

User's Guide

TFT COLOR LCD MONITOR



XENON

FCC

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution : Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

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 on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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How to get the most enjoyment with monitor

This is a 15.1" color LCD monitor to display signals from PC or Video equipment.

This manual has been prepared to assist you in becoming familiar with your new display monitor.

► **Features**

- 15.1" viewable XGA (1024 × 768) resolution LCD module
- 262,144 Color Display
- Brightness (200cd / m²)
- Viewing angle (U/D: 45°/45°, R/L: 60°/60°)
- DPMS (Display Power Management Signaling)
- OSD (On screen Display) controls, Multi Language OSD Menu
- Implement the DDC 1/2B features.

DDC 1/2B uses a formerly unconnected signal pins in the 15-pin VGA connector.

The system will perform "Plug&Play" feature if both monitor and host systems support DDC 1/2B protocol.

Note



Some computer systems are not compatible with the DDC standard.

If your monitor is displaying a wrong resolution, please check your computer system including a DDC compatible video card.

► General Safety precautions

This Monitor has been engineered and manufactured to assure your safety, and you can prevent your safety from serious electrical shock and other hazards by keeping in the following attentions.



- 1 Do not place heavy, wet or magnetic on the monitor or the power cord. Never cover the ventilation openings with any material and never touch them with metallic or inflammable materials.



- 2 Avoid operating the monitor in the place extremely heated, humid or affected by dust.

Temperature : 0~40°C

Humidity : 30~80RH



- 3 Be sure to turn the monitor off before plugging the power cord into the socket of power source.

Make sure that the power cord and the other cords are securely and rightly connected.



- 4 Overloaded AC outlets and extension cords are dangerous. So are frayed power cords and broken plugs. They may result in a shock or fire hazard. Call your service technician for replacement.

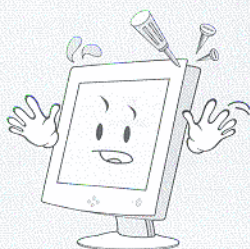


5 Do not use the sharp tool such as pin or pencil to avoid the scratch on the LCD surface.



6 Do not use the solvent such as benzene to clean the monitor. It will damage to LCD surface.

► Maintenance

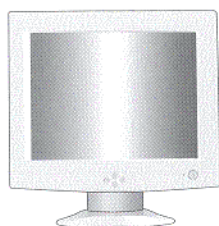


Do not open the monitor. There are no user serviceable components inside.

There is dangerous high voltage inside, even when power is off. If the display monitor does not operate properly, remove the power cord from the wall outlet, and contact your dealer. Careless use and un-professional maintenance are able to cause serious electrical shock and other hazards.

Installation

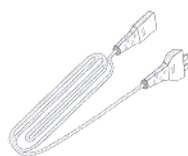
► Packing List



► LCD 15.1" MONITOR



► VGA CABLE



► POWER CORD



► USER'S GUIDE



► AC/DC ADAPTOR

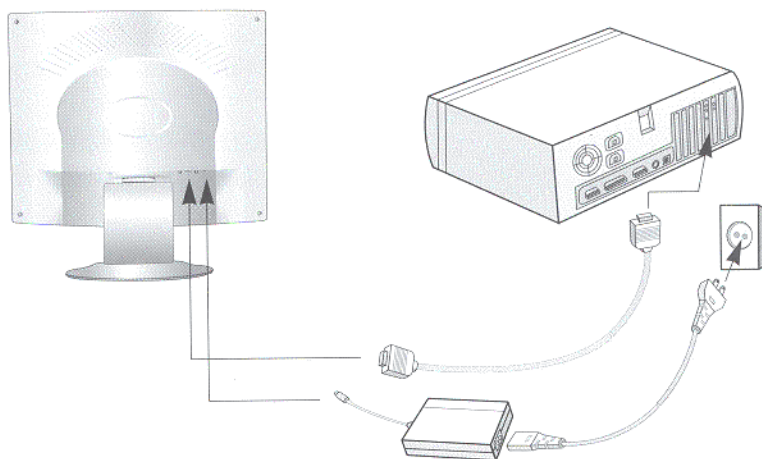


► DISKETTE

► Connecting with external equipment

■ Cautions

Be sure to turn off the power of your computer before connecting the Monitor.



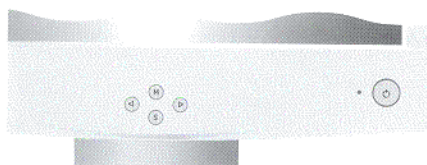
► Video input terminal

A 15 pin D-sub connector is used as the input signal connector. Pin and input signs are shown in the table below

Pin number	Signal name	Pin number	Signal name	Pin number	Signal name
1	Red	2	Green	3	Blue
4	N.C	5	GND	6	RED - GND
7	GREEN - GND	8	BLUE - GND	9	+5V
10	Logic - GND	11	N.C	12	SDA (DDC)
13	H - sync	14	V - sync	15	SCL (DDC)



On Screen Display (OSD) Control Button



○ POWER ON / OFF

• POWER LED INDICATOR

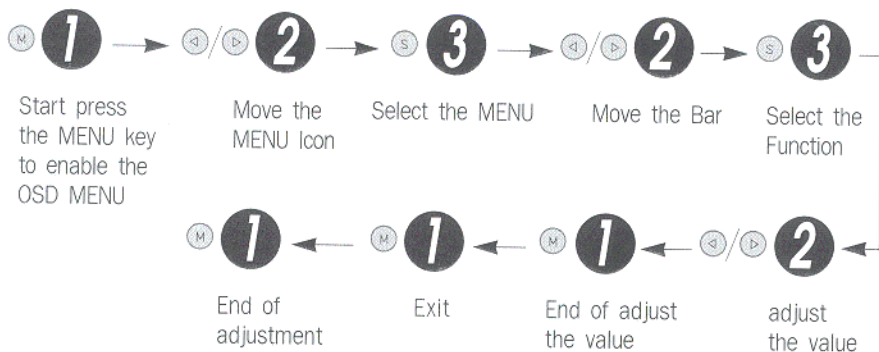
Ⓜ ENABLE THE OSD MENU/ EXIT

⏪ SELECT THE FUNCTION (↑, ↓)

⏩ ADJUST THE VALUE (+, -)

Ⓢ SELECT

OSD Control Procedure



■ Main menu & control selection

Press the MENU key to access the main menu.

The power LED is blinking.

Please select MENU Icon the control function you wish to adjust by the ⏪ or ⏩ key.

■ **Exit Menu**

Press the MENU key to exit.

The power LED is lit green.

■ **Auto exit**

The OSD images are disappeared automatically after few seconds inactivity.

■ **Auto save**

The monitor automatically saves the new setting while OSD is exit.

■ **Normal mode**

When video signal is working with normal display condition, power LED is lit Green.

■ **DPMS mode**

The LED indicates different status when this unit operates in different power saving modes.




■ **Not Supported Video**

When unsuitable signal is detected, the OSD displays "Not Supported Video" message.

Using Hotkey

Frequent adjustments such as AUTOMATIC ADJUSTMENT, BRIGHTNESS and CONTRAST can be done in easy without using MENU key which display all of the control menu.

Following table describes the allocation of the HotKey

OSD Button	Function
	Automatic Adjustment
	Contrast
	Brightness



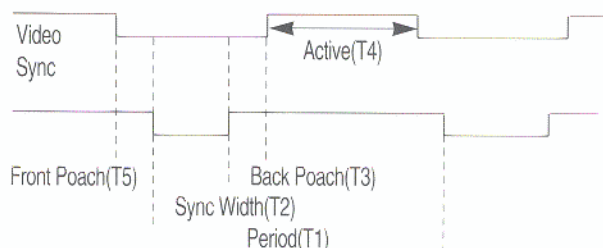
On Screen Display Setting

Auto Adjustment		
	Geometry	Automatically adjust the vertical position, Horizontal position, Horizontal size and Phase
	Color Balance	Automatically adjustment the contrast of the screen
	Horizontal Position	Adjust the horizontal position
	Vertical Position	Adjust the vertical position
	Horizontal Size	Adjust the width of the screen's image
	Phase	Adjust the noise of the screen's image
	Brightness	Adjust the intensity of the screen
	Contrast	Adjust the contrast of the screen
Color		
	Temperature	Adjust the color temperature of the screen's image
	Red	Control the intensity of the Red colour of the screen's image
	Green	Control the intensity of the Green colour of the screen's image
	Blue	Control the intensity of the Blue colour of the screen's image
	OSD Language	Language
	English	English
	French	French
	German	German
	Italian	Italian
	Spanish	Spanish
Advanced		
	Factory Preset	Load the factory preset mode
	Sharpness	Adjust the sharpness of the screen's image
	DOS/GFX	Select resolution 720 X 400 or 640 X 400 mode
	OSD H. Position	Adjust the horizontal position of the OSD
	OSD V. Position	Adjust the vertical position of the OSD
	Cancel	Cancel

Preset Mode chart

► Timing Charts

Support video timings this monitor shall be capable of display following video timing chart.



► Input timing limits

H-sync pulse width $1.0\mu s \leq \text{Sync Pulse Width} \leq 8.0\mu s$

V-sync pulse width $0.04\text{ms} \leq \text{Sync Pulse Width} \leq 0.5\text{ms}$



Note

If the width of Sync pulse is out of input timing range, monitor may be able to operate abnormal. Be sure to check the sync pulse width of input timing.

► Input level limits

Low level : 0.4V max

High level : 2.4V min



Note

For better quality of display image, use the timing and polarity shown in the preset mode table. Please see your video card user's guide to ensure compatibility.

The timing shown in the following table will be factory preset for display.



Power management

This monitor equipped with DPMS(Display Power Management Signaling) function which automatically leads the monitor to the state of power saving that consumes just a little power less than 5Watt, 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

► Operation

The DPMS function requires support from the computer system of any software DPMS function applied, currently being used. If the keyboard(or mouse) is left unattended for a certain period, the program or system will set the sync signals to DPMS modes. The DPMS function has three status.

The recommended signals, power consumption and recovery times are shown in the table below.

Status	Signal			Power Consumption	Recovery Time	LED Indicator
	Hsync	Vsync	Video			
On	Pulse	Pulse	Active	30Watt(Max)	-	Green
Standby	No Pulse	Pulse	Blank	Less than 5Watt	Within 2sec	Alternating Green/Orange(1sec)
Suspend	Pulse	No Pulse	Blank	Less than 5Watt	Within 2sec	Alternating Green/Orange(0.5sec)
Off	No Pulse	No Pulse	Blank	Less than 5Watt	Within 2sec	Off

Specifications

LCD	Type	TFT Color
	Size	15.1" viewable, diagonal
	Dot Pitch	0,300 X 0,300 mm
	Brightness	200 cd / m ² (Typ)
	Response Time	40msec Max.
	Viewing Angle	U/D : 45° / 45°, R/L : 60° / 60°
Input	Signal Type	RGB Analog 15pin D-sub
Sync	H-Freq	31 ~ 60KHz
	V-Freq	56 ~ 75 Hz
Video Band Width		80MHz Max
Display	Active Area	307,2 X 230,4mm
	Color	262,144 (Normal), 16,777,216 (Expansion)
Resolution (max)		1024 X 768@75Hz
User Controls & OSD Controls		Contrast, Brightness, H/V Position etc.
Power Management		As per VESA Standard,
Power Consumption		30 Watt (Max)
Plug & Play		VESA DDC1/2B
Tilt	U/D	35° / 5°
Temperature	Operating	0 to 40°C
	Storage	-10 to 50°C
Humidity	Operating	30% to 80% (Non - condensing)
	Storage	5% to 90% (Non - condensing)
Weight	Unit	4.2 Kg
	Carton	6.1 Kg
Carton Dimension (W X H X Dmm)		460 X 450 X 230mm

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