U.S.A.

U.S.FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT INFORMATION TO THE USER

NOTE : This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules.
These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet of a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for assistance.

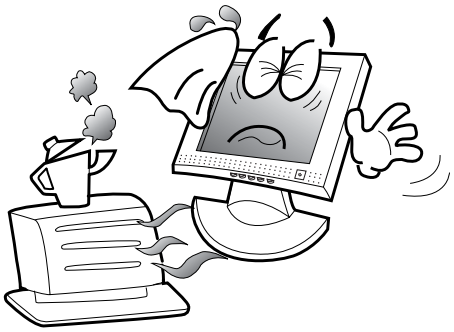
Changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
Connecting of peripherals requires the use of grounded shielded signal cables.

TABLE OF CONTENTS

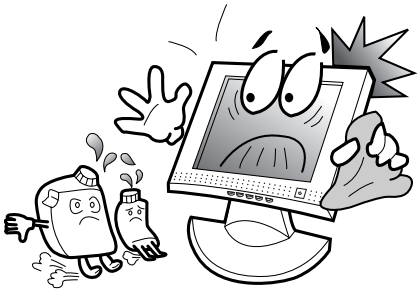
General safety precautions

This Monitor has been engineered and manufactured to assure your safety. Please read this manual and comply with the warnings and the procedures to avoid any serious electrical shock and other serious damage.

1. Do not place anything heavy, wet or magnetic on the monitor or power cord. Do not cover the ventilation openings nor touch them with metallic or flammable material.



2. High temperature can cause troubles. Avoid operating the monitor in extreme heat, humidity or dusty areas. Extreme temperature may cause discoloration or damages.
Ambient Temperature : 0°C ~ 40°C



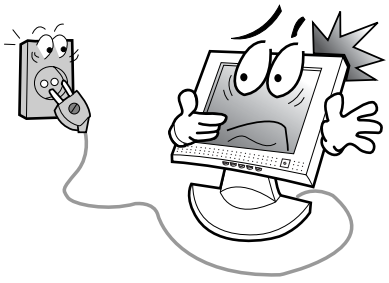
3. Do not use a solvent, such as benzene, to clean the monitor to prevent any damages to the LCD surface.

4. Do not use fine tools such as a pin or a pencil near the monitor to prevent any scratch to the LCD surface.

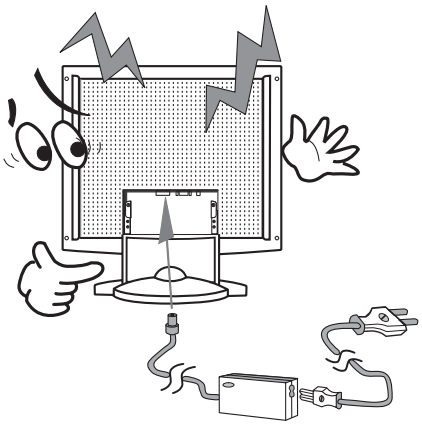
5. Place the monitor on a flat surface to prevent it from falling.

6. Do not apply any mechanical shocks to the machine.

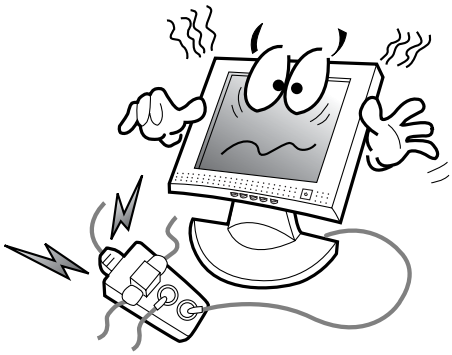
7. Install it in a well-ventilated area or secure enough space for ventilation.



8. Turn the monitor off before connecting it to the power outlet.



9. Make sure that the power cord and the other cords are properly connected.



10. Overloaded AC outlets and extension cords are dangerous. Also, the frayed power cords and the broken plugs may cause electric shock or fire.

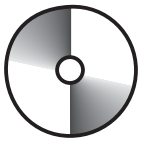
11. Do not open the monitor. There are no user-serviceable components inside. There is a risk of exposure to high-voltage electricity inside, even when power is turned off. If the display monitor does not operate properly, unplug the power cord and contact your dealer. Handling the electrical equipment carelessly will cause a serious electrical shock and other hazards**.**

CAUTION : RISK OF ELECTRIC SHOCK, DO NOT OPEN

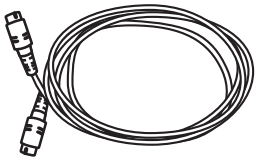
Unpacking your monitor

Please make sure the following items are included with your monitor.
If you find that any of these items are missing or appear damaged, contact your dealer immediately.

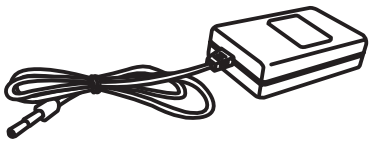
TFT LCD Monitor



CD Disk (Install)

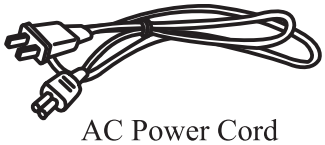


S-Video Cable (Option)



AC/DC Power Adapter

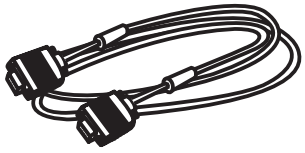
Stereo-Stereo Cable (Option)



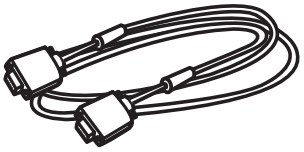
AC Power Cord

Video Cable (Option)

User's Guide



15 Pin VGA signal cable

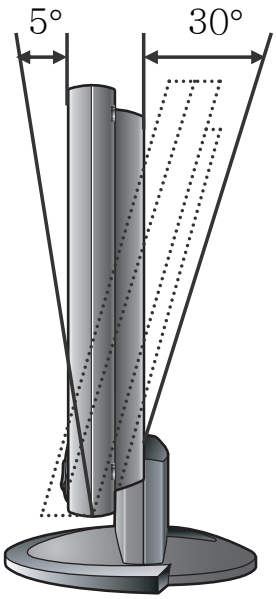


DVI Cable (Option)

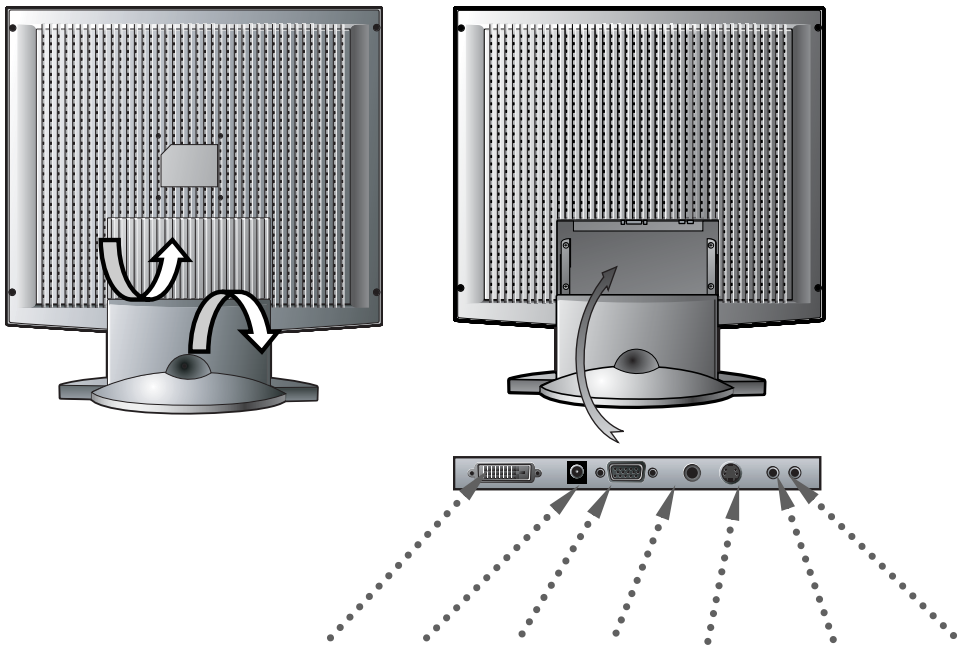
The power cord can be different depending upon different voltage areas.

Viewing angle

Your monitor was designed to allow you to adjust it to a comfortable viewing angle. The viewing angle can be adjusted 5° to 30° forward and backward respectively as indicated by the arrow marks below.



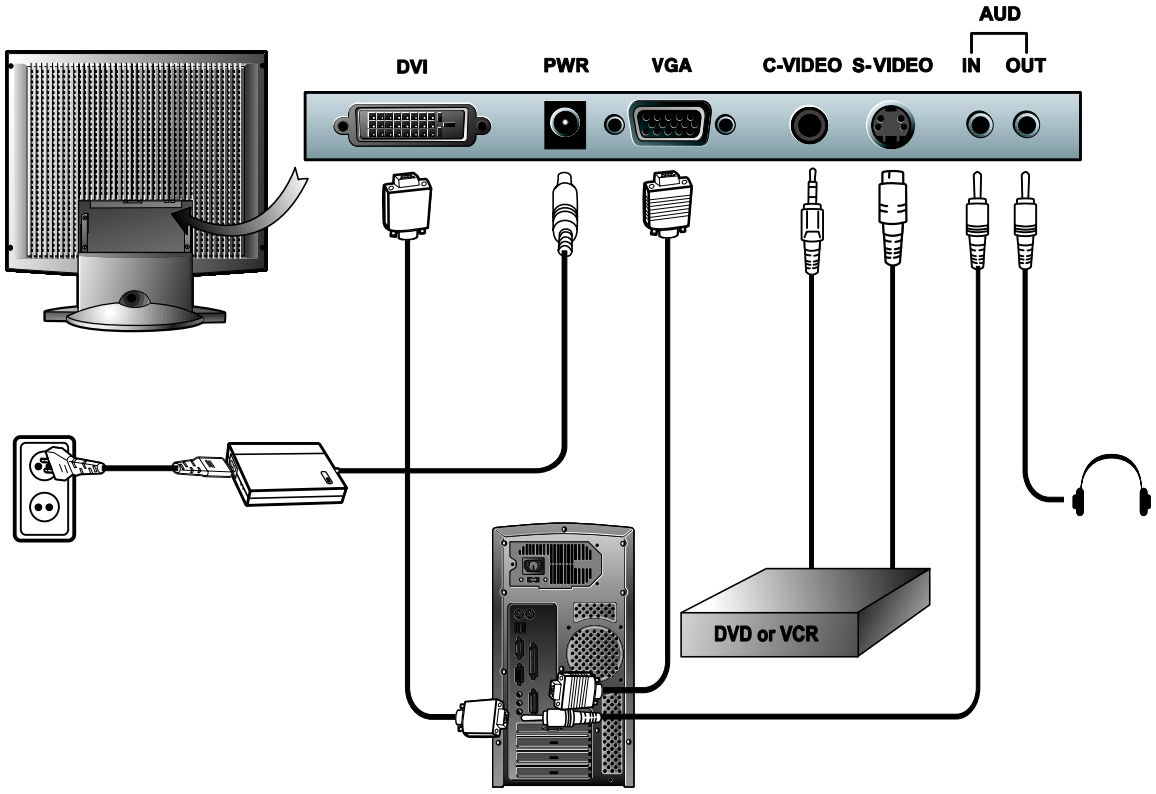
How to open the back cover



DVI, Power, VGA, Video, S-Video, Audio in, Audio out

Connecting your monitor

Be sure to turn the computer off before connecting the monitor

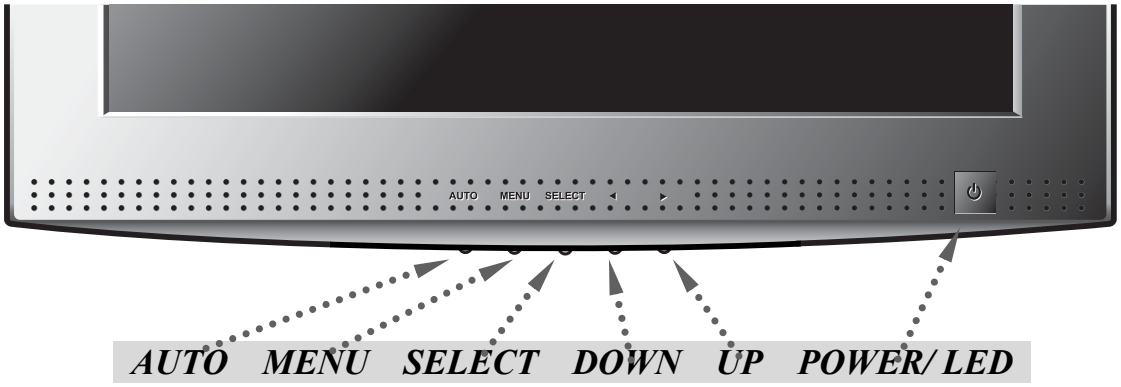


Cable connections

- Connect the Video cable or S-Video cable to your DVD,VCR or camcorder.
- Connect the video signal cable (15Pin connector) to the system's VGA connector which is located on the back panel of the computer.
- Connect the power adaptor cord to the monitor and then to the power supply.
- Insert the audio out jack to the ear phone jack and insert the audio in jack to the sound card port at the back of the computer, DVD or VCR.
- After powering on the computer, DVD or VCR, adjust the display using the various controls provided. For further information on the installation procedure, please refer to the operating guide of the computer being used.

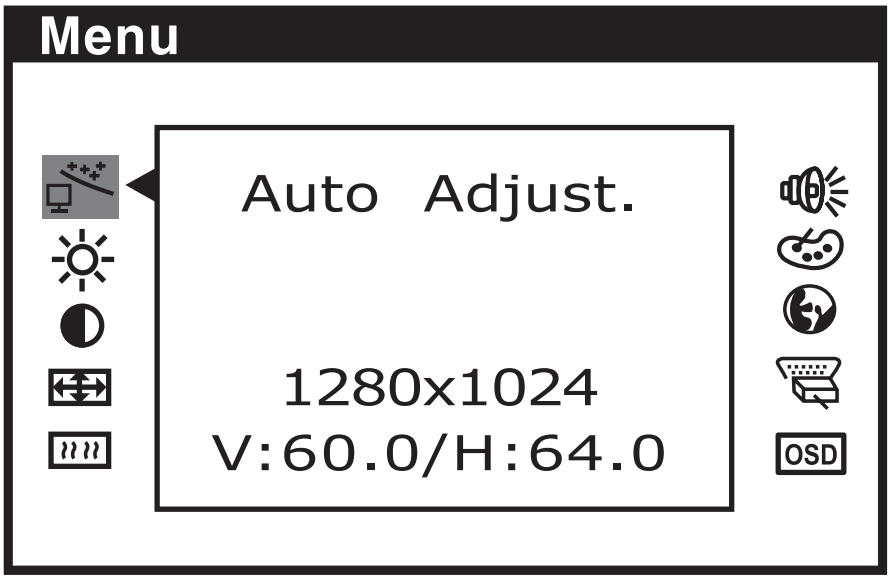
User controls

Front control buttons



No.	Key name	Description
1	AUTO	Activates the auto adjustment function.
2	MENU	Opens the OSD menu.
3	SELECT	Selects the main menu items and sub-menu items.
4	◀	Moves to the lower menu item or sub-menu item. Decreases the value of the parameter.
5	▶	Moves to the upper menu item or sub-menu item. Increases the value of the parameter.
6	POWER	Turns on/off the monitor.
7	LED	Indicates the status of the monitor. • Green : Normal operation. • Amber : Power saving mode or disconnected signal cable.

OSD (On-screen display settings)



OSD Operation

1. Press the menu button to open the menu system and display the main function menu.

2. Push the " ◀ "and " ▶ " buttons to move between the function icons. As you move from one icon to the other, the function name changes to reflect the function or group of functions represented by that icon. See the menu adjustments table to view a complete list of all the functions available for the monitor.

3. Push the select button once to activate the highlighted function. Use the " ◀ "and " ▶ " buttons according to the indicators on the menu to make your changes.

4. To exit from the OSD menu at any time during the operation, press the auto button. If no keys are pressed for a short period of time, the OSD menu will automatically disappear.

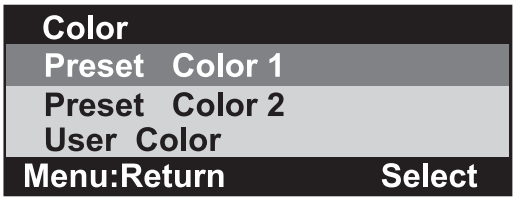
Menu adjustments

Icon	Setting menu	Sub-menus	Description
	**Auto Adjust.**		• Adjusts the Auto Config. (position & phase brief)
	**Brightness**		• Adjusts the screen intensity.
	**Contrast**		• Adjusts the contrast of the screen image.
	**Position**	**H-Position**	• Adjusts the horizontal position of the screen image.
		V-Position	• Adjusts the vertical position of the screen image.
	**Image**	**Clock**	• Adjusts the width of the screen image.
		Phase	• Adjusts the noise of the screen image.
	**Audio**	**Volume**	• Adjusts the volume.
		Mute	• Mute the sound temporarily.
	**Color (Analog/ digital)**	**Preset color 1**	• One of factory set of white balance.
		Preset color 2	• One of factory set of white balance
		User color	• User can change the white level
	Color (video/ S-Video)	**Sharpness**	• Adjust the Sharpness.
		Color	• Adjust the color saturation.
		Tint	• Adjust the color tone.
	**Language**	**English**	•Selects the English language.
		Deutsch	•Selects the Deutsch language.
		Français	•Selects the Français language.
		Español	•Selects the Español language.
		Italiano	•Selects the Italiano language.

Icon	Setting menu	Sub-menus	Description
	Input Select	Analog	•Selects the Analog RGB.
		Digital	•Selects the Digital RGB.
		Video	•Selects the Video.
		S-Video	•Selects the S-Video.
OSD	OSD Function	H Position	• Adjusts the horizontal position of the OSD menu.
		V Position	• Adjusts the vertical position of the OSD menu.
		Off Timer	• Adjusts the OSD display time during the absence of user control

Preset Color 1

One of factory set of white balance.



Preset Color 2

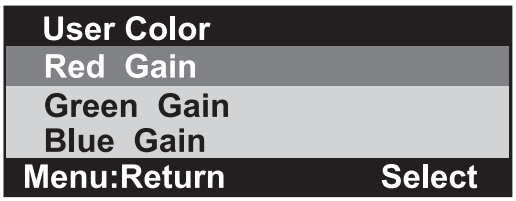
One of factory set of white balance.

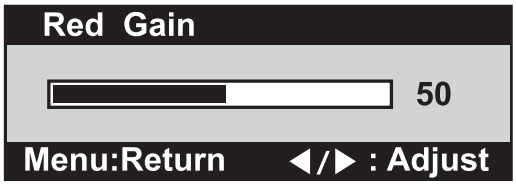
User Color

User can change the white level

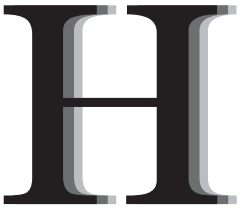
The left (◀) and right (▶) buttons select the kind of color and press select button.

Change the white level with left (◀) and right (▶) button and return.





Refining the picture

Step 1	At first display, a full screen, such as window background or "H" character should be achieved by using editor.
Step 2	Adjust the screen to the center of the display (LCD), by using the top and bottom display controls (i.e. using V-Position menu). 
Step 3	Adjust the screen to the center of the display (LCD) by using the right and left display controls (i.e. using H-Position menu). 
Step 4	Adjust the Phase until the "H" character displays clear. 
Step 5	Using the Contrast, Brightness, set the Color to your preference.
Step 6	When you finish the adjustment, you can save your settings by pressing on the menu until the OSD screen has disappeared.

Power management function

This monitor is equipped with a DPMS(Display Power Management Signaling) function that automatically cuts the power dissipation down to less than 5W when the computer is left unattended.
Although the monitor can be left in power-saving mode for longer periods, we recommend that you turn it off after your daily work.

Status	Description
Green	Power on.
Amber	Power saving.

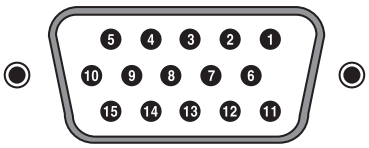
Video input terminal

A 15Pin D-Sub connector is used as the input signal connector.
Each pin and assignment is shown in the table below.

(Analog)

Pin No.	Signal Name	Pin No.	Signal Name
1	RED	**9**	N.C.
2	GREEN	**10**	GROUND
3	BLUE	**11**	GROUND
4	GROUND	**12**	DDC SDA
5	GROUND	**13**	H-Sync
6	RED Ground	**14**	V-Sync
7	GREEN Ground	**15**	DDC SCL
8	BLUE Ground		

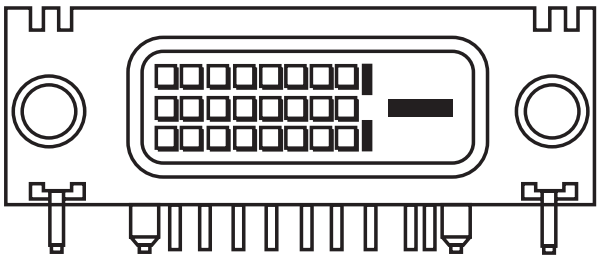
15Pin D-Sub connector



(DVI-V tmds digital RGB)

Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment
1	DATA2-	**11**	DATA SHIELD	**21**	DATA 5+
2	DATA2+	**12**	DATA 3-	**22**	CLOCK SHIELD
3	SHIELD	**13**	DATA 3+	**23**	CLOCK+
4	DATA 4-	**14**	+5V POWER	**24**	CLOCK-
5	DATA 4+	**15**	GROUND(5V)		
6	DDC CLOCK	**16**	HOT PLUG DETECT		
7	DDC DATA	**17**	DATA 0-		
8	N.C	**18**	DATA 0+		
9	TATA1-	**19**	SHIELD		
10	DATA1+	**20**	DATA 5-		

D-SUB DRAWING(CN10)



Display modes

For the display modes listed below, the screen image has been optimized during production.

Preset timing modes. **(Analog)**

Mode	Display Mode	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Standard Type
VGA	640 x 350	31.5KHz	70Hz	IBM®
	720 x 400	31.5KHz	70Hz	IBM®
	640 x 480	31.5KHz	60Hz	Industry Standard
	640 x 480	37.9KHz	72Hz	VESA Standard
	640 x 480	37.5KHz	75Hz	VESA Standard
SVGA	800 x 600	35.2KHz	56Hz	VESA Guidelines
	800 x 600	37.9KHz	60Hz	VESA Guidelines
	800 x 600	48.0KHz	72Hz	VESA Standard
	800 x 600	46.9KHz	75Hz	VESA Standard
XGA	1024 x 768	48.4KHz	60Hz	VESA Guidelines
	1024 x 768	56.5KHz	70Hz	VESA Standard
	1024 x 768	60.0KHz	75Hz	VESA Standard
SXGA	1280 x 1024	64.0KHz	60Hz	VESA Standard
	1280 x 1024	80.0KHz	75Hz	VESA Standard

(Digital)

Mode	Display Mode	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Standard Type
VGA	640 x 350	31.5KHz	70Hz	IBM®
	720 x 400	31.5KHz	70Hz	IBM®
	640 x 480	31.5KHz	60Hz	Industry Standard
	640 x 480	37.9KHz	72Hz	VESA Standard
	640 x 480	37.5KHz	75Hz	VESA Standard
SVGA	800 x 600	35.2KHz	56Hz	VESA Guidelines
	800 x 600	37.9KHz	60Hz	VESA Guidelines
	800 x 600	48.0KHz	72Hz	VESA Standard
	800 x 600	46.9KHz	75Hz	VESA Standard
XGA	1024 x 768	48.4KHz	60Hz	VESA Guidelines
	1024 x 768	56.5KHz	70Hz	VESA Standard
	1024 x 768	60.0KHz	75Hz	VESA Standard
SXGA	1280 x 1024	64.0KHz	60Hz	VESA Standard

※ Our Monitor is not supported outside of this display modes listed above.

Troubleshooting

Warning : This section will try to anticipate potential problems that you may encounter in the day-to-day use of your monitor.
If after trying the suggested solutions, your monitor's symptom remains the same, contact your authorized service center.

Troubleshooting problems

Problems		Corrective Actions
No Picture	LED Green	• Using OSD, adjust Brightness and Contrast to maximum or reset to their default settings.
	LED OFF	• Check the power switch. • Check if the AC power cord is properly connected to the AC adapter.
	LED Amber	• Check if video signal cable is properly connected at the back of monitor. • Check if the power to computer system is ON.
Display is not clear		• Adjust the Frequency and Phase settings.
Too light or too dark		• Adjust the Brightness and Contrast settings.
Image is not centered		• Adjust the Horizontal and Vertical position settings using the OSD.

Problems	Corrective Actions
Out of Range	• Check the maximum resolution and the frequency on the video port of your computer.
Picture is scrambled	• Check the signal cable connection between the computer and monitor.
Picture is fuzzy	• Perform Auto adjust.
Picture bounces or has wavy oscillations	• Check the signal cable connection between computer and monitor.
Picture appears to be ghosting	• Check the signal cable connection between computer and monitor.
Color is not uniform	• Adjust the color settings using the color temperature menu.
The colors are distorted with dark or shadowed areas	• Adjust the color settings using the color temperature menu.
The power indicator is blinking amber	• The monitor is using its power management system. Check the power management utility on your computer.

Specifications

LCD viewable size	**Type**	18.1" viewable diagonal TFT type
	Pixel pitch	0.2805mm(H) x 0.2805mm(V)
	Viewable angle	Horizontal / Vertical / Up / Down : 80 degrees
	Glass surface	Hard coating(3H), Anti-glard treatment of the front polarizer, Haze(13%)
Contrast ratio		300:1 (Typical)
Response time		17ms(Rising), 18ms(Falling)
Display mode		Normally Black
Brightness		250 cd/ m^2
INPUT	**VGA**	RGB Analog, Digital DVI-D(V) Fh : 31.5 to 80 KHz Fv : 56 to 75 Hz
Input resolution		From VGA up to 1280 x 1024 at 75Hz
I/O Connectors		VGA 15-pin D-sub, DVI-D(V), DC Power in Stereo Audio In / Out, Video, S-Video
Power		AC 100~240V, 50/60Hz Input 12V, 5A Max DC Output
User controls		Auto-Adjustment, Brightness, Contrast, Position, Image, Audio, Color, Language, Source select, Miscellaneous
Displayable color		16.7 M (Full Color)
Displayable area		359.040mm(H) x 287.232mm(V)
Temperature	**Operation**	0°C ~ 40°C (32°F ~ 104°F)
	Storage	-25°C ~ 60°C (-13°F ~ 140°F)
Dimensions	**Physical**	444.0mm(W) x 452.7mm(H) x 241.4mm(D)
Weight	**Net**	7.9Kg (17.41lbs)
	Gross	10.8Kg(23.80lbs)
Regulations		UL/cUL, CE, FCC-B, VCCI
Plug & play		VESA DDC 1/2B
Power management		VESA DPMS Compatible