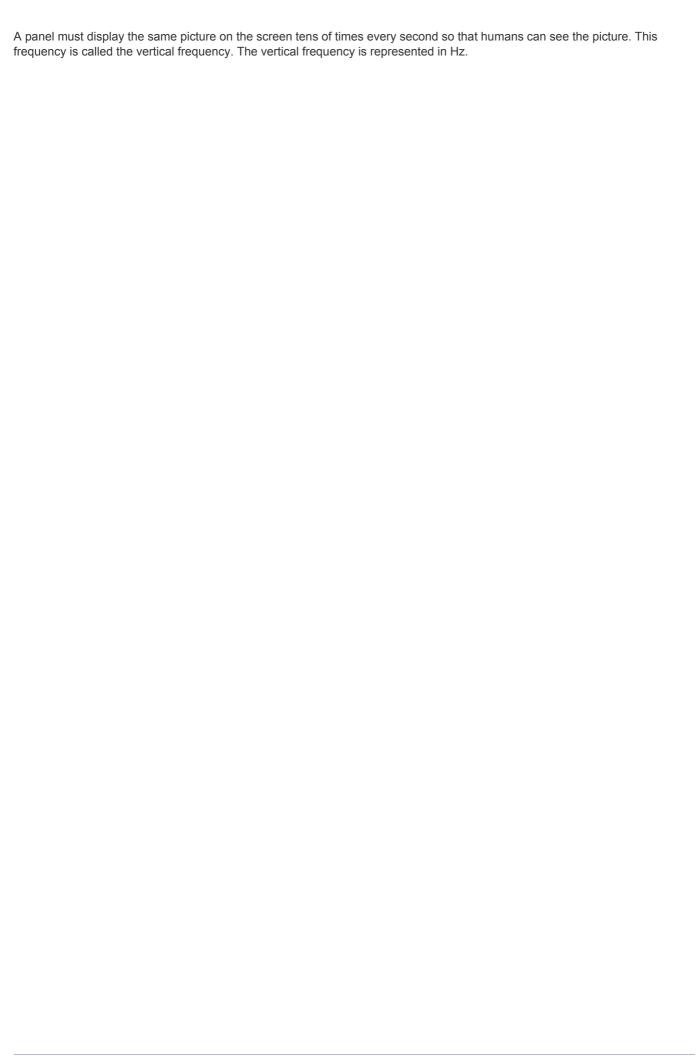
B2240EW

DISPLAY MODE	HORIZONTAL FREQUENCY (KHZ)	VERTICAL FREQUENCY (HZ)	PIXEL CLOCK (MHZ)	SYNC POLARITY (H/V)
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
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 800	49.702	59.810	83.500	-/+
VESA, 1280 x 800	62.795	74.934	106.500	-/+
VESA, 1280 X 960	60.000	60.000	108.000	+/+
VESA, 1280 X 1024	63.981	60.020	108.000	+/+
VESA, 1280 X 1024	79.976	75.025	135.000	+/+
VESA, 1440 x 900	55.935	59.887	106.500	-/+
VESA, 1440 x 900	70.635	74.984	136.750	-/+
VESA, 1680 X 1050	64.674	59.883	119.000	+/-
VESA, 1680 X 1050	65.290	59.954	146.250	-/+

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



3-39 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.

E2420

DISPLAY MODE	HORIZONTAL FREQUENCY (KHZ)	VERTICAL FREQUENCY (HZ)	PIXEL CLOCK (MHZ)	SYNC POLARITY (H/ V)
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
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 800	49.702	59.810	83.500	-/+
VESA,1280 X 800	62.795	74.934	106.500	-/+
VESA,1280 X 960	60.000	60.000	108.000	+/+
VESA, 1280 X 1024	63.981	60.020	108.000	+/+
VESA, 1280 X 1024	79.976	75.025	135.000	+/+
VESA,1440 X 900	55.935	59.887	106.500	-/+
VESA,1440 X 900	70.635	74.984	136.750	-/+
VESA,1600 X 1200	75.000	60.000	162.000	+/+
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.

3-40 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.

E2420NL/E2420NLX

DISPLAY MODE	HORIZONTAL	VERTICAL	PIXEL CLOCK (MHZ)	SYNC POLARITY (H/
DISPLAT MODE	FREQUENCY (KHZ)	FREQUENCY (HZ)	PIXEL CLOCK (WINZ)	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 800	49.702	59.810	83.500	-/+
VESA,1280 X 960	60.000	60.000	108.000	+/+
VESA, 1280 X 1024	63.981	60.020	108.000	+/+
VESA, 1280 X 1024	79.976	75.025	135.000	+/+
VESA,1440 X 900	55.935	59.887	106.500	-/+
VESA,1440 X 900	70.635	74.984	136.750	-/+
VESA,1600 X 1200	75.000	60.000	162.000	+/+
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.

3-41 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.

E2420L/E2420LX

DISPLAY MODE	HORIZONTAL	VERTICAL	PIXEL CLOCK (MHZ)	SYNC POLARITY (H/
DISPLAT MODE	FREQUENCY (KHZ)	FREQUENCY (HZ)	PIXEL CLOCK (WINZ)	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 800	49.702	59.810	83.500	-/+
VESA,1280 X 960	60.000	60.000	108.000	+/+
VESA, 1280 X 1024	63.981	60.020	108.000	+/+
VESA, 1280 X 1024	79.976	75.025	135.000	+/+
VESA,1440 X 900	55.935	59.887	106.500	-/+
VESA,1440 X 900	70.635	74.984	136.750	-/+
VESA,1600 X 1200	75.000	60.000	162.000	+/+
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.

3-42 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.

EX1920/EX1920X

DISPLAY MODE	HORIZONTAL FREQUENCY (KHZ)	VERTICAL FREQUENCY (HZ)	PIXEL CLOCK (MHZ)	SYNC POLARITY (H/ V)
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
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,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.

3-43 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.

EX2020/EX2020X

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 800	49.702	59.810	83.500	-/+
VESA,1280 X 800	62.795	74.934	106.500	-/+
VESA,1440 X 900	55.935	59.887	106.500	-/+
VESA,1440 X 900	70.635	74.984	136.750	-/+
VESA,1600x 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.

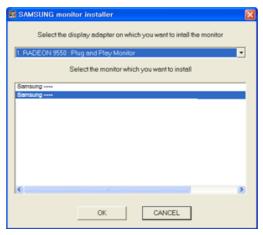
3-44 Installing the Device Driver



If you install the device driver, you can set up the appropriate resolution and frequency 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.

Related Windows 7 driver can be downloaded from Samsung Electronics website.

- 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



Icon		Description		
•	MENU/⊞	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 On: If you press and hold the MENU button down for 5 seconds, the OSD Adjustment Lock function is activated. Off: If you press and hold the MENU button down for 5 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 [m].		
2	M	Users can set the <customized key=""> to one of the following functions. If the user presses the <customized key=""> [1] after setting it, the configured function will be performed • PC signals : <magicbright> - <magicangle> - <magiceco> - <image size=""/> • AV signals : <picture mode=""> - <magicangle> - <magiceco> - <image size=""/> You can set the function of the <customized key=""> by selecting <setup&reset> -> <customized key=""> in the OSD.</customized></setup&reset></customized></magiceco></magicangle></picture></magiceco></magicangle></magicbright></customized></customized>		
3	▲/ ▼	Use these buttons to navigate the menu or to adjust a value in the OSD.		
4	₽	Use this button to control the brightness of the screen.		

Icon		Description		
6	₽	Activates a highlighted menu item. In the <customized key=""> menu, you can also use this button to sequently switch between functions in the <customized key=""> menu as desired.</customized></customized>		
6	SOURCE	Use this button to select a function If you press the [SOURCE] button when there is no OSD, the input signal (Analog/Digital/HDMI) is switched. When the input signal is switched by pressing [SOURCE] button or the product is turned on, a message displaying the selected input signal appears at the top left of the screen. To select Digital mode, you have to connect the product and the PC with the DVI cable. This function is not available for products with an Analog interface only.		
7	AUTO	Press [AUTO] button to adjust the screen settings automatically This function is only available in Analog mode. If the resolution settings are changed in the Display Properties, the AUTO adjustment function is performed.		
8	Q	Press this button to turn the product on or off 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.		
9	(Ca	When OSD is not on the screen, push the button to adjust volume.		

3-46 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	MagicBright	Picture Mode
	MagicAngle	Coarse	Fine	HDMI Black Level	
COLOR	MagicColor	Red	Green	Blue	Color Tone
	Color Effect	Gamma			
SIZE & POSI-	H-Position	V-Position	Image Size	Menu H-Position	Menu V-Position
0	Reset	Language	MagicReturn	MagicEco	Off Timer On/Off
SETUP&RESET	Off Timer Setting	Key Repeat Time	Customized Key	Auto Source	PC/AV Mode
	Display Time	Menu Transpar- ency			
INFORMA- TION					



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

PICTURE



<PC signals>



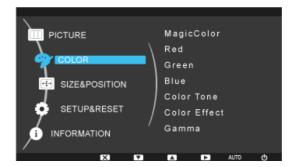
<AV signals>

Menu	Description		
Brightness	Controls the screen brightness. This menu is unavailable when <magicbright> is set to <dynamic contrast=""> mode. This menu is unavailable when <magiceco> is set.</magiceco></dynamic></magicbright>		
Contrast	Controls the contrast of the pictures displayed on the screen This menu is unavailable when <magicbright> is set to <dynamic contrast=""> or <cinema> mode.</cinema></dynamic></magicbright>		
Contrast	 This menu is unavailable when <magiccolor> is set to <full> mode or <intelligent> mode.</intelligent></full></magiccolor> This menu is unavailable when <color effect=""> is set.</color> 		

Menu	Description
	Controls the clarity of details of pictures displayed on the screen
Sharpness	This menu is unavailable when <magicbright> is set to <dynamic contrast=""> or <cinema> mode.</cinema></dynamic></magicbright>
·	This menu is unavailable when <magiccolor> is set to <full> mode or <intelligent> mode.</intelligent></full></magiccolor>
	This menu is unavailable when <color effect=""> is set.</color>
MagicBright	Provides preset picture settings optimized for various user environments such as editing a document, surfing the Internet, playing games, or movies and so on. • <custom> If the preset picture modes are not sufficient, users can configure the brightness> and <contrast> directly using this mode. • <standard> This mode provides the picture setting appropriate for editing a document and surfing the Internet (text + picture). • <game> This mode provides the picture setting appropriate for playing games that include lots of graphics and that require a fast screen refresh rate. • <cinema> This mode provides brightness and sharpness settings similar to those of a TV for the best entertainment environment (movie, DVD, etc.). • <dynamic contrast=""> Controls the picture contrast automatically so that bright and dark pictures are balanced overall. This menu is unavailable when <magicangle> or <magiceco> is set.</magiceco></magicangle></dynamic></cinema></game></standard></contrast></custom>
Picture Mode	The Monitor has four automatic picture settings (<dynamic>, <standard>, <movie> and <custom>) that are preset at the factory. You can activate either Dynamic, Standard, Movie or Custom. You can select Custom which automatically recalls your personalized picture settings. • <dynamic> Select this mode to view a sharper image than in Standard mode. • <standard> Select this mode when the surroundings are bright. This also provides a sharp image. • <movie> Select this mode when the surroundings are dark. This will save power and reduce eye fatigue. • <custom> Select this mode when you want to adjust the image according to your preferences • This can only be set when the external input is connected through HDMI/DVI and <pc av="" mode=""> is set to <av>. • This menu is unavailable when <magicangle> or <magiceco> is set.</magiceco></magicangle></av></pc></custom></movie></standard></dynamic></custom></movie></standard></dynamic>

Menu	Description		
	This feature allows you to see optimal screen quality according to your viewing position. When viewing the screen at an angle from below, above or the side of the monitor, by setting the appropriate mode for each position you can obtain a similar picture quality as viewing the screen directly from the front.		
	Set to <off> when viewing directly in front of the screen.</off>		
	 <off> 1 - Select when viewing from the front position.</off> 		
	 <lean back="" mode1=""> 2 - Select when viewing from a slightly lower position.</lean> 		
	 <lean back="" mode2=""> 3 - Select when viewing from the lower position.</lean> 		
	 <standing mode=""> 4 -Select when viewing from the upper position.</standing> 		
	 <side mode=""></side>		
	 This menu is unavailable when <magicbright> is set to <dynamic contrast=""> or <cinema> mode.</cinema></dynamic></magicbright> This menu is unavailable when <magiccolor> or <color effect=""> is set.</color></magiccolor> 		
	Removes vertical noise lines (line pattern) from the screen.		
	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.		
	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.		
	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.		
HDMI Black Level	• <normal></normal>		
	• <low></low>		
	This function is active only when the external device is connected via <hdmi>. The <hdmi black="" level=""> function may not be compatible with all external devices.</hdmi></hdmi>		

COLOR

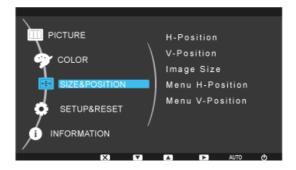


Menu	Description
MagicColor	Expresses natural colors more clearly without changing the picture quality using proprietary digital picture quality improvement technology developed by Samsung Electronics. • <off> - Turns the <magiccolor> function off. • <demo> - You can compare the pictures processed by <magiccolor> with the original pictures. • <full> - Provides a clearer picture including areas corresponding to skin color. • <intelligent> - Improves the chroma of pictures except for areas corresponding to skin color. • This menu is unavailable when <magicangle> is set. • This menu is unavailable when <color effect=""> is set.</color></magicangle></intelligent></full></magiccolor></demo></magiccolor></off>
Red	You can adjust the red color value of pictures according to your preference. This menu is unavailable when <magiccolor> is set to <full> mode or <intelligent> mode. This menu is unavailable when <color effect=""> is set.</color></intelligent></full></magiccolor>
Green	You can adjust the green color value of pictures according to your preference. This menu is unavailable when <magiccolor> is set to <full> mode or <intelligent> mode. This menu is unavailable when <color effect=""> is set.</color></intelligent></full></magiccolor>
Blue	 You can adjust the blue color value of pictures according to your preference. This menu is unavailable when <magiccolor> is set to <full> mode or <intelligent> mode.</intelligent></full></magiccolor> This menu is unavailable when <color effect=""> is set.</color>
Color Tone	You can set the color temperature according to your preference. • <cool> - Sets the color temperature of the screen to a cooler color. • <normal> - Sets the color temperature of the screen to the standard color temperature. • <warm> - Sets the color temperature of the screen to a warmer color. • <custom> - Select this menu to set the color temperature manually. If you do not like the preset color temperatures, you can manually adjust the value of RGB. • This menu is unavailable when <magiccolor> is set to <full> mode or <intelligent> mode. • This menu is unavailable when <magicangle> is set. • This menu is unavailable when <color effect=""> is set.</color></magicangle></intelligent></full></magiccolor></custom></warm></normal></cool>
Color Effect	You can change the overall atmosphere by changing the color of pictures. • <off> - Turns the <color effect=""> function off. • <grayscale> -Displays pictures in black and white. • <green> - Displays pictures in green mono color. • <aqua> - Displays pictures in aqua mono color. • <sepia> - Displays pictures in sepia mono color. • This menu is unavailable when <magicangle> is set. • This menu is unavailable when <magiccolor> is set.</magiccolor></magicangle></sepia></aqua></green></grayscale></color></off>
Gamma	Using this menu, you can change the intensity of the colors of medium brightness. • <mode1> - <mode2> - <mode3> This menu is unavailable when <magicangle> is set.</magicangle></mode3></mode2></mode1>



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

■ 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, 1080i or 1080P signal is input in AV mode ,select <screen fit="">to adjust</screen>
	horizontal position in 0-6 levels.
	Moves the position of the display area on the screen vertically.
V-Position	This function is only available in Analog mode.
	 When a 720P, 1080i 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.
	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.
Image Size	• <16 : 9> - Displays pictures at the 16 : 9 aspect ratio.
	 <screen fit=""> - If a 720P, 1080i or 1080P signal is input in HDMI/DVI input mode, the picture is displayed as is without truncation.</screen>
	This can only be set when the external input is connected through HDMI/DVI and <pc av="" mode=""> is set to <av>.</av></pc>
	• <4 : 3> - Displays pictures at the 4 : 3 aspect ratio.
	<wide> - Displays pictures at the 16:10 aspect ratio.</wide>
	 <screen fit=""> - If a 720P, 1080i or 1080P signal is input in HDMI/DVI input mode, the picture is displayed as is without truncation.</screen>
	It can only be selected if an external input is connected to the HDMI/ DVI terminal and the <pc av="" mode=""> is set to <av>.</av></pc>
	• When the panel is of 16:10,the screen size options include <4:3>, <wide>,<screen fit="">.</screen></wide>
Menu H-Position	You can adjust the horizontal position of the OSD.
Menu V-Position	You can adjust the vertical position of the OSD.

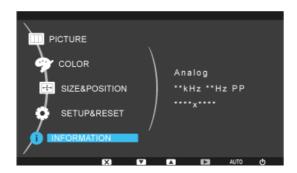
SETUP&RESET



Menu	Description		
Reset	Use this function to restore the visual quality and color settings to the factory defaults. • <no> - <yes></yes></no>		
Language	Select a language for the OSD. • English, Deutsch, Español, Français, Italiano, Svenska, Pусский, Português, Türkçe, Polski, Magyar The selected language is only applied to the product OSD. This setting does not affect the other functions of the PC.		
MagicReturn	Only works in Windows 7 and recommended when using multiple monitors. • <off> When<off>is selected, the<magicreturn>function is turned off. • <on> When<on>is selected, the<magicreturn>function is turned on. • The function is available in Windows 7 only.When use the other OS,it is recommended to set this function to <off>. • This function is not available for analog signal input. • This function is not available when <pc av="" mode=""> is set to <av>. • This function may be unavailable for some graphics cards. These graphics cards don't support the international EDID standard.(DDWG DVI Standard) It is recommended to set this function to <off>. • Press and hold down the ▼ key for 5 seconds while the <check cable="" signal=""> OSD is displayed,<magicreturn> will be automatically set to <off>.</off></magicreturn></check></off></av></pc></off></magicreturn></on></on></magicreturn></off></off>		
MagicEco	This function provides user a low power mode which is realized by lowering the current of the display panel. • <100%> When <100%> is selected, the power consumption is 100% of default setting. • <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. • <power off="" saving=""> When <power off="" saving=""> is selected, the function is turned Off. This menu is unavailable when <magicbright> is set to <dynamic contrast=""> mode.</dynamic></magicbright></power></power>		
Off Timer On/Off	You can turn the Off Timer on or off. • <off> - <on></on></off>		

Menu	Description		
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>		
	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>		
	You can set the function of the Customized Key to one of the following.		
Customized Key	PC signals : <magicbright> - <magicangle> - <magiceco> - <image size=""/></magiceco></magicangle></magicbright>		
	AV signals : <picture mode=""> - <magicangle> - <magiceco> - <image size=""/></magiceco></magicangle></picture>		
	<auto> - The monitor automatically selects an input signal.</auto>		
Auto Source			
	Not applicable to analog (D-SUB)-or-digital (DVI)-dedicated models.		
	Set to PC when connected to a PC.		
	Set to AV when connected to an AV device.		
PC/AV Mode	This function does not support Analog mode.		
	Supplied for the wide models only such as 16:9 or 16:10.		
	The OSD automatically disappears if no action is taken by the user.		
Display Time	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.		
Mona Transparency	• <off> - <on></on></off>		

■ INFORMATION



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

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

What is MagicTune?



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

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

Installing the Software

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



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



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

Restrictions and Problems with the Installation (MagicTune™)

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

System Requirements

os

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



For MagicTune™, Windows 2000 or later is recommended.

Hardware

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



For more information, refer to the website.

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.

What is MagicRotation?



The MagicRotation Software from Samsung Electronics, Inc. provides the user with a rotation feature (0, 90, 180, 270 orientation) that facilitates the optimum utilization of computer display screen, better viewing and improved user productivity.

Installing the Software

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



If the pop-up screen for the software installation does not appear on the main screen, find and double-click the MagicRotation 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 MagicRotation 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 (MagicRotation)

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

Limitation

- **1.** The "Display Driver" should be properly loaded for the MagicRotation to work properly. The installed "Display Driver" should be the latest driver supplied by the vendor.
- **2.** If some applications like Windows Media Player, Real Player, etc. are not displaying movie files properly in 90, 180 and 270 orientations then do the following:
 - · Close the application.
 - Select the Orientation (90, 180, 270) you want to view the application.
 - Relaunch the application.

In most cases this should fix the problem.

- 3. User Applications using OpenGL and DirectDraw (3D drawing) will not function as per the orientation mode selected (90, 180, 270).
 - e.g. 3D games
- 4. DOS based applications in Full Screen Mode will not function as per the orientation mode selected (90, 180, 270).
- **5.** Dual is not supported in Windows™ 98, ME, NT 4.0.
- 6. MagicRotation does not provide support for 24 bits per pixel (Bit depth/Color Quality).
- 7. If you are changing your Graphic Card it is recommended that you uninstall the MagicRotation Software before doing so.

System Requirements

os

- Windows™ 98 SE
- Windows™ Me
- Windows™ NT 4.0
- Windows™ 2000
- · Windows XP Home Edition

- Windows XP Professional
- Windows Vista 32Bit
- Windows 7 32Bit



For MagicRotation, Windows 2000 or later is recommended.

Hardware

- · At least 128MB of memory(recommended)
- · At least 25MB of free space on the hard disk drive

Service Packs

- It is recommended that your System has the latest Service Pack installed.
- For Windows™ NT 4.0, it is recommended to install Internet Explorer 5.0 and above with Active Desktop component.



- For more information, refer to the website.
- Windows[™] is registered trademark of Microsoft Corporation,Inc.

Removing the Software

You can only remove MagicRotation through [Add or Remove Programs] in Windows.

To remove MagicRotation, 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 MagicRotation so that it is highlighted.
- 4. Click [Change or Remove Programs] to remove the software.
- 5. Select [Yes] to start removing MagicRotation.
- 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 MagicRotation, please visit our website.

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



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.

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.



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

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

THE IMAGE IS TOO LIGHT OR TOO DARK.

Adjust the <Brightness> and <Contrast>.

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

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

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

The on screen adjustment menu (OSD) does not appear.		
Did you cancel the screen adjustment?	Check if the <osd adjustment="" lock=""> function is set to Off.</osd>	

The color is weird / The picture	e is displayed in black and white	
Is the entire screen displayed in the same color as if viewing the screen through a cellophane paper?	Check the cable connection to the computer. Reinsert the graphics card into the computer completely. Check if the <color effect=""> is set to <off>.</off></color>	
Is the graphics card configured correctly?	Set up the graphics card referring to the user manual.	
The display area suddenly mo	ves to an edge or to the center.	
Did you change the graphics card or the driver?	Please press the [AUTO] button to run the auto adjustment function.	
Did you change the resolution and frequency appropriate to the product?	Set the resolution and the frequency to the appropriate values in the graphics card	
	refer to the (Standard Signal Mode Table)	
Is the graphics card configured correctly?	Set up the graphics card referring to the user manual.	
The pictures are out-of-focus.		
Did you change the resolution and the frequency appropriate to the product?	Set the resolution and the frequency to the appropriate values in the graphics card	
	refer to the (Standard Signal Mode Table)	
The color is displayed in 16 bit (16 colors). The color has been changed after changing the graphics card.		
Did you install the device driver for the product?	Windows XP : Set the color again by selecting Control Panel → Display → Settings.	
	Windows Vista: Change the color settings by selecting "Control Panel" → "Appearance and Personalization"→"Personalization"→" Resolution".	
	Windows 7 : Change the color settings by selecting "Control Panel" → "Personalization" → "Display" → "Change display settings" → "Advanced settings" → "Monitor".	
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	&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 the driver installation.	
Check if all the Plug&Play (VESA DDC) functions are supported referring to the User Manual of the graphics card.	Install the device driver referring to the descriptions about the driver installation.	
When I look at the exterior edges of the pr	oduct, small alien substances appear on it.	

When I look at the exterior edges of the product, small alien substances appear on it.

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

A "beep, beep" sound is heard when booting the computer.

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

WHEN USING THE PRODUCT WITH A COMPUTER WHICH SUPPORTS THE HDCP (HIGH-BANDWIDTH DIGITAL CONTENT PROTECTION) FUNCTION AND THE HDCP FUNCTION DOES NOT WORK PROPERLY, PLEASE CHANGE THE RELEVANT SETTING AS FOLLOWS:

Change the setting to enable the HDCP function to work properly.

Changing the setting: [MENU] -> <SETUP&RESET> -> <PC/AV Mode> -> <AV>

In this case, the monitor's screen size is enlarged. To change the enlarged screen size, change the relevant setting as follows:

Changing the setting: [MENU] -> <SIZE & POSITION> -> <Image Size> -> <Screen Fit>

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

6 More Information

6-1 Specifications

N	MODEL NAME	B1740R/B1740RX	
Size		17 inches (43 cm)	
Panel	Display area	337.92 mm (H) x 270.336 mm (V)	
	Pixel Pitch	0.264 mm (H) x 0.264 mm (V)	
Synchroniza-	Horizontal	30 ~ 81 kHz	
tion	Vertical	56 ~ 75 Hz	
Display Color		16.7 M	
Decel Co.	Optimum resolution	1280 x 1024 @60Hz	
Resolution	Maximum resolution	1280 x 1024 @75Hz	
		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB 0.7 Vp-p ± 5%	
Input Signal, To	erminated	separate H/V sync, Composite, SOG	
		TTL level (V high \geq 2.0V, V low \leq 0.8V)	
Maximum Pixe	l Clock	135 MHz (Analog, Digital)	
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Signal Cable		15pin-to-15pin D-sub cable, Detachable	
Signal Cable		DVI-D to DVI-D connector, Detachable	
		373.5 x 314.5x 68mm (14.7 x 12.4 x 2.7 inches) (Without Stand)	
Dimensions (W	/xHxD) / Weight (HAS stand)	373.5 x 330.4 x 190.0mm (14.7 x 13.0 x 7.5 inches) / 4.3 kg (9.5 lbs) (With Stand)	
	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
Environmen- tal consider-	Operating	Humidity :10 % ~ 80 %, non-condensing	
ations	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
Glorage		Humidity: 5 % ~ 95 %, non-condensing	
Tilt		-5°~22°	



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

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 W	Less than 0.3 watts	Less than 0.3 watts



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

6-3 Specifications

ı	MODEL NAME	B1940M/B1940MX	
	Size	18.5 inches (47 cm)	
Panel	Display area	409.8 mm (H) x 230.4 mm (V)	
	Pixel Pitch	0.300 mm (H) x 0.300 mm (V)	
Synchroniza-	Horizontal	30 ~ 81 kHz	
tion	Vertical	56 ~ 75 Hz	
Display Color		16.7 M	
	Optimum resolution	1366 x 768 @60Hz	
Resolution	Maximum resolution	1366 x 768 @75Hz	
		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB	
Input Signal T	orminated	0.7 Vp-p ± 5%	
Input Signal, Terminated		separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixe	l Clock	137 MHz (Analog, Digital)	
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.	
		15pin-to-15pin D-sub cable, Detachable	
Signal Cable		DVI-D to DVI-D connector, Detachable	
	Audio Input	1pin, PC Audio Signal Input	
Audio Signal	Audio Output	1pin, Earphone Connector	
	Speaker	1Watt x 2	
		443.4 x 272.5 x 69.5 mm (17.5 x 10.7 x 2.7 inches) (Without Stand)	
Dimensions (WxHxD) / Weight (HAS stand)		443.4 x 323.7 x 190 mm (17.5 x 12.7 x 7.5 inches) / 4.3 kg (9.5 lbs) (With Stand)	
	Oncreting	Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
Environmen- tal consider-	Operating	Humidity :10 % ~ 80 %, non-condensing	
ations	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
	Giorage	Humidity: 5 % ~ 95 %, non-condensing	
Tilt		-5°~22°	



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Class B (Information Communication equipment for residential use)

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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	22 W	Less than 0.3 watts	Less than 0.3 watts



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

6-5 Specifications

N	MODEL NAME	B1940ER	
	Size	19 inches (48 cm)	
Panel	Display area	376.32 mm (H) x 301.056 mm (V)	
	Pixel Pitch	0.294 mm (H) x 0.294 mm (V)	
Synchroniza-	Horizontal	30 ~ 81 kHz	
tion	Vertical	56 ~ 75 Hz	
Display Color	,	16.7 M	
Decelution	Optimum resolution	1280 x 1024 @60Hz	
Resolution	Maximum resolution	1280 x 1024 @75Hz	
		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB	
Input Signal, T	orminated	0.7 Vp-p ± 5%	
iriput Sigriai, T	emmateu	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixe	l Clock	135 MHz (Analog, Digital)	
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Cianal Cabla		15pin-to-15pin D-sub cable, Detachable	
Signal Cable		DVI-D to DVI-D connector, Detachable	
		417.2 x 344.9 x 70.5 mm (16.4 x 13.6 x 2.8 inches) (Without Stand)	
Dimensions (W	/xHxD) / Weight (HAS stand)	417.2 x 389.7 x 220 mm (16.4 x 15.3 x 8.7 inches) / 4.8 kg (10.6 lbs) (With Stand)	
		Some Europe Area:417.2 x 379.7 x 220 mm (16.4 x 14.9 x 8.7 inches) / 4.8 kg (10.6 lbs) (With Stand)	
	0	Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
Environmen- tal consider-	Operating	Humidity :10 % ~ 80 %, non-condensing	
ations	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
	Clorage	Humidity: 5 % ~ 95 %, non-condensing	
Tilt		-5°~22°	



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

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	22 W	Less than 0.3 watts	Less than 0.3 watts



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

6-7 Specifications

ı	MODEL NAME	B1940R/B1940RX	
	Size	19 inches (48 cm)	
Panel	Display area	376.32 mm (H) x 301.056 mm (V)	
Pixel Pitch		0.294 mm (H) x 0.294 mm (V)	
Synchroniza-	Horizontal	30 ~ 81 kHz	
tion	Vertical	56 ~ 75 Hz	
Display Color		16.7 M	
D 1.0	Optimum resolution	1280 x 1024 @60Hz	
Resolution	Maximum resolution	1280 x 1024 @75Hz	
		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB	
Innut Cianal T	orminated	0.7 Vp-p ± 5%	
Input Signal, T	erminated	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixe	l Clock	135 MHz (Analog, Digital)	
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Cianal Cabla		15pin-to-15pin D-sub cable, Detachable	
Signal Cable		DVI-D to DVI-D connector, Detachable	
		417.2 x 344.9 x 70.5 mm (16.4 x 13.6 x 2.8 inches) (Without Stand)	
Dimensions (W	/xHxD) / Weight (HAS stand)	417.2 x 389.7 x 220 mm (16.4 x 15.3 x 8.7 inches) / 4.8 kg (10.6 lbs) (With Stand)	
		Some Europe Area:417.2 x 379.7 x 220 mm (16.4 x 14.9 x 8.7 inches) / 4.8 kg (10.6 lbs) (With Stand)	
	Operation	Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
Environmen- tal consider-	Operating	Humidity :10 % ~ 80 %, non-condensing	
ations	Storago	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
Storage		Humidity: 5 % ~ 95 %, non-condensing	
Tilt		-5°~22°	



Design and specifications are subject to change without prior notice.



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This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

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	22 W	Less than 0.3 watts	Less than 0.3 watts



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

6-9 Specifications

N	MODEL NAME	B1940MR/B1940MRX	
	Size	19 inches (48 cm)	
Panel	Display area	376.32 mm (H) x 301.06 mm (V)	
	Pixel Pitch	0.294 mm (H) x 0.294 mm (V)	
Synchroniza-	Horizontal	30 ~ 81 kHz	
tion	Vertical	56 ~ 75 Hz	
Display Color		16.7 M	
Danalution	Optimum resolution	1280 x 1024 @60Hz	
Resolution	Maximum resolution	1280 x 1024 @75Hz	
Input Signal, To	erminated	RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB 0.7 Vp-p ± 5%	
1 3		separate H/V sync, Composite, SOG TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixel Clock		135 MHz (Analog, Digital)	
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Signal Cable		15pin-to-15pin D-sub cable, Detachable	
Oigital Gabic		DVI-D to DVI-D connector, Detachable	
	Audio Input	1pin, PC Audio Signal Input	
Audio Signal	Audio Output	1pin, Earphone Connector	
	Speaker	1Watt x 2	
		417.2 x 344.9 x 70.5 mm (16.4 x 13.6 x 2.8 inches) (Without Stand)	
Dimensions (W	/xHxD) / Weight (HAS stand)	417.2 x 389.7 x 220 mm (16.4 x 15.3 x 8.7 inches) / 4.8 kg (10.6 lbs) (With Stand)	
		Some Europe Area:417.2 x 379.7 x 220 mm (16.4 x 14.9 x 8.7 inches) / 4.8 kg (10.6 lbs) (With Stand)	
	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
Environmen- tal consider-	oporating	Humidity :10 % ~ 80 %, non-condensing	
ations	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
		Humidity: 5 % ~ 95 %, non-condensing	
Tilt		-5°~22°	



Design and specifications are subject to change without prior notice.



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This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

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	22 W	Less than 0.3 watts	Less than 0.3 watts



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

6-11 Specifications

N	MODEL NAME	B1940W / B1940WX	
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)	
Synchroniza-	Horizontal	30 ~ 81 kHz	
tion	Vertical	56 ~ 75 Hz	
Display Color		16.7 M	
Deschifer	Optimum resolution	1440 x 900 @60Hz	
Resolution	Maximum resolution	1440 x 900 @75Hz	
		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB	
Input Signal, To	orminated	0.7 Vp-p ± 5%	
iriput Signal, Te	emmateu	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixe	l Clock	137 MHz (Analog, Digital)	
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Cianal Cabla		15pin-to-15pin D-sub cable, Detachable	
Signal Cable		DVI-D to DVI-D connector, Detachable	
		443.0 x 295.1 x 69.15 mm (17.4 x 11.6 x 2.7 inches) (Without Stand)	
Dimensions (WxHxD) / Weight (HAS stand)		443.0 x 337.05 x 190 mm (17.4 x 13.3 x 7.5 inches) / 4.2 kg (9.3 lbs) (With Stand)	
	Operation	Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
Environmen- tal consider-	Operating	Humidity :10 % ~ 80 %, non-condensing	
ations	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
	Ciorago	Humidity: 5 % ~ 95 %, non-condensing	
Tilt		-5°~22°	



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

6-12 Power Saving Function

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

STATE	NORMAL OPERATION	POWER SAVING MODE	POWER OFF
Power Indicator	On	Blinking	Off
Power Consumption	35 W	Less than 0.3 watts	Less than 0.3 watts



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

6-13 Specifications

IV	MODEL NAME	B2240/B2240X	
	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		16.7 M	
Decelution	Optimum resolution	1920 x 1080 @60Hz	
Resolution	Maximum resolution	1920 x 1080 @60Hz	
		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB	
Input Signal, Te	orminated	0.7 Vp-p ± 5%	
iliput Signal, Te	eminated	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixel	Clock	162MHz (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.	
Cianal Cable		15pin-to-15pin D-sub cable, Detachable	
Signal Cable		DVI-D to DVI-D connector, Detachable	
		513.2 x 309.6 x 68 mm (20.2 x 12.2 x 2.7 inches) (Without Stand)	
Dimensions (W	xHxD) / Weight (HAS stand)	513.2 x 341.2 x 190 mm (20.2 x 13.4 x 7.5 inches) / 4.9 kg (10.8 lbs) (With Stand)	
	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
Environmen- tal consider-	Operating	Humidity :10 % ~ 80 %, non-condensing	
ations	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
	Ciolage	Humidity: 5 % ~ 95 %, non-condensing	
Tilt		-5°~22°	



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

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	45 W	Less than 0.3 watts	Less than 0.3 watts



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

6-15 Specifications

IV	ODEL NAME	B2240M / B2240MX		
	Size	21.5 inches (54 cm)		
Panel	Display area	476.64 mm (H) x 268.11 mm (V)		
	Pixel Pitch).24825 mm (H) x 0.24825 mm (V)		
Synchroniza-	Horizontal	30 ~ 81 kHz		
tion	Vertical	56 ~ 75 Hz		
Display Color		16.7 M		
D 1 "	Optimum resolution	1920 x 1080 @60Hz		
Resolution	Maximum resolution	1920 x 1080 @60Hz		
		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB		
land Cianal T		0.7 Vp-p ± 5%		
Input Signal, Te	erminated	separate H/V sync, Composite, SOG		
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)		
Maximum Pixel	Clock	162MHz (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.		
0:		15pin-to-15pin D-sub cable, Detachable		
Signal Cable		DVI-D to DVI-D connector, Detachable		
	Audio Input	1pin, PC Audio Signal Input		
Audio Signal	Audio Output	1pin, Earphone Connector		
	Speaker	1Watt x 2		
		513.2 x 309.6 x 68 mm (20.2 x 12.2 x 2.7 inches) (Without Stand)		
Dimensions (WxHxD) / Weight (HAS stand)		513.2 x 341.2 x 190 mm (20.2 x 13.4 x 7.5 inches) / 5.25 kg (11.6 lbs) (With Stand)		
	Operation	Temperature : 50°F ~ 104°F (10°C ~ 40°C)		
Environmen-	Operating	Humidity :10 % ~ 80 %, non-condensing		
tal consider- ations	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)		
	Storage	Humidity: 5 % ~ 95 %, non-condensing		
Tilt		-5°~22°		



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

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	45 W	Less than 0.3 watts	Less than 0.3 watts



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

6-17 Specifications

N	MODEL NAME	B2240MW/B2240MWX	
	Size	22 inches (55 cm)	
Panel	Display area	473.76 mm (H) x 296.1 mm (V)	
	Pixel Pitch	0.282 mm (H) x 0.282 mm (V)	
Synchroniza-	Horizontal	30 ~ 81 kHz	
tion	Vertical	56 ~ 75 Hz	
Display Color		16.7 M	
Resolution	Optimum resolution	1680 x 1050 @60Hz	
Resolution	Maximum resolution	1680 x 1050 @60Hz	
Input Signal, To	erminated	RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB 0.7 Vp-p ± 5% separate H/V sync, Composite, SOG TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixel Clock		146MHz (Analog,Digital)	
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Signal Cable		15pin-to-15pin D-sub cable, Detachable DVI-D to DVI-D connector, Detachable	
	Audio Input	1pin, PC Audio Signal Input	
Audio Signal	Audio Output	1pin, Earphone Connector	
	Speaker	1Watt x 2	
Dimensions (WxHxD) / Weight (HAS stand)		510.7 x 337.75 x 68 mm (20.1 x 13.3 x 2.7 inches) (Without Stand) 510.7 x 393.2 x 220.0 mm (20.1 x 15.5 x 8.7 inches) / 5.2 kg (11.5 lbs) (With Stand) Some Europe Area:510.7 x 383.2 x 220.0 mm (20.1 x 15.1 x 8.7 inches) / 5.2 kg (11.5 lbs) (With Stand)	
Environmen-	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C) Humidity :10 % ~ 80 %, non-condensing	
tal consider- ations	Storage	Temperature : $-4^{\circ}F \sim 113^{\circ}F$ ($-20^{\circ}C \sim 45^{\circ}C$) Humidity : 5 % \sim 95 %, non-condensing	
Tilt		-5°~22°	



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

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	45 W	Less than 0.3 watts	Less than 0.3 watts



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

6-19 Specifications

N	ODEL NAME	B2240EMW		
	Size	22 inches (55 cm)		
Panel	Display area	473.76 mm (H) x 296.1 mm (V)		
	Pixel Pitch	0.282 mm (H) x 0.282 mm (V)		
Synchroniza-	Horizontal	30 ~ 81 kHz		
tion	Vertical	56 ~ 75 Hz		
Display Color		16.7 M		
December 2	Optimum resolution	1680 x 1050 @60Hz		
Resolution	Maximum resolution	1680 x 1050 @60Hz		
		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB		
Innut Cianal To	arminated	0.7 Vp-p ± 5%		
Input Signal, Te	eminated	separate H/V sync, Composite, SOG		
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)		
Maximum Pixel	Clock	146MHz (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		
	Audio Input	1pin, PC Audio Signal Input		
Audio Signal	Audio Output	1pin, Earphone Connector		
	Speaker	1Watt x 2		
		510.7 x 337.8 x 68 mm (20.1 x 13.3 x 2.7 inches) (Without Stand)		
		510.7 x 393.2 x 220.0 mm (20.1 x 15.5 x 8.7 inches) / 5.15 kg (11.4 lbs) (With Stand)		
Dimensions (W	xHxD) / Weight (HAS stand)	510.7 x 403.9 x 220.0 mm (20.1 x 15.9 x 8.7 inches) / 5.15 kg (11.4 lbs) (With Has-USB Stand)		
		Some Europe Area:510.7 x 383.2 x 220.0 mm (20.1 x 15.1 x 8.7 inches) / 5.15 kg (11.4 lbs) (With Stand)		
	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)		
Environmen- tal consider-	Operating	Humidity:10 % ~ 80 %, non-condensing		
ations	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)		
	Glorage	Humidity: 5 % ~ 95 %, non-condensing		
Tilt		-5°~22°		



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

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	28 W	Less than 0.3 watts	Less than 0.3 watts



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

6-21 Specifications

MODEL NAME		B2340		
	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)		
Synchroniza-	Horizontal	30 ~ 81 kHz		
tion	Vertical	56 ~ 75 Hz		
Display Color		16.7 M		
	Optimum resolution	1920 x 1080 @60Hz		
Resolution	Maximum resolution	1920 x 1080 @60Hz		
		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB		
		0.7 Vp-p ± 5%		
Input Signal, T	erminated	separate H/V sync, Composite, SOG		
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)		
Maximum Pixe	el Clock	164MHz (Analog,Digital)		
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.		
0:		15pin-to-15pin D-sub cable, Detachable		
Signal Cable		DVI-D to DVI-D connector, Detachable		
		551 x 330.6 x 68 mm (21.7 x 13.0 x 2.7 inches) (Without Stand)		
Dimonsions (M	/vHvD) / Moight (HAS stand)	551 x 388.4 x 220 mm (21.7 x 15.3 x 8.7 inches) / 5.45 kg (12 lbs) (With Stand)		
Dimensions (WxHxD) / Weight (HAS stand)		Some Europe Area:551 x 378.4 x 220 mm (21.7 x 14.9 x 8.7 inches) / 5.45 kg (12 lbs) (With Stand)		
	On another or	Temperature : 50°F ~ 104°F (10°C ~ 40°C)		
Environmen- tal consider-	Operating	Humidity :10 % ~ 80 %, non-condensing		
ations	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)		
	Giorage	Humidity: 5 % ~ 95 %, non-condensing		
Tilt		-5°~22°		



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

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	45 W	Less than 0.3 watts	Less than 0.3 watts



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

6-23 Specifications

MODEL NAME		B2440L/B2440LX	
	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)	
Synchroniza-	Horizontal	30 ~ 81 kHz	
tion	Vertical	56 ~ 75 Hz	
Display Color		16.7 M	
D 1 "	Optimum resolution	1920 x 1080 @60Hz	
Resolution	Maximum resolution	1920 x 1080 @60Hz	
		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB	
Innut Cianal T	orminated	0.7 Vp-p ± 5%	
Input Signal, To	erminated	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixe	l Clock	164MHz (Analog,Digital)	
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Oi Obl-		15pin-to-15pin D-sub cable, Detachable	
Signal Cable		DVI-D to DVI-D connector, Detachable	
		570 x 342.4 x 68 mm (22.4 x 13.5 x 2.7 inches) (Without Stand)	
Dimensions (W	/xHxD) / Weight (HAS stand)	570 x 387.8 x 220 mm (22.4 x 15.3 x 8.7 inches) / 5.8 kg (12.8 lbs) (With Stand)	
		Some Europe Area:570 x 377.8 x 220 mm (22.4 x 14.9 x 8.7 inches) / 5.8 kg (12.8 lbs) (With Stand)	
	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
Environmen- tal consider-	Operating	Humidity :10 % ~ 80 %, non-condensing	
ations	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
	Siorage	Humidity: 5 % ~ 95 %, non-condensing	
Tilt		-5°~22°	



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

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	45 W	Less than 0.3 watts	Less than 0.3 watts



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

6-25 Specifications

N	MODEL NAME	B2440/B2440X	
	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		16.7 M	
Decel Co.	Optimum resolution	1920 x 1080 @60Hz	
Resolution	Maximum resolution	1920 x 1080 @60Hz	
		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB	
Input Signal, To	erminated	0.7 Vp-p ± 5%	
iliput Signal, Te	emmateu	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixe	l Clock	164MHz (Analog,Digital)	
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.	
0:10-11-		15pin-to-15pin D-sub cable, Detachable	
Signal Cable		DVI-D to DVI-D connector, Detachable	
		570 x 342.4 x 68 mm (22.4 x 13.5 x 2.7 inches) (Without Stand)	
Dimensions (W	/xHxD) / Weight (HAS stand)	570 x 387.8 x 220 mm (22.4 x 15.3 x 8.7 inches) / 5.7 kg (12.6 lbs) (With Stand)	
		Some Europe Area:570 x 377.8 x 220 mm (22.4 x 14.9 x 8.7 inches) / 5.7 kg (12.6 lbs) (With Stand)	
	Oneration	Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
Environmen-	Operating	Humidity :10 % ~ 80 %, non-condensing	
tal consider- ations	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
	Glorage	Humidity: 5 % ~ 95 %, non-condensing	
Tilt		-5°~22°	



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

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	45 W	Less than 0.3 watts	Less than 0.3 watts



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

6-27 Specifications

N.	MODEL NAME	B2440M		
	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		16.7 M		
Resolution	Optimum resolution	1920 x 1080 @60Hz		
Resolution	Maximum resolution	1920 x 1080 @60Hz		
Input Signal, T	erminated	RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB 0.7 Vp-p ± 5% separate H/V sync, Composite, SOG TTL level (V high ≥ 2.0V, V low ≤ 0.8V)		
Maximum Pixe	l Clock	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		
	Audio Input	1pin, PC Audio Signal Input		
Audio Signal	Audio Output	1pin, Earphone Connector		
	Speaker	1Watt x 2		
Dimensions (WxHxD) / Weight (HAS stand)		570 x 342.4 x 68 mm (22.4 x 13.5 x 2.7 inches) (Without Stand) 570 x 387.8 x 220 mm (22.4 x 15.3 x 8.7 inches) / 5.75 kg (12.7 lbs) (With Stand) Some Europe Area:570 x 377.8 x 220 mm (22.4 x 14.9 x 8.7 inches) / 5.75 kg (12.7 lbs) (With Stand)		
Environmen-	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C) Humidity :10 % ~ 80 %, non-condensing		
tal consider- ations	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Humidity : 5 % ~ 95 %, non-condensing		
Tilt		-5°~22°		



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

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	45 W	Less than 0.3 watts	Less than 0.3 watts



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

6-29 Specifications

MODEL NAME		BX2240/BX2240X	
	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		16.7 M	
Decelution	Optimum resolution	1920 x 1080 @60Hz	
Resolution	Maximum resolution	1920 x 1080 @60Hz	
		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB	
Input Signal, Te	orminated	0.7 Vp-p ± 5%	
iliput Signal, Te	eminated	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixel	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.	
Cianal Cable		15pin-to-15pin D-sub cable, Detachable	
Signal Cable		DVI-D to DVI-D connector, Detachable	
		513.2 x 309.6 x 68 mm (20.2 x 12.2 x 2.7 inches) (Without Stand)	
Dimensions (W	xHxD) / Weight (HAS stand)	513.2 x 341.2 x 190 mm (20.2 x 13.4 x 7.5 inches) / 4.25 kg (9.4 lbs) (With Stand)	
	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
Environmen- tal consider-	Operating	Humidity :10 % ~ 80 %, non-condensing	
ations	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
	Ciolage	Humidity: 5 % ~ 95 %, non-condensing	
Tilt		-5° ~22°	



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

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	22 W	Less than 0.3 watts	Less than 0.3 watts



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

6-31 Specifications

MODEL NAME		BX2440/BX2440X		
	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		16.7 M		
	Optimum resolution	1920 x 1080 @60Hz		
Resolution	Maximum resolution	1920 x 1080 @60Hz		
		RGB Analog,DVI(Digital Visual Interface) Compliant Digital RGB		
Innut Cinnal T	'a marina ata al	0.7 Vp-p ± 5%		
Input Signal, T	erminated	separate H/V sync, Composite, SOG		
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)		
Maximum Pixel Clock		164 MHz (Analog,Digital)		
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.		
Signal Cabla		15pin-to-15pin D-sub cable, Detachable		
Signal Cable		DVI-D to DVI-D connector, Detachable		
		570.0 x 342.4 x 68.0 mm (22.4 x 13.5 x 2.7 inches) (Without Stand)		
Dimensions (V	/xHxD) / Weight (HAS stand)	570.0 x 387.8 x 220.0 mm (22.4 x 15.3 x 8.7 inches) / 5.1 kg (11.2 lbs) (With Stand)		
		Some Europe Area:570.0 x 377.8 x 220.0 mm (22.4 x 14.9 x 8.7 inches) / 5.1 kg (11.2 lbs) (With Stand)		
	Operations	Temperature : 50°F ~ 104°F (10°C ~ 40°C)		
Environmen- tal consider-	Operating	Humidity :10 % ~ 80 %, non-condensing		
ations	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)		
	Giorage	Humidity: 5 % ~ 95 %, non-condensing		
Tilt		-5°~22°		



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

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	25 W	Less than 0.3 watts	Less than 0.3 watts



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

6-33 Specifications

MODEL NAME		E1720NR/E1720NRX		
	Size	17 inches (43 cm)		
Panel	Display area	337.92 mm (H) x 270.336 mm (V)		
	Pixel Pitch	0.264 mm (H) x 0.264 mm (V)		
Synchroniza-	Horizontal	30 ~ 81 kHz		
tion	Vertical	56 ~ 75 Hz		
Display Color		16.7 M		
Decelution	Optimum resolution	1280 x 1024 @60Hz		
Resolution	Maximum resolution	1280 x 1024 @75Hz		
	,	RGB Analog		
Input Signal T	orminated	0.7 Vp-p ± 5%		
Input Signal, To	emmateu	separate H/V sync, Composite, SOG		
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)		
Maximum Pixe	l Clock	135 MHz (Analog)		
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.		
Signal Cable		15pin-to-15pin D-sub cable, Detachable		
Dimensions (M	/xHxD) / Weight (Simple	373.5 x 314.5 x 62 mm (14.7 x 12.4 x 2.4 inches) (Without Stand)		
stand)	xnx <i>b) i W</i> eight (Simple	373.5 x 395.9 x 179.8 mm (14.7 x 15.6 x 7.1 inches) / 3.5 kg (7.7 lbs) (With Stand)		
	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)		
Environmen- tal consider-	Operating	Humidity :10 % ~ 80 %, non-condensing		
ations	Storago	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)		
	Storage	Humidity: 5 % ~ 95 %, non-condensing		
Tilt		-1°~20°		



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

6-34 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 W	Less than 0.3 watts	Less than 0.3 watts



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

6-35 Specifications

MODEL NAME		E1920/E1920X	
	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)	
Synchroniza-	Horizontal	30 ~ 81 kHz	
tion	Vertical	56 ~ 75 Hz	
Display Color		16.7 M	
Desclution	Optimum resolution	1366 x 768 @60Hz	
Resolution	Maximum resolution	1366 x 768 @60Hz	
		RGB Analog,DVI(Digital Visual Interface) Compliant Digital RGB	
Input Cianal T	orminated	0.7 Vp-p ± 5%	
Input Signal, To	erminated	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixe	l Clock	89 MHz (Analog, Digital)	
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Cianal Cabla		15pin-to-15pin D-sub cable, Detachable	
Signal Cable		DVI-D to DVI-D connector, Detachable	
Dimensions (M	(vLlvD) / Maight (Cimple	443.4 x 272.5 x 63.2 mm (17.5 x 10.7 x 2.5 inches) (Without Stand)	
stand)	/xHxD) / Weight (Simple	443.4 x 355 x 179.8 mm (17.5 x 14.0 x 7.1 inches) / 3.45 kg (7.6 lbs) (With Stand)	
	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
Environmen- tal consider-	Operating	Humidity :10 % ~ 80 %, non-condensing	
ations	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
	Ciorage	Humidity: 5 % ~ 95 %, non-condensing	
Tilt		-1°~20°	



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

6-36 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 W	Less than 0.3 watts	Less than 0.3 watts



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

6-37 Specifications

MODEL NAME		E1920R	
	Size	19 inches (48 cm)	
Panel	Display area	376.32 mm (H) x 301.06 mm (V)	
	Pixel Pitch	0.294 mm (H) x 0.294 mm (V)	
Synchroniza-	Horizontal	30 ~ 81 kHz	
tion	Vertical	56 ~ 75 Hz	
Display Color		16.7 M	
Decelution	Optimum resolution	1280 x 1024 @60Hz	
Resolution	Maximum resolution	1280 x 1024 @60Hz	
		RGB Analog,DVI(Digital Visual Interface) Compliant Digital RGB	
Input Signal, Te	arminated	0.7 Vp-p ± 5%	
iriput Oignai, Tt	Similated	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixel	Clock	135 MHz (Analog, Digital)	
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Signal Cable		15pin-to-15pin D-sub cable, Detachable	
Signal Cable		DVI-D to DVI-D connector, Detachable	
Dimensions (M	/xHxD) / Weight (Simple	417.2 x 344.9 x 65.5 mm (16.4 x 13.6 x 2.6 inches) (Without Stand)	
stand)	xnxb) / weight (Simple	417.2 x 426.4 x 179.8 mm (16.4 x 16.8 x 7.1 inches) / 4.2 kg (9.3 lbs) (With Stand)	
	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
Environmen- tal consider-	Operating	Humidity :10 % ~ 80 %, non-condensing	
ations	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
	Otorage	Humidity: 5 % ~ 95 %, non-condensing	
Tilt		-1°~20°	



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

6-38 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	22 W	Less than 0.3 watts	Less than 0.3 watts



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

6-39 Specifications

MODEL NAME		E1920N/E1920NX		
	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)		
Synchroniza-	Horizontal	30 ~ 81 kHz		
tion	Vertical	56 ~ 75 Hz		
Display Color		16.7 M		
Decelution	Optimum resolution	1366 x 768 @60Hz		
Resolution	Maximum resolution	1366 x 768 @60Hz		
		RGB Analog		
Innut Cianal Ta	arminatad	0.7 Vp-p ± 5%		
Input Signal, Te	eminated	separate H/V sync, Composite, SOG		
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)		
Maximum Pixel	Clock	89 MHz (Analog)		
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.		
Signal Cable		15pin-to-15pin D-sub cable, Detachable		
Dimensions (M	(vHvD) / Maight /Cimple	443.4 x 272.5 x 63.2 mm (17.5 x 10.7 x 2.5 inches) (Without Stand)		
stand)	xHxD) / Weight (Simple	443.4 x 355 x 179.8 mm (17.5 x 14.0 x 7.1 inches) / 3.45 kg (7.6 lbs) (With Stand)		
	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)		
Environmen- tal consider-	Operating	Humidity :10 % ~ 80 %, non-condensing		
ations	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)		
	Storage	Humidity: 5 % ~ 95 %, non-condensing		
Tilt		-1°~20°		



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

6-40 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 W	Less than 0.3 watts	Less than 0.3 watts



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

6-41 Specifications

MODEL NAME		E1920NR/E1920NRX	
	Size	19 inches (48 cm)	
Panel	Display area	376.32 mm (H) x 301.06 mm (V)	
	Pixel Pitch	0.294 mm (H) x 0.294 mm (V)	
Synchroniza-	Horizontal	30 ~ 81 kHz	
tion	Vertical	56 ~ 75 Hz	
Display Color		16.7 M	
Decelution	Optimum resolution	1280 x 1024 @60Hz	
Resolution	Maximum resolution	1280 x 1024 @75Hz	
		RGB Analog	
Input Signal T	orminated	0.7 Vp-p ± 5%	
Input Signal, To	emmateu	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixe	l Clock	135 MHz (Analog)	
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Signal Cable		15pin-to-15pin D-sub cable, Detachable	
Dimensions (M	/xHxD) / Weight (Simple	417.2 x 344.9 x 65.5 mm (16.4 x 13.6 x 2.6 inches) (Without Stand)	
stand)	velgit (Simple	417.2 x 426.4 x 179.8 mm (16.4 x 16.8 x 7.1 inches) / 4.2 kg (9.3 lbs) (With Stand)	
	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
Environmen- tal consider-	Operating	Humidity :10 % ~ 80 %, non-condensing	
ations	Storago	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
	Storage	Humidity: 5 % ~ 95 %, non-condensing	
Tilt		-1°~20°	



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

6-42 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	22 W	Less than 0.3 watts	Less than 0.3 watts



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

6-43 Specifications

MODEL NAME		E1920NW /E1920NWX	
	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)	
Synchroniza-	Horizontal	30 ~ 81 kHz	
tion	Vertical	56 ~ 75 Hz	
Display Color		16.7 M	
Decelution	Optimum resolution	1440 x 900 @60Hz	
Resolution	Maximum resolution	1440 x 900 @75Hz	
		RGB Analog	
Input Signal T	orminated	0.7 Vp-p ± 5%	
Input Signal, To	emmateu	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixe	l Clock	137 MHz (Analog)	
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Signal Cable		15pin-to-15pin D-sub cable, Detachable	
Dimensions (M	(vLlvD) / Maight (Cimple	443.0 x 295.1 x 63 mm (17.4 x 11.6 x 2.5 inches) (Without Stand)	
stand)	/xHxD) / Weight (Simple	443.0 x 375.0 x 179.8 mm (17.4 x 14.8 x 7.1 inches) / 3.6 kg (7.9 lbs) (With Stand)	
	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
Environmen- tal consider-	Operating	Humidity :10 % ~ 80 %, non-condensing	
ations	Storago	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
	Storage	Humidity: 5 % ~ 95 %, non-condensing	
Tilt		-1°~20°	



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

6-44 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	35 W	Less than 0.3 watts	Less than 0.3 watts



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

6-45 Specifications

MODEL NAME		E1920W/E1920WX	
	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)	
Synchroniza-	Horizontal	30 ~ 81 kHz	
tion	Vertical	56 ~ 75 Hz	
Display Color		16.7 M	
Decel Co.	Optimum resolution	1440 x 900 @60Hz	
Resolution	Maximum resolution	1440 x 900 @75Hz	
		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB	
Innut Cianal T	orminatod	0.7 Vp-p ± 5%	
Input Signal, To	emmated	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixe	l Clock	137 MHz (Analog, Digital)	
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Cianal Cabla		15pin-to-15pin D-sub cable, Detachable	
Signal Cable		DVI-D to DVI-D connector, Detachable	
		443.0 x 295.1 x 63 mm (17.4 x 11.6 x 2.5 inches) (Without Stand)	
Dimensions (W	/xHxD) / Weight (HAS stand)	443.0 x 375.0 x 179.8 mm (17.4 x 14.8 x 7.1 inches) / 3.6 kg (7.9 lbs) (With Stand)	
	Operation	Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
Environmen- tal consider-	Operating	Humidity :10 % ~ 80 %, non-condensing	
ations	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
	Storage	Humidity: 5 % ~ 95 %, non-condensing	
Tilt		-1°~20°	



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

6-46 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	35 W	Less than 0.3 watts	Less than 0.3 watts



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

6-47 Specifications

ı	MODEL NAME	E2020/E2020X		
	Size	20 inches (50 cm)		
Panel	Display area	442.8 mm (H) x 249.08 mm (V)		
	Pixel Pitch	0.2768 mm (H) x 0.2768 mm (V)		
Synchroniza-	Horizontal	30 ~ 81 kHz		
tion	Vertical	56 ~ 75 Hz		
Display Color		16.7 M		
Danalutian	Optimum resolution	1600 x 900 @60Hz		
Resolution	Maximum resolution	1600 x 900 @60Hz		
		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB		
Innut Cianal T	orminated	0.7 Vp-p ± 5%		
Input Signal, T	erminated	separate H/V sync, Composite, SOG		
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)		
Maximum Pixe	l Clock	150 MHz (Analog, Digital)		
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.		
Signal Cable		15pin-to-15pin D-sub cable, Detachable		
Signal Cable		DVI-D to DVI-D connector, Detachable		
Dimensions (M	/xHxD) / Weight (Simple	477.1 x 289.05 x 62 mm (18.8 x 11.4 x 2.4 inches) (Without Stand)		
stand)	7/11/20) / Weight (Olimpie	477.1 x 368.95 x 179.8 mm (18.8 x 14.5 x 7.1 inches) / 3.95 kg (8.7 lbs) (With Stand)		
	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)		
Environmen- tal consider-	Operating	Humidity :10 % ~ 80 %, non-condensing		
ations	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)		
	Clorage	Humidity: 5 % ~ 95 %, non-condensing		
Tilt		-1°~20°		



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

6-48 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	25 W	0.3 watts	0.3 watts



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

6-49 Specifications

MODEL NAME		E2020N/E2020NX	
	Size	20 inches (50 cm)	
Panel	Display area	442.8 mm (H) x 249.08 mm (V)	
	Pixel Pitch	0.2768 mm (H) x 0.2768 mm (V)	
Synchroniza-	Horizontal	30 ~ 81 kHz	
tion	Vertical	56 ~ 75 Hz	
Display Color		16.7 M	
Resolution	Optimum resolution	1600 x 900 @60Hz	
Resolution	Maximum resolution	1600 x 900 @60Hz	
		RGB Analog	
Input Signal, Te	orminated	0.7 Vp-p ± 5%	
iliput Signal, Te	enninateu	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixel	Clock	150 MHz (Analog)	
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Signal Cable		15pin-to-15pin D-sub cable, Detachable	
Dimensions (M	VHVD) / Moight / Simple	477.1 x 289.05 x 62 mm (18.8 x 11.4 x 2.4 inches) (Without Stand)	
Dimensions (WxHxD) / Weight (Simple stand)		477.1 x 368.95 x 179.8 mm (18.8 x 14.5 x 7.1 inches) / 3.95 kg (8.7 lbs) (With Stand)	
	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
Environmen- tal consider-	Operating	Humidity :10 % ~ 80 %, non-condensing	
ations	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
	2.0.490	Humidity: 5 % ~ 95 %, non-condensing	
Tilt		-1°~20°	



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

6-50 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	25 W	0.3 watts	0.3 watts



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

6-51 Specifications

MODEL NAME		E2220/E2220X			
	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		16.7 M			
Decelution	Optimum resolution	1920 x 1080 @60Hz			
Resolution	Maximum resolution	1920 x 1080 @60Hz			
	,	RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB			
Input Signal, To	orminated	0.7 Vp-p ± 5%			
iliput Sigilai, Ti	emmateu	separate H/V sync, Composite, SOG			
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)			
Maximum Pixe	l Clock	162 MHz (Analog, Digital)			
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.			
Signal Cable		15pin-to-15pin D-sub cable, Detachable			
Signal Cable		DVI-D to DVI-D connector, Detachable			
Dimensions (W	/xHxD) / Weight (Simple	513.2 x 309.6 x 61.9 mm (20.2 x 12.2 x2.4 inches) (Without Stand)			
stand)		513.2 x 388.5 x 200 mm (20.2 x 15.3 x 7.9 inches) / 4.1 kg (9 lbs) (With Stand)			
	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)			
Environmen- tal consider-	Operating	Humidity:10 % ~ 80 %, non-condensing			
ations	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)			
	otorago	Humidity: 5 % ~ 95 %, non-condensing			
Tilt		-1°~20°			



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

6-52 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	45 W	Less than 0.3 watts	Less than 0.3 watts



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

6-53 Specifications

MODEL NAME		E2220N/E2220NX	
	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		16.7 M	
Resolution	Optimum resolution	1920 x 1080 @60Hz	
Resolution	Maximum resolution	1920 x 1080 @60Hz	
		RGB Analog	
Input Signal, Te	erminated	0.7 Vp-p ± 5%	
input oignai, T	ciminated	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixel	l Clock	162 MHz (Analog)	
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Signal Cable		15pin-to-15pin D-sub cable, Detachable	
Dimensions (W	/xHxD) / Weight (Simple	513.2 x 309.6 x 61.9 mm (20.2 x 12.2 x 2.4 inches) (Without Stand)	
stand)		513.2 x 388.5 x 200 mm (20.2 x 15.3 x 7.9 inches) / 4.1 kg (9 lbs) (With Stand)	
	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
Environmental considerations	Operating	Humidity :10 % ~ 80 %, non-condensing	
	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
	Clorago	Humidity: 5 % ~ 95 %, non-condensing	
Tilt		-1°~20°	



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

6-54 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	45 W	Less than 0.3 watts	Less than 0.3 watts



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

6-55 Specifications

MODEL NAME		E2220NW		
	Size	22 inches (55 cm)		
Panel	Display area	473.76 mm (H) x 296.1 mm (V)		
	Pixel Pitch	0.282 mm (H) x 0.282 mm (V)		
Synchroniza-	Horizontal	30 ~ 81 kHz		
tion	Vertical	56 ~ 75 Hz		
Display Color		16.7 M		
Decelution	Optimum resolution	1680 x 1050 @60Hz		
Resolution	Maximum resolution	1680 x 1050 @60Hz		
		RGB Analog		
Input Signal To	arminated	0.7 Vp-p ± 5%		
Input Signal, Te	emmateu	separate H/V sync, Composite, SOG		
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)		
Maximum Pixel	Clock	146 MHz (Analog)		
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.		
Signal Cable		15pin-to-15pin D-sub cable, Detachable		
Dimensions (M	/xHxD) / Weight (Simple	510.7 x 337.75 x 62 mm (20.1 x 13.3 x 2.4 inches) (Without Stand)		
stand)	xnxb) / weight (Simple	510.7 x 418.7 x 200 mm (20.1 x 16.5 x 7.9 inches) / 4.55 kg (10.0 lbs) (With Stand)		
	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)		
Environmen- tal consider-	Operating	Humidity :10 % ~ 80 %, non-condensing		
ations	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)		
	Slorage	Humidity: 5 % ~ 95 %, non-condensing		
Tilt		-1°~20°		



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

6-56 Power Saving Function

This product provides a power saving function that automatically turns the screen off when the product is not used for a predetermined period of time to reduce power consumption. If the product enters power saving mode, the power LED turns to a different color to indicate that the product is in power saving mode.

When the product is in power saving mode, the power is not turned off and you can turn the screen on again by pressing any key or clicking the mouse. However, the power saving function only works when the product is connected to a computer that provides the power saving function.

STATE	NORMAL OPERATION	POWER SAVING MODE	POWER OFF
Power Indicator	On	Blinking	Off
Power Consumption	45 W	Less than 0.3 watts	Less than 0.3 watts

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.



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

6-57 Specifications

N	MODEL NAME	E2220W /E2220WX	
	Size	22 inches (55 cm)	
Panel	Display area	473.76 mm (H) x 296.1 mm (V)	
	Pixel Pitch	0.282 mm (H) x 0.282 mm (V)	
Synchroniza-	Horizontal	30 ~ 81 kHz	
tion	Vertical	56 ~ 75 Hz	
Display Color		16.7 M	
Decelution	Optimum resolution	1680 x 1050 @60Hz	
Resolution	Maximum resolution	1680 x 1050 @60Hz	
		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB	
Input Signal, Te	erminated	0.7 Vp-p ± 5%	
iriput Oignai, Tt	Citimiated	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixel	l Clock	146 MHz (Analog, Digital)	
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Signal Cable		15pin-to-15pin D-sub cable, Detachable	
Signal Cable		DVI-D to DVI-D connector, Detachable	
Dimensions (M	/xHxD) / Weight (Simple	510.7 x 337.75 x 62 mm (20.1 x 13.3 x 2.4 inches) (Without Stand)	
stand)	xnxb) / weight (Simple	510.7 x 418.7 x 200 mm (20.1 x 16.5 x 7.9 inches) / 4.55 kg (10.0 lbs) (With Stand)	
	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
Environmen- tal consider-	Operating	Humidity :10 % ~ 80 %, non-condensing	
ations	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
	Clorago	Humidity: 5 % ~ 95 %, non-condensing	
Tilt		-1°~20°	



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

6-58 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	45 W	Less than 0.3 watts	Less than 0.3 watts



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

6-59 Specifications

MODEL NAME		E2320/E2320X	
	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)	
Synchroniza-	Horizontal	30 ~ 81 kHz	
tion	Vertical	56 ~ 75 Hz	
Display Color		16.7 M	
Desclution	Optimum resolution	1920 x 1080 @60Hz	
Resolution	Maximum resolution	1920 x 1080 @60Hz	
		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB	
Input Signal, T	orminated	0.7 Vp-p ± 5%	
input Signal, 1	erminated	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixe	l Clock	164 MHz (Analog, Digital)	
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Cianal Cabla		15pin-to-15pin D-sub cable, Detachable	
Signal Cable		DVI-D to DVI-D connector, Detachable	
Dimensions (M	(vLlvD) / Maight (Cimple	551 x 330.6 x 62 mm (21.7 x 13.0 x 2.4 inches) (Without Stand)	
stand)	/xHxD) / Weight (Simple	551 x 408.3 x 200 mm (21.7 x 16.0 x 7.9 inches) / 4.75 kg (10.5 lbs) (With Stand)	
	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
Environmen- tal consider-	Operating	Humidity :10 % ~ 80 %, non-condensing	
ations	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
	Otorage	Humidity: 5 % ~ 95 %, non-condensing	
Tilt		-1°~20°	



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

6-60 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	45 W	Less than 0.3 watts	Less than 0.3 watts



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

6-61 Specifications

N	MODEL NAME	EX2220 /EX2220X	
	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		16.7 M	
Decelution	Optimum resolution	1920 x 1080 @60Hz	
Resolution	Maximum resolution	1920 x 1080 @60Hz	
		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB 0.7 Vp-p ± 5%	
Input Signal, T	erminated	separate H/V sync, Composite, SOG TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixe	l Clock	164 MHz (Analog, Digital)	
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Cianal Cabla		15pin-to-15pin D-sub cable, Detachable	
Signal Cable		DVI-D to DVI-D connector, Detachable	
Dimensions (M	/xHxD) / Weight (Simple	513.2 x309.6 x 61.9 mm (20.2 x 12.2 x 2.4 inches) (Without Stand)	
stand)	Albert (Simple	513.2 x 388.5 x 200 mm (20.2 x 15.3 x 7.9 inches) / 3.6 kg (7.9 lbs) (With Stand)	
	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
Environmen- tal consider-	Operating	Humidity :10 % ~ 80 %, non-condensing	
ations	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
	5.5.59	Humidity: 5 % ~ 95 %, non-condensing	
Tilt		-1°~20°	



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

6-62 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	22 W	Less than 0.3 watts	Less than 0.3 watts



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

6-63 Specifications

1	MODEL NAME	B2240MH		
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		16.7 M		
Resolution	Optimum resolution	1920x1080 @60Hz		
	Maximum resolution	1920x1080 @60Hz		
		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB,HDMI,Audio In, Audio Out		
Input Signal, T	erminated	0.7 Vp-p ± 5%		
		separate H/V sync, Composite, SOG		
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)		
Maximum Pixel Clock		162 MHz (Analog, Digital)		
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.		
Signal Cable		15pin-to-15pin D-sub cable, Detachable		
		DVI-D to DVI-D connector, Detachable		
		HDMI Cable ,Detachable		
	Audio Input	1pin, PC Audio Signal Input		
Audio Signal	Audio Output	1pin, Earphone Connector		
	Speaker	1Watt x 2		
Dimensions (V	/xHxD) / Weight (HAS stand)	513.2 x 309.6 x 68mm (20.2 x 12.2 x 2.7 inches) (Without Stand)		
		513.2 x 341.2 x 190mm (20.2 x 13.4 x 7.5 inches) / 4.9 kg (10.8 lbs) (With Stand)		
Environmen-	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)		
tal consider- ations		Humidity :10 % ~ 80 %, non-condensing		
ations	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)		
		Humidity: 5 % ~ 95 %, non-condensing		
Tilt	,	-5°~22°		



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

6-64 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	45W	Less than 0.3 watts	Less than 0.3 watts



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

6-65 Specifications

1	MODEL NAME	BX2340/BX2340X		
	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)		
Synchroniza-	Horizontal	30 ~ 81 kHz		
tion	Vertical	56 ~ 75 Hz		
Display Color		16.7 M		
Resolution	Optimum resolution	1920x1080 @60Hz		
	Maximum resolution	1920x1080 @60Hz		
		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB		
		0.7 Vp-p ± 5%		
Input Signal, T	erminated	separate H/V sync, Composite, SOG		
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)		
Maximum Pixel Clock		164 MHz (Analog, Digital)		
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.		
Signal Cable		15pin-to-15pin D-sub cable, Detachable		
		DVI-D to DVI-D connector, Detachable		
Dimensions (V	VxHxD) / Weight (HAS stand)	551 x 330.6 x 68 mm (21.7 x 13.0 x 2.7 inches) (Without Stand)		
		551 x 388.4 x 220 mm (21.7 x 15.3 x 8.7 inches) / 4.9 kg (10.8 lbs) (With Stand)		
		Some Europe Area:551 x 378.4 x 220 mm (21.7 x 14.9 x 8.7 inches) / 4.9 kg (10.8 lbs) (With Stand)		
Environmen-	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)		
tal consider- ations		Humidity:10 % ~ 80 %, non-condensing		
alions	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)		
		Humidity: 5 % ~ 95 %, non-condensing		
Tilt		-5°~22°		



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

6-66 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	25W	Less than 0.3 watts	Less than 0.3 watts



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

6-67 Specifications

N	MODEL NAME	B1940EW	
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)	
Synchroniza-	Horizontal	30 ~ 81 kHz	
tion	Vertical	56 ~ 75 Hz	
Display Color		16.7 M	
Resolution	Optimum resolution	1440 x 900 @60Hz	
	Maximum resolution	1440 x 900 @75Hz	
		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB	
Input Signal, To	orminated	0.7 Vp-p ± 5%	
iriput Signai, T	emmated	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixe	l Clock	137 MHz (Analog, Digital)	
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Signal Cable		15pin-to-15pin D-sub cable, Detachable	
		DVI-D to DVI-D connector, Detachable	
Dimensions (W	/xHxD) / Weight (HAS stand)	443.0 x 295.1 x 69.15 mm (17.4 x 11.6 x 2.7 inches) (Without Stand)	
		443.0 x 337.05 x 190 mm (17.4 x 13.3 x 7.5 inches) / 4.2 kg (9.3 lbs) (With Stand)	
Environmen-	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
tal consider- ations		Humidity:10 % ~ 80 %, non-condensing	
auono	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
		Humidity: 5 % ~ 95 %, non-condensing	
Tilt		-5°~22°	



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

6-68 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 W	Less than 0.3 watts	Less than 0.3 watts



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

6-69 Specifications

MODEL NAME		B2240EW	
	Size	22 inches (55 cm)	
Panel	Display area	473.76 mm (H) x 296.1 mm (V)	
	Pixel Pitch	0.282 mm (H) x 0.282 mm (V)	
Synchroniza-	Horizontal	30 ~ 81 kHz	
tion	Vertical	56 ~ 75 Hz	
Display Color		16.7 M	
Resolution	Optimum resolution	1680 x 1050 @60Hz	
	Maximum resolution	1680 x 1050 @60Hz	
		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB	
Input Cianal T	orminated	0.7 Vp-p ± 5%	
Input Signal, T	emmateu	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixel Clock		146 MHz (Analog, Digital)	
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Signal Cable		15pin-to-15pin D-sub cable, Detachable	
		DVI-D to DVI-D connector, Detachable	
Dimensions (W	/xHxD) / Weight (HAS stand)	510.7 x 337.75 x 68 mm (20.1 x 13.3 x 2.7 inches) (Without Stand)	
		510.7 x 393.2 x 220 mm (20.1 x 15.5 x 8.7 inches) / 5.2 kg (11.5 lbs) (With Stand)	
		Some Europe Area:510.7 x 383.2 x 220 mm (20.1 x 15.1 x 8.7 inches) / 5.2 kg (11.5 lbs) (With Stand)	
Environmen-	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
tal consider- ations		Humidity :10 % ~ 80 %, non-condensing	
allons	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
		Humidity: 5 % ~ 95 %, non-condensing	
Tilt		-5°~22°	



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

6-70 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	28 W	Less than 0.3 watts	Less than 0.3 watts



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

6-71 Specifications

I	MODEL NAME	E2420	
	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		16.7 M	
Resolution	Optimum resolution	1920 x 1080 @60Hz	
	Maximum resolution	1920 x 1080 @60Hz	
		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB	
Input Signal, T	arminated	0.7 Vp-p ± 5%	
iliput Signal, 1	eminated	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixe	el Clock	164MHz (Analog,Digital)	
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Signal Cable		15pin-to-15pin D-sub cable, Detachable	
		DVI-D to DVI-D connector, Detachable	
	VxHxD) / Weight (Simple	570 x 342.4 x 67 mm (22.4 x 13.5 x 2.6 inches) (Without Stand)	
stand)		570 x 424 x 200 mm (22.4 x 16.7 x 7.9 inches) / 4.9 kg (10.8 lbs) (With Stand)	
Environmen-	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
tal consider- ations		Humidity :10 % ~ 80 %, non-condensing	
	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
		Humidity: 5 % ~ 95 %, non-condensing	
Tilt		-1°~20°	



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

6-72 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	45 W	Less than 0.3 watts	Less than 0.3 watts



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

6-73 Specifications

MODEL NAME		E2420NL/E2420NLX	
	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)	
Synchroniza-	Horizontal	30 ~ 81 kHz	
tion	Vertical	56 ~ 75 Hz	
Display Color		16.7 M	
Resolution	Optimum resolution	1920 x 1080 @60Hz	
	Maximum resolution	1920 x 1080 @60Hz	
		RGB Analog	
Input Signal, To	erminated	0.7 Vp-p ± 5%	
input Oignai, T	Similated	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixe	l Clock	164MHz (Analog)	
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Signal Cable		15pin-to-15pin D-sub cable, Detachable	
,	/xHxD) / Weight (Simple	570 x 342.4 x 67 mm (22.4 x 13.5 x 2.6 inches) (Without Stand)	
stand)		570 x 424 x 200 mm (22.4 x 16.7 x 7.9 inches) / 5.05 kg (11.1 lbs) (With Stand)	
Environmen-	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
tal consider- ations		Humidity :10 % ~ 80 %, non-condensing	
	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
		Humidity: 5 % ~ 95 %, non-condensing	
Tilt		-1°~20°	



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

6-74 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	45 W	Less than 0.3 watts	Less than 0.3 watts



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

6-75 Specifications

MODEL NAME		E2420L/E2420LX	
	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)	
Synchroniza-	Horizontal	30 ~ 81 kHz	
tion	Vertical	56 ~ 75 Hz	
Display Color		16.7 M	
Resolution	Optimum resolution	1920x1080 @60Hz	
	Maximum resolution	1920x1080 @60Hz	
		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB	
Input Signal, Te	orminated	0.7 Vp-p ± 5%	
input Signal, Te	emmateu	separate H/V sync, Composite, SOG	
		TTL level (V high \geq 2.0V, V low \leq 0.8V)	
Maximum Pixel	l Clock	164MHz (Analog,Digital)	
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Signal Cable		15pin-to-15pin D-sub cable, Detachable	
		DVI-D to DVI-D connector, Detachable	
,	/xHxD) / Weight (Simple	570 x 342.4 x 67 mm (22.4 x 13.5 x 2.6 inches) (Without Stand)	
stand)		570 x 424 x 200 mm (22.4 x 16.7 x 7.9 inches) / 5.05 kg (11.1 lbs) (With Stand)	
Environmen-	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
tal consider- ations		Humidity :10 % ~ 80 %, non-condensing	
	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
		Humidity: 5 % ~ 95 %, non-condensing	
Tilt		-1°~20°	



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

6-76 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	45 W	Less than 0.3 watts	Less than 0.3 watts



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

6-77 Specifications

N	MODEL NAME	EX1920/EX1920X	
	Size	18.5 inches (47 cm)	
Panel	Display area	409.8 mm (H) x 230.4 mm (V)	
	Pixel Pitch	0.300 mm (H) x 0.300 mm (V)	
Synchroniza-	Horizontal	30 ~ 81 kHz	
tion	Vertical	56 ~ 75 Hz	
Display Color		16.7 M	
Resolution	Optimum resolution	1366X768 @60Hz	
	Maximum resolution	1366X768 @60Hz	
		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB	
Input Signal, To	orminated	0.7 Vp-p ± 5%	
iriput Sigriai, T	emmateu	separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixel Clock		89MHz (Analog,Digital)	
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Signal Cable		15pin-to-15pin D-sub cable, Detachable	
		DVI-D to DVI-D connector, Detachable	
,	/xHxD) / Weight (Simple	443.4 x 272.5 x 63.2 mm (17.5 x 10.7 x 2.5 inches) (Without Stand)	
stand)		443.4 x 355 x 179.8 mm (17.5 x 14.0 x 7.1 inches) / 3.0 kg (6.6 lbs) (With Stand)	
	Operating	Temperature : 10°C ~ 40°C (50°F ~ 104°F)	
Environmen- tal consider-	Operating	Humidity :10 % ~ 80 %, non-condensing	
ations	Storage	Temperature : -20°C ~ 45°C (-4°F ~ 113°F)	
	0.0.490	Humidity: 5 % ~ 95 %, non-condensing	
Tilt		-1°~20°	



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

6-78 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	18 W	Less than 0.3 watts	Less than 0.3 watts



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

6-79 Specifications

I	MODEL NAME	EX2020/EX2020X		
	Size	20 inches (50 cm)		
Panel	Display area	442.8 mm (H) x 249.075 mm (V)		
	Pixel Pitch	0.2768 mm (H) x 0.2768 mm (V)		
Synchroniza-	Horizontal	30 ~ 81 kHz		
tion	Vertical	56 ~ 75 Hz		
Display Color		16.7 M		
Resolution	Optimum resolution	1600x900 @60Hz		
	Maximum resolution	1600x900 @60Hz		
Input Signal T	'orminated	RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB 0.7 Vp-p ± 5%		
Input Signal, T	erminated	separate H/V sync, Composite, SOG		
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)		
Maximum Pixe	el Clock	108MHz (Analog,Digital)		
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.		
Signal Cable		15pin-to-15pin D-sub cable, Detachable		
		DVI-D to DVI-D connector, Detachable		
· · · · · · · · · · · · · · · · · · ·	VxHxD) / Weight (Simple	477.1 x 289.05 x 62 mm (18.8 x 11.4 x 2.4 inches) (Without Stand)		
stand)		477.1 x 368.95 x 179.8 mm (18.8 x 14.5 x 7.1 inches) / 3.4 kg (7.5 lbs) (With Stand)		
Environmen-	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)		
tal consider- ations		Humidity :10 % ~ 80 %, non-condensing		
	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)		
		Humidity: 5 % ~ 95 %, non-condensing		
Tilt		-1°~20°		



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

6-80 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 W	Less than 0.3 watts	Less than 0.3 watts



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

6-81 Specifications

MODEL NAME		B2240W / B2240WX		
Panel Size		22 inches (55 cm)		
	Display area	473.76 mm (H) x 296.1 mm (V)		
	Pixel Pitch	0.282 mm (H) x 0.282 mm (V)		
Synchroniza-	Horizontal	30 ~ 81 kHz		
tion	Vertical	56 ~ 75 Hz		
Display Color		16.7 M		
Resolution	Optimum resolution	1680 x 1050 @60Hz		
	Maximum resolution	1680 x 1050 @60Hz		
Input Signal, Terminated		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB 0.7 Vp-p ± 5% separate H/V sync, Composite, SOG TTL level (V high ≥ 2.0V, V low ≤ 0.8V)		
Maximum Pixel Clock		146MHz (Analog,Digital)		
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.		
Signal Cable		15pin-to-15pin D-sub cable, Detachable DVI-D to DVI-D connector, Detachable		
Dimensions (V	VxHxD) / Weight (HAS stand)	510.7 x 337.8 x 68 mm (20.1 x 13.3 x 2.7 inches) (Without Stand)		
		510.7 x 393.2 x 220.0 mm (20.1 x 15.5 x 8.7 inches) / 5.2 kg (11.5 lbs) (W Stand)		
		510.7 x 403.9 x 220.0 mm (20.1 x 15.9 x 8.7 inches) / 5.2 kg (11.5 lbs) (With Has-USB Stand)		
		Some Europe Area:510.7 x 383.2 x 220.0 mm (20.1 x 15.1 x 8.7 inches) / 5.2 (11.5 lbs) (With Stand)		
		Some Europe Area:510.7 x 393.9 x 220.0 mm (20.1 x 15.5 x 8.7 inches) / 5.2 kg (11.5 lbs) (With Has-USB Stand)		
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)		
		Humidity: 5 % ~ 95 %, non-condensing		
Tilt		-5°~22°		



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

6-82 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	45 W	Less than 0.3 watts	Less than 0.3 watts



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

6-83 Specifications

ľ	MODEL NAME	B2440MH	
Panel	Size	24 inches (61 cm)	
	Display area	531.36 mm (H) x 298.89 mm (V)	
	Pixel Pitch	0.27675 mm (H) x 0.27675 mm (V)	
Synchroniza-	Horizontal	30 ~ 81 kHz	
tion	Vertical	56 ~ 75 Hz	
Display Color		16.7 M	
Resolution	Optimum resolution	1920x1080 @60Hz	
	Maximum resolution	1920x1080 @60Hz	
		RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB,HDMI,Audio In, Audio Out	
Input Signal, T	erminated	0.7 Vp-p ± 5%	
		separate H/V sync, Composite, SOG	
		TTL level (V high ≥ 2.0V, V low ≤ 0.8V)	
Maximum Pixel Clock		164 MHz (Analog, Digital)	
Power Supply		This product supports 100 – 240 V. Since the standard voltage may differ from country to country, please check the label on the back of the product.	
Signal Cable		15pin-to-15pin D-sub cable, Detachable	
		DVI-D to DVI-D connector, Detachable	
		HDMI Cable ,Detachable	
	Audio Input	1pin, PC Audio Signal Input	
Audio Signal	Audio Output	1pin, Earphone Connector	
	Speaker	1Watt x 2	
Dimensions (W	/xHxD) / Weight (HAS stand)	570 x 342.4 x 68 mm (22.4 x 13.5 x 2.7 inches) (Without Stand)	
		570.0 x 398.5 x 220.0 mm (22.4 x 15.7 x 8.7 inches) / 5.75 kg (12.7 lbs) (With Has-USB Stand)	
		Some Europe Area:570.0 x 388.5 x 220.0 mm (22.4 x 15.3 x 8.7 inches) / 5.75 kg (12.7 lbs) (With Has-USB Stand)	
Environmen- tal consider- ations	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
		Humidity :10 % ~ 80 %, non-condensing	
	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)	
		Humidity: 5 % ~ 95 %, non-condensing	
Tilt		-5°~22°	



Design and specifications are subject to change without prior notice.



Class B (Information Communication equipment for residential use)

This device has been registered regarding EMI for home use (Class B). It may be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

6-84 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	45W	Less than 0.3 watts	Less than 0.3 watts



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

6-85 Contact SAMSUNG WORLDWIDE



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

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ORIVAIIVE	0-000-002-000	http://www.samsung.com/ua_ru	
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 010-6475 1880	http://www.samsung.com	
HONG KONG	(852) 3698 - 4698	http://www.samsung.com/hk http://www.samsung.com/hk_en/	

ASIA PACIFIC				
INDIA	3030 8282 1800 110011 1800 3000 8282 1800 266 8282	http://www.samsung.com		
INDONESIA	0800-112-8888 021-5699-7777	http://www.samsung.com		
JAPAN	0120-327-527	http://www.samsung.com		
MALAYSIA	1800-88-9999	http://www.samsung.com		
NEW ZEALAND	0800 SAMSUNG (0800 726 786)	http://www.samsung.com		
PHILIPPINES	1-800-10-SAMSUNG(726-7864) 1-800-3-SAMSUNG(726-7864) 1-800-8-SAMSUNG(726-7864) 02-5805777	http://www.samsung.com		
SINGAPORE	1800-SAMSUNG(726-7864)	http://www.samsung.com		
TAIWAN	0800-329-999	http://www.samsung.com		
THAILAND	1800-29-3232 02-689-3232	http://www.samsung.com		
VIETNAM	1 800 588 889	http://www.samsung.com		
	MIDDLE EAST & AFRICA			
BAHRAIN	8000-4726			
EGYPT	0800-726786			
JORDAN	800-22273			
KSA	9200-21230	http://www.samsung.com		
QATAR	800-2255			
SOUTH AFRICA	0860-SAMSUNG(726-7864)	http://www.samsung.com		
SYRIA	1825-22-73			
TURKEY	444 77 11	http://www.samsung.com		
U.A.E	800-SAMSUNG(726-7864)	http://www.samsung.com		

6-86 Correct Disposal of This Product (Waste Electrical & Electronic Equipment) - Europe only



(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.