

'cozy' and 'eye' LCD Monitor

TFT LCD Monitor USER'S MANUAL

This user's manual has been provided for your safety. You can prevent serious electrical shock and hazards by keeping in mind the following :

WARNING

1. Before connecting the AC power cord to the DC adapter outlet, make sure the voltage designation of the DC adapter corresponds to the local electrical supply.
2. Never insert anything metallic into the cabinet openings of the Liquid Crystal Display (LCD) monitor; doing so may create the danger of electric shock.
3. To avoid electric shock, never touch the inside of the LCD monitor.
Only a qualified technician should open the case of the LCD monitor.
4. Never use your LCD monitor if the power cord has been damaged.
Do not allow anything to rest on the power cord, and keep the cord away from areas where people can trip over it.
5. Be sure to hold the plug, not the cord, when disconnecting the LCD monitor from an electric socket.
6. Openings in the LCD monitor cabinet are provided for ventilation.
To prevent overheating, these openings should not be blocked or covered.
Also, avoid using the LCD monitor on a bed, sofa, rug or other soft surface.
Doing so may block the ventilation openings in the bottom of the cabinet.
If you put the LCD monitor in a bookcase or some other enclosed space,
be sure to provide adequate ventilation.

This user's manual has been provided for your safety. You can prevent serious electrical shock and hazards by keeping in mind the following:

! CAUTION

1. Put your LCD monitor in a location with low humidity and a minimum amount of dust.
2. Do not expose the LCD monitor to rain or use it near water.
(in kitchens, near swimming pools, etc.) If the LCD monitor accidentally gets wet, unplug it and contact an authorized dealer immediately. You can clean the LCD monitor with a damp cloth when necessary, but be sure to unplug the LCD monitor first.
3. Place the LCD monitor on a solid surface and treat it carefully.
The screen is made of thin glass with a plastic front surface and can be damaged if dropped, hit or scratched. Do not clean the front panel with ketone-type materials (e.g., acetone), Ethyl alcohol, toluene, Ethyl acid, Methyl or Chloride – these may damage the panel.
4. Position your LCD monitor near an easily accessible AC outlet.
5. If your monitor does not operate normally – in particular, if there are any unusual sounds or smells coming from it – unplug it immediately and contact an authorized dealer or service center.
6. High temperature can cause problems. Don't use your LCD monitor in direct sunlight and keep it away from fireplaces, and other sources of heat.
7. Unplug the LCD monitor when it is going to be left unused for an extended period of time.
8. Unplug your LCD monitor from the AC outlet before any service.

Safety instructions

Warning

Caution

Before installation

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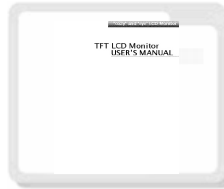
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Characteristics

- Automatically adjusts settings for optical viewing during setup.
- Including power saving mode - VESA DPMS
- HALF TONE OSD (On Screen Display) function

Contents



Connecting a PC



Warning

When connecting the monitor to a PC, be certain the power switch is in the "off" position. This minimizes the risk of electric shock or malfunction.



Caution

Improperly connecting the video cable with the monitor may result in a malfunction. Please verify the method prior to connecting.

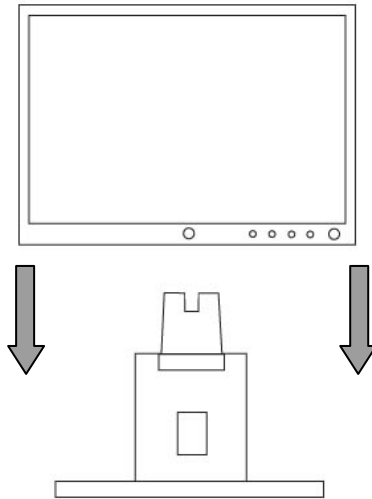
For setting up the monitor

Turn off your computer and monitor.

Connect a PC D-Sub (VGA) Cable between your PC and VGA of the monitor. And then fasten the screws on both sides of the cable.

Connect a DC Power cable to the power input jack of the monitor.

Assembling Monitor



- First, properly align the hinge and the hinge hole which is located on the lower back side of the monitor.
- Second, once the hinge and hinge hole are properly aligned, gently push the hinge into the hinge hole by pressing down from the top of the monitor, making certain that the hinge and stand are firm in their positions.
- Third, continue to push on the top of the monitor until the hinge locks into the monitor.



Warning

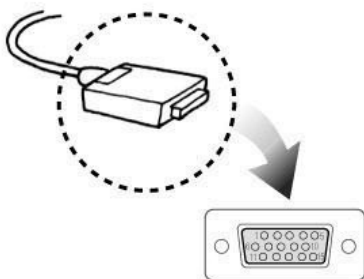
When assembling and disassembling the monitor, take all precautions to avert physical injury. Pressing too hard on the monitor can also damage the unit.

Caution

? When assembling the monitor, avoid pressing too hard on the monitor as it can damage the unit.

- Avoid disassembling the monitor and monitor stand once they have been connected

Pin Assignment

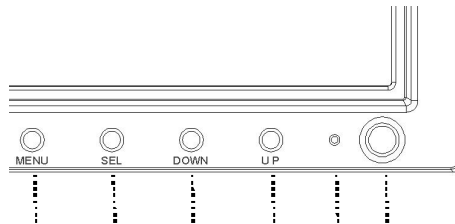


Pin Assignment of 15
Pin D-sub Connector

• Pin	• Name
• 1	• Red
• 2	• Green
• 3	• Blue
• 4	• GND
• 5	• DDC GND
• 6	• Red GND
• 7	• Green GND
• 8	• Blue GND
• 9	• No Connection
• 10	• Sync GND
• 11	• GND
• 12	• DDC-SDA
• 13	• H-Sync
• 14	• V-Sync
• 15	• DDC-SCL
• Shell	• GND

Control for the OSD (On Screen Display)

OSD control buttons



MENU button

OSD Menu on/off

SEL(Select) button

Select a command function and return to menu

- * Hot Key : Without pressing the menu button, you can operate "Auto setup" with the "SEL" button

DOWN button

Move to previous item and decrease the value of the selected item.

- * Hot Key : Without pressing the menu button, you can control "Contrast" with the "DOWN" button.

UP button

Move to increase item and decrease the value of the selected item.

- * Hot Key : Without pressing the menu button, you can control "Brightness" with the "UP" button.

Power LED

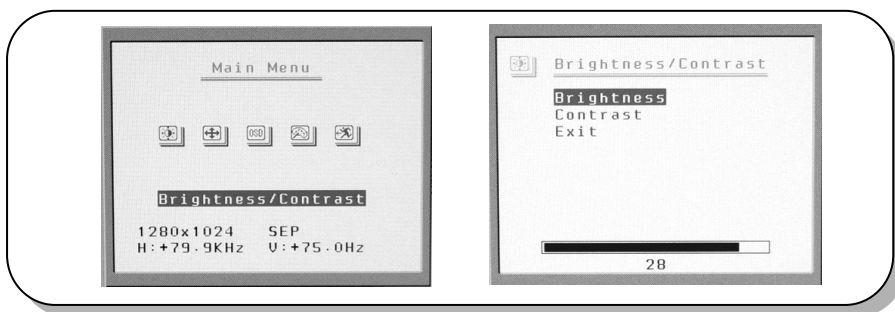
When power is on, the light is working

- * Green : Monitor Power ON
- * OFF : Monitor Power OFF
- * Orange : power Save Mode

Power switch

LCD monitor power on/off

Picture Settings



* Brightness

Menu — Brightness — Select — Control with — Brightness
 — Select — Control with — Main exit

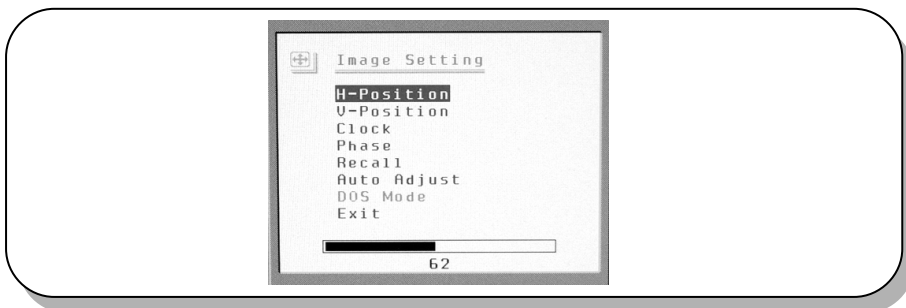
* You can control brightness by following the above procedure.

* Contrast

Menu — Contrast — Select — Control with — Contrast
 — Select — Control with — Main exit

* You can control contrast for letters and images by following the above procedure.

Image Settings



* Position

Menu — Image — Select — Control with — H-Position
 — Select — Control with — Main exit

1. H-Position : Horizontal movement for the screen
2. V-Position : Vertical movement for the screen

* Clock / Phase

Menu — Image — Select — Control with — Clock
 — Select — Control with — Main exit

1. Clock : Frequency Control
2. Phase : Timing Control

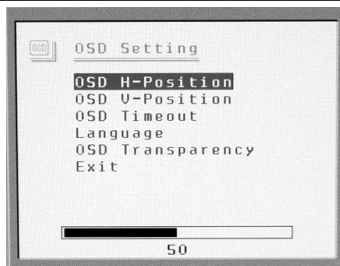
* Auto Adjust

Menu — Image — Select — Control with — Auto Adjust
 — Select — Main exit

You can control the level of noise by following the above procedure.

* Hot Key : When not using the MAIN OSD, by pressing this button you can have the auto-setup process.

OSD settings



* OSD Position control

Menu — OSD Settings — Select — Control with
 — OSD H/V Position — Select — Control with — Exit

1. OSD H Position : OSD Horizontal position
2. OSD V Position : OSD Vertical position

* OSD timeout control

Menu — OSD Settings — Select — Control with
 — OSD Timeout — Select — Control with — Exit

You can adjust the clock per 5 second on OSD

* Language

Menu — OSD Setting — Select — Control with
 — Language — Select — Control with — Exit
 Press +or - button to suit your personal preference

* OSD Transparency control





Menu — OSD Settings — Select — Control with
 — OSD Transparency — Select — Exit





Press +or - button to suit your personal preference

Color Settings







* Color setting





Menu  — Color setting → Select  — Control with   — Color setting

— Select  — Control with   — Main exit 

Color temperature : 9300 / 6500 / 5500 / User

* User color control (Red / Green / Blue)

Menu  — Color setting → Select  — Control with   — R/G/B

— Select  — Control with   — Main exit 

1. Red : Red color control
2. Green : Green color control
3. Blue : Blue color control

Resolution & Frequency

If the video signal from the monitor matches with the signal on the table below, the screen will set up automatically. If the video signal does not match, the screen will not turn on and the LED power light will show orange. Accordingly, it is highly recommended to set up the video card setting as follows :

	Resolution	Frequency			Polarity	
		H-Freq' (KHz)	V-Freq' (Hz)	Pixel Freq' (MHz)	H	V
1	640×350	31.5	70.0	25.2	+	-
2	720×400	31.5	71.0	28.3	-	+
3	640×480	31.5	59.9	25.2	-	-
4	640×480	31.5	59.9	25.2	-	-
5	640×480	35.0	66.7	30.2	-	-
6	640×480	37.9	72.8	31.5	-	-
7	640×480	37.5	75.0	31.5	-	-
8	800×600	35.2	56.3	36.0	+	+
9	800×600	37.9	60.3	40.0	+	+
10	800×600	48.1	72.2	50.0	+	+
11	800×600	46.9	75.0	49.5	+	+
12	1024×768	48.4	60.0	65.0	-	-
13	1024×768	48.8	60.0	64.0	-	-
14	1024×768	56.5	70.1	75.0	-	-
15	1024×768	60.2	74.9	80.0	-	-
16	1024×768	60.0	75.0	78.8	+	+
17	1280×1024	64.0	60.0	108.0	+	+
18	1280×1024	75.0	65.0	125.0	-	-
19	1280×1024	80.0	75.0	135.5	+	+

Before using monitor, please read this manual carefully.

In case of any problem with installation, contact an authorized service center or manufacturer.

Condition	Check
LED lamp is off and screen is blank	<ul style="list-style-type: none">■ Ensure that the power cord is firmly connected and LCD monitor is on.■ Check the power cord whether it is damage
LED lamp show orange color and screen is blank	<ul style="list-style-type: none">■ Ensure that the signal cable is firmly connected to the PC sources.■ Check that the video card and pc source are connected■ Check the PC cable whether it is damaged■ Check the power-saving function
CHECK/INPUT SELECTION show on screen	<ul style="list-style-type: none">■ Check the resolution and the frequency of the monitor whether its values is under specification■ Check the power cord
Screen appear to flicker, jitter or shimmer on the image	<ul style="list-style-type: none">■ Adjust the phase and clock function■ Ensure that the signal cable is firmly connected to the PC sources.■ Check that the video card and pc source are connected■ Check the PC cable whether it is damaged
Screen appear to vibrate on the image	<ul style="list-style-type: none">■ Auto tracking will clear it automatically■ Check the resolution and the frequency of the monitor whether its values is under specification
Screen has a grainy picture	<ul style="list-style-type: none">■ It may show this condition till its stability, when you turned on monitor in 30 minute.■ Adjust Brightness/ Contrast on OSD



Regarding panel display

- Non-active pixels. The LCD consists of millions of pixels. Occasionally, a few non-active pixels may appear on the screen as a fixed point of blue, green or red. Please note that this does not affect the performance of your product.
- Don't press upon the panel strike or scratch the surface with your hands or sharp items such as a nail, or pen. As this may damage the panel permanently.

Instructions for safety

! Warning

- Don't insert metal objects such as coins, hair pins or flammable items such as paper or matches into the monitor.
- In the event mishap, contact an authorized service center or manufacturer.
- If the unit is continuously operated under these conditions can cause a fire or electric shock.

! Caution

- Clean the LCD monitor with a soft material such as cotton cloth only after removing the monitor power cord. This reduces the risk of fire or electric shock.
- Do not use materials such as wax, benzol, acid or alkaloid, etc., when cleaning the LCD monitor. Damage of the Housing and Panel may be caused.

	SW-1500N	SW-1700N	SW-1900N
Viewing size	15.0"	17.0"	19.0"
Module Type	Active Matrix TFT-LCD	Active Matrix TFT-LCD	Active Matrix TFT-LCD
Dot pitch	0.297 mm × 0.297mm	0.264 mm × 0.264 mm	0.294mm × 0.294mm
Viewing Angle	U/D:45/55, R/L:65/65	U/D:60/60, R/L:70/70	U/D:88/88, R/L:88/88
Contrast Ratio	400:1	450:1	400:1
Luminance (cd/m ²)	250 cd/m ² (Typ.)	250 cd/m ² (Typ.)	250 cd/m ² (Typ.)
Resolution(MAX)	1024 × 768 @75Hz	1280 × 1204 @75Hz	1280 × 1204 @75Hz
Display Color	16M colors	16M colors	16,777,216 colors
Scanning Freq. : H	31KHz ~ 60KHZ	31KHz ~ 80KHZ	31KHz ~ 80KHZ
Scanning Freq. : V	56Hz ~ 75Hz	56Hz ~ 75Hz	56Hz ~ 75Hz
Plug & Play	VESA DDC1/2B	VESA DDC1/2B	VESA DDC1/2B
User control	Brightness, Contrast, Autosetup, Language Clock, H/V Position Halftone OSD, Phase Auto color Control	Brightness, Contrast, Autosetup, Language Clock, H/V Position Halftone OSD, Phase Auto color Control	Brightness, Contrast, Autosetup, Language Clock, H/V Position Halftone OSD, Phase Auto color Control
Surface treatment	Hard Coating(3H) Anti-Glare Treatment	Hard Coating(3H) Anti-Glare Treatment	Hard Coating(3H) Anti-Glare Treatment
Power Saving	VESA DPMS standard	VESA DPMS standard	VESA DPMS standard
Power Source	100V~240V, DC12V 3.5A	100V~240V, DC12V 4.3A	100V~240V, DC12V 4.3A
Input Signal	Analog R.G.B	Analog R.G.B	Analog R.G.B
Input connector	15pin D-sub	15pin D-sub	15pin D-sub
Dimension (mm)			
Weight (Kg)			

※The specification is subject to be changed without notice.

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

****CAUTION:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

