



XP17W
LCD Monitor

USER'S GUIDE

www.planar.com

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Chapter 1 Introduction

Thanks for your purchase of this product. With this product, you can use your computer monitor to watch TV/CATV, VCR, LD, and DVD or play video game. Without turning on your computer, the system set up is very easy and there is no additional requirement for hardware or software. You don't need to learn a complicated set up procedure and you can enjoy your product with just plug and play.

1.1 Important Safety Precautions

Electricity is used to perform many useful functions, but it can also cause personal injuries and property damage if improperly handled. This product has been engineered and manufactured with the highest priority on safety. However, improper use can result in electric shock and/or fire. In order to prevent potential danger, please observe the following instructions when installing, operating and cleaning the product. To ensure your safety and prolong the service life of your LCD color TV product, please read the following precautions carefully before using the product.

- Read instructions—All operating instructions must be read and understood before the product is operated.
- Keep this manual in a safe place—These safety and operating instructions must be kept in a safe place for future reference.
- Observe warnings—All warnings on the product and in the instructions must be observed closely.
- Follow instructions—All operating instructions must be followed.
- Attachments—Do not use attachments not recommended by the manufacturer. Use of inadequate attachments can result in accidents.
- Power source—This product must operate on a power source specified on the specification label. If you are not sure of the type of power supply used in your home, consult your dealer or local power company. For units designed to operate on batteries or another power source, refer to the operating instructions.

- Power cord protection—The power cords must be routed properly to prevent people from stepping on them or objects from resting on them. Check the cords at the plugs and product.
- If the AC adapter is misplaced or needs to be replaced, obtain the same type of adapter.
- Overloading—Do not overload AC outlets or extension cords. Overloading can cause fire or electric shock.
- Entering of objects and liquids—Never insert an object into the product through vents or openings. High voltage flows in the product, and inserting an object can cause electric shock and/or short internal parts. For the same reason, do not spill water or liquid on the product.
- Servicing—Do not attempt to service the product yourself. Removing covers can expose you to high voltage and other dangerous conditions. Request a qualified service person to perform servicing.
- Repair—If any of the following conditions occurs, unplug the power cord from the AC outlet, and request a qualified service person to perform repairs.
 - a. When the power cord or plug is damaged.
 - b. When a liquid was spilled on the product or when objects have fallen into the product.
 - c. When the product has been exposed to rain or water.
 - d. When the product does not operate properly as described in the operating instructions. Do not touch the controls other than those described in the operating instructions. Improper adjustment of controls not described in the instructions can cause damage, which often requires extensive adjustment work by a qualified technician.
 - e. When the product has been dropped or damaged.
 - f. When the product displays an abnormal condition. Any noticeable abnormality in the product indicates that the product needs servicing.
- Replacement parts—In case the product needs replacement parts, make sure that the service person uses replacement parts specified by the manufacturer, or those with the same characteristics and performance as the original parts. Use of unauthorized parts can result in fire, electric shock and/or other danger.
- Safety checks—Upon completion of service or repair work, request the service technician to perform safety checks to ensure that the product is in proper operating condition.
- Polarization—This AC adapter may be equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- For use only with AC adapter, Li-shin LSE9901B1260 or Linearity LAD6019AB5.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A grounding type plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the blades and a third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.



12.  Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. "WARNING"-To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
16. Do not expose this appliance to dripping or splashing. Do not place objects filled with liquids on this appliance.
17. The Shock Hazard Marking and Associated Graphical Symbol is provided on the bottom panel of unit.
18. "CAUTION"-These service instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so

1.1.1 FCC Statement Warning

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 instruction, 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 the 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.

Warning

Use only shielded signal cables to connect I/O devices to this equipment. You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

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

1.1.2 Canadian DOC Notice



This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Lamp Disposal



LAMP(S) INSIDE THIS PRODUCT CONTAIN MERCURY AND MUST BE RECYCLED OR DISPOSED OF ACCORDING TO LOCAL, STATE OR FEDERAL LAWS. FOR MORE INFORMATION, CONTACT THE ELECTRONIC INDUSTRIES ALLIANCE AT WWW.EIAE.ORG. FOR LAMP SPECIFIC DISPOSAL INFORMATION CHECK WWW.LAMPRECYCLE.ORG.

1.2 Important Notices

Please use the product under a normal environment

1. Try to avoid the following circumstances.

- * Heat or direct sunlight places
- * Location with huge magnetic field
- * Unstable or vibrational places
- * Exposure to rain or moisture places

2. For the unauthorized person, please don't serve this product: otherwise the damage caused by unauthorized servicing is not covered by warranty.

3. Unplug this product from AC outlet and remove batteries from IR control, when this product is left unused for a long time.

1.3 Product Functions

- With the advanced video processing technology, the TV composite VIDEO, S-VIDEO signal can be displayed on PC monitor.
- Double scan conversion (15.75 KHz to 31.5 KHz).
- With built-in audio loop, the audio signal coming from PC can pass through to PC speakers at any circumstance.
- Full screen, true color display.
- TV systems: PAL system.
- Built-in TV tuner for receiving terrestrial or cable TV.
- Easy operation - With one button to switch signals coming from composite VIDEO, S-VIDEO, COMPONENT VIDEO, CABLE/TV or PC.
- Automatic channel scan to detect the program channels.
- On screen display operation with IR remote controller.
- NICAM supported for PAL system.

1.4 Package Contents

As you unpack the product, please make sure the following items were included. If any of these items are missing, call your local agencies.

- | | | | | | |
|----------------|----|-----------------|----|--------------|----|
| ▪ Main body | x1 | ▪ Audio cable | x1 | ▪ IR control | x1 |
| ▪ Power supply | x1 | ▪ User manual | x1 | ▪ Power cord | x1 |
| ▪ VGA cable | x1 | ▪ AAA batteries | x2 | | |

1.5 Pull down the base

When you open the box to take the product out then pull down the base first (See figure 1-1)

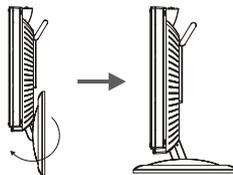


Figure 1-1

1.6 Set up to LCD-TV

1. To remove the tuner cover. (See figure 1-2)

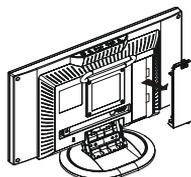


Figure 1-2

2. To connect the TV tuner. (See figure 1-3)

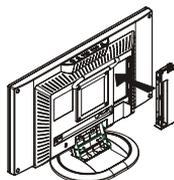


Figure 1-3

3. To tear off the label. (See figure 1-4)

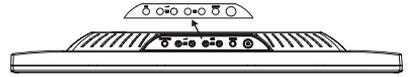


Figure 1-4

1.7 Viewing Angle Adjustment

This product is designed to allow users to have a comfortable viewing angle. The viewing angle can be adjusted from -5° to $+25^{\circ}$. (See Figure 1-5).

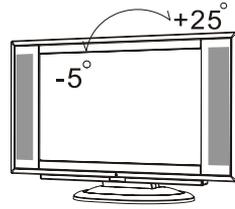


Figure 1-5

When you want to close the base and body to 90° , you need to release a button from 25° . (See fig. 1-6)

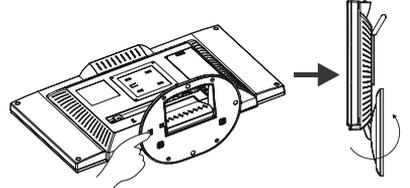


Figure 1-6

Warning: Do not force the LCD Monitor over its maximum viewing angle settings as stated above. Attempting this will result in damaging the Monitor and Monitor stand.

1.8 Detaching main body from Its Stand

1. Remove the rear cover from neck ① (See Figure 1-7)
2. Unscrew screws of the hinge bracket ②
3. Remove the stand from main body ③

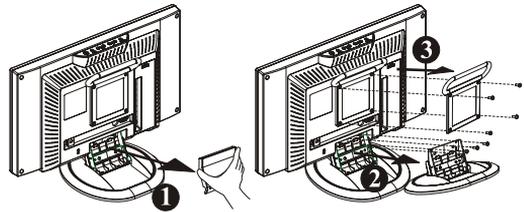


Figure 1-7

1.9 Interface for Arm Applications

Before installing to mounting device, please refer to Fig.1-8

The rear of this LCD display has four integrated 4 mm, 0.7 pitches threaded nuts, as well as four 5 mm access holes in the plastic covering as illustrated in Figure 1-8. These specifications meet the VESA Flat Panel Monitor Physical Mounting Interface Standard (paragraphs 2.1 and 2.1.3, version 1, dated 13 November 1997).

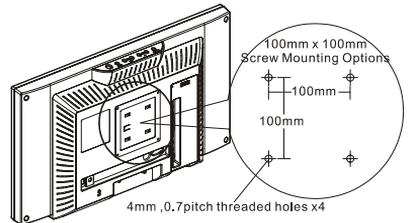


Figure 1-8

Note :Please using $\varnothing 4\text{mm} \times 8\text{mm}$ (L) screw for this application.

Chapter 2 Installation

2.1 Product Outward

2.1.1 Front view of main body

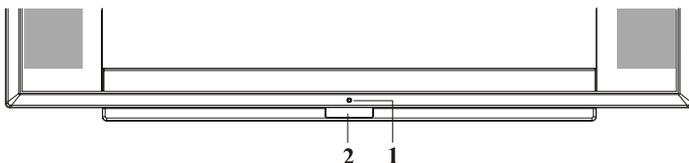


Figure 2-1

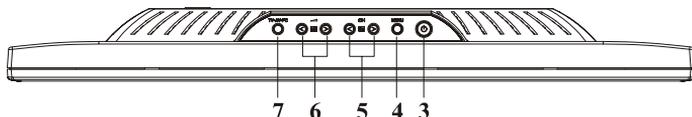


Figure 2-2

1		Indicator for Power	LED lights Green color --- Power is ON. LED lights Orange --- Monitor is in "Power Saving Mode". LED is off --- Power is OFF.
2		IR receiver	IR receiver.
3		Power	Turn on or off the main body.
4		Menu	Open the OSD menu.
5		Channel	Select the next lower channel / higher channel (TV/AV mode) ; OSD function for selecting (PC mode).
6		Volume	Lower / Raise the sound volume (TV/AV mode) ; OSD function for adjusting (PC mode).
7		Source	Selection CABLE/TV, AV2/Y PB PR, AV1/AV, AV1/SV or PC and off OSD menu.

2.1.2 Rear view of main body

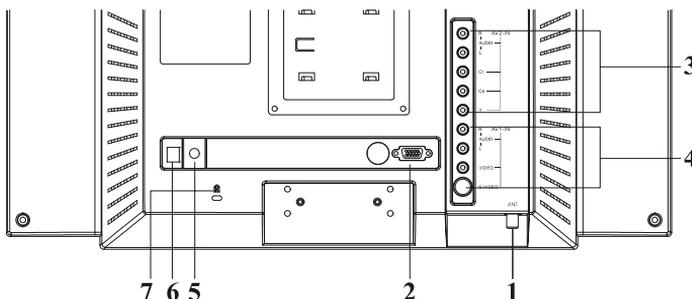


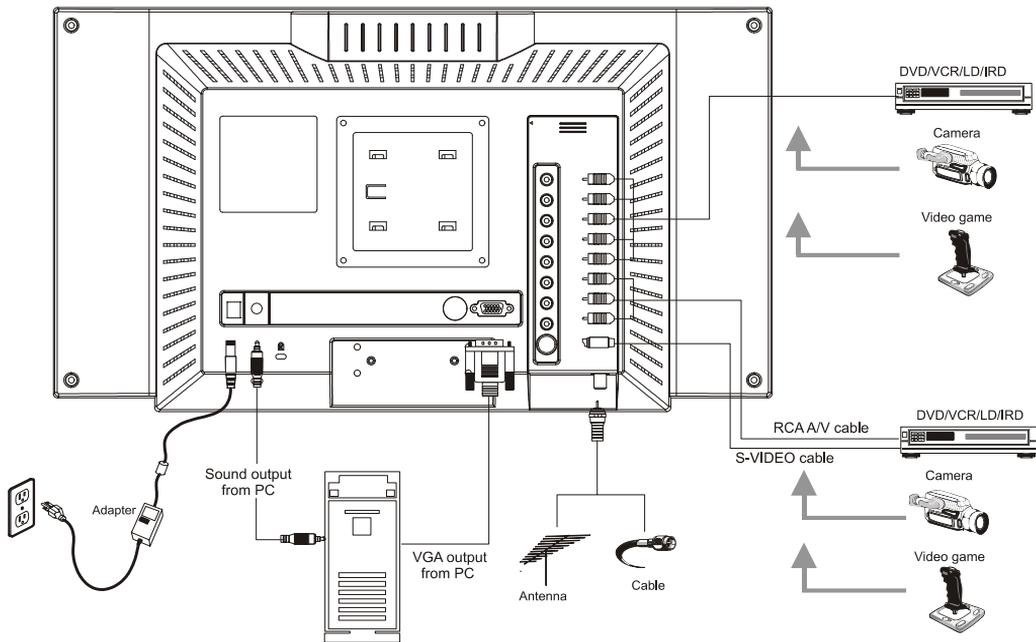
Figure 2-3

1	RF in	Please connect to antenna or cable TV signal.
2	VGA input	Please use the 15-pin VGA cable in the package contents.
3	AV2-in	For component Video input and audio.
4	AV1-in	For composite video or S-video input and audio.
5	Phone in	Please connect the audio from sound card to PHONE IN.
6	DC in	Please connect to your 12V power supply.
7	Kensington Lock hole	It can be locked with Kensington lock.

2.2 System Installation:

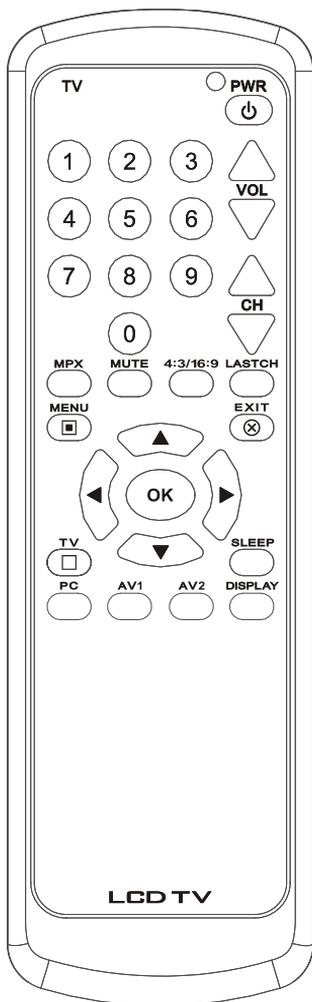
Please refer to the example closest to your configuration

Please turn off the power of all devices before connection. For audio connection, please use RCA audio (L+R) connector. For video connection, please choose either RCA video connector or s-video connector. Moreover, for connection to monitor alone please omit those connections associated with PC.



Chapter 3 Operation Instruction

3.1 IR Control



POWER	4:3 / 16:9
Switch between power-on and power-off.	Select the screen scale.
MUTE	OK
Turn the sound on/off.	Enter.
MPX	
Select the sound output	Adjust the selected item on menu or adjust the volume.
VOLUME	
Adjust the volume.	* Press to select desired item on the menu
	* Press to select desired page on the text mode
CHANNEL	DISPLAY
Select channels up or down.	Show the information on screen.
TV/AV1/AV2/PC	0~9 Number Keys
Select input sources of TV, AV1.AV1/SV, AV2/AV.AV2/S-V and PC.	Used to select cable TV or Terrestrial programs.
MENU	SLEEP
Turn on the OSD menu.	Select timer to turn power off. The default timer is 10, 20, 30, 40, 50, 60, and 90 minutes (Only enable in TV function).
EXIT	LAST CH
Quit the OSD page menu	Turn back the last select channel.

3.2 Advanced Setting

3.2.1 TV settings

The OSD shown below displays when you press "MENU" (on main body) or "  " (on remote control) button. You can see four options shown as below.

PICTURE: CONTRAST, BRIGHTNESS, COLOR, SHARPNESS, HUE .

AUDIO: VOLUME, MUTE, BALANCE, TREBLE, BASS.

RESET: LANGUAGE, RECALL.

SETUP: MTS, AIR/CATV, CHANNEL, CH. Memory, AUTO SEARCH.

CLOSED CAPTION: CLOSED CAPTION MODE

PROTECTION: LOCK TV RATING MPAA RATING CHANGE PIN

MAIN MENU



PICTURE

Press "MENU" (on main body)select "↑, ↓" (on remote control) button to PICTURE then press OK to enter.

AUDIO

Press "MENU" (on main body)select "↑, ↓" (on remote control) button to AUDIO then press OK to enter.

RESET

Press "MENU" (on main body)select "↑, ↓" (on remote control) button to RESET then press OK to enter.

SETUP

Press "MENU" (on main body)select "↑, ↓" (on remote control) button to SETUP then press OK to enter.

CLOSED CAPTION

Press "MENU" (on main body)select "↑, ↓" (on remote control) button to CLOSEDCAPTION then press OK to enter.

PROTECTION

Press "MENU" (on main body)select "↑, ↓" (on remote control) button to PROTECTION then press OK to enter.

	<h3 style="text-align: center;">PICTURE</h3> <p>CONTRAST</p> <p>Press "  " (on main body) or "←, →" (on remote control) button to increase or decrease the screen display.</p> <p>BRIGHTNESS</p> <p>Press "  " (on main body) or "←, →" (on remote control) button to increase or decrease the screen brightness.</p> <p>COLOR</p> <p>Press "  " (on main body) or "←, →" (on remote control) button to adjust the contrast for soft or saturation.</p> <p>SHARPNESS</p> <p>Press "  " (on main body) or "←, →" (on remote control) button to adjust the contrast for soft or sharpness.</p> <p>HUE</p> <p>Press "  " (on main body) or "←, →" (on remote control) button to adjust for NTSC system color change if PAL system it is no function.</p>
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	<h3 style="text-align: center;">AUDIO</h3> <p>VOLUME</p> <p>Press "  " (on main body) or "←, →" (on remote control) button to adjust lower or raise the volume.</p> <p>BALANCE</p> <p>Adjust the speaker balance on Left/Right by pressing "  " (on main body) or "←, →" (on remote control) button.</p> <p>MUTE</p> <p>Select the speaker mute on /off by pressing "  " (on main body) or "←, →" (on remote control) button.</p> <p>TREBLE</p> <p>Press "  " (on main body) or "←, →" (on remote control) button to adjust lower or raise the treble</p> <p>BASS</p> <p>Press "  " (on main body) or "←, →" (on remote control) button to adjust lower or raise the bass</p>
---	--

RESET**LANGUAGE**

Press "  " (on main body) or "←, →" (on remote control) button to select the LANGUAGE.

RECALL

Press "  " (on main body) or "←, →" (on remote control) button to RECALL, the recall function will return all adjusted parameters to factory preset values.

SETUP**MTS**

Press "  " (on main body) or "←, →" (on remote control) button to select the AUDIO SYSTEM.

AIR/CATV

Press "  " (on main body) or "←, →" (on remote control) button to select the AIR or CATV SYSTEM.

CHANNEL

Press "  " (on main body) or "←, →" (on remote control) button to select the CHANNEL NUMBER.

CH. Memory

Press "  " (on main body) or "←, →" (on remote control) button to select the YES or NO.

AUTO SEARCH

Press OK to start / stop AUTO SEARCH channel .

CLOSED CAPTION**CLOSED CAPTION**

1. Press "  " (on main body) or "←, →" (on remote control) button to select the CLOSED CAPTION NO or YES.

2. Press "  " (on main body) or "←, →" (on remote control) button to select the MODE for CC SYSTEM.

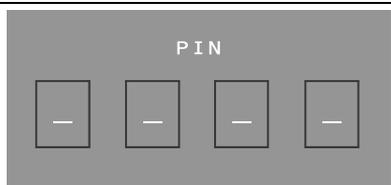
PROTECTION**PROTECTION**

1. Press "  " (on main body) or "←, →" (on remote control) button to select the lock and TV rating and MPAA rating for OFF or ON.

2. Press remote control select the CHANGE PIN for modify four PIN number.

PIN

Press remote control four number key 0000.

**3.2.2 AV settings**

The OSD shown below displays when you press "MENU" (on main body) or "  " (on remote control) button. You can see four options shown as below.

PICTURE: CONTRAST, BRIGHTNESS, COLOR, SATURATION, HUE.

AUDIO: VOLUME, BALANCE, MUTE, TREBLE and BASS.

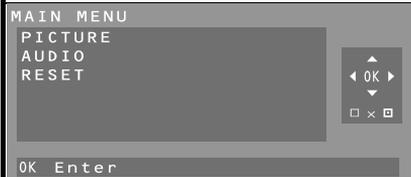
RESET: LANGUAGE, RECALL.

MAIN MENU**PICTURE**

Press "MENU" (on main body) select "↑, ↓" (on remote control) button to PICTURE then press OK to enter.

AUDIO

Press "MENU" (on main body) select "↑, ↓" (on remote control) button to AUDIO then press OK to enter.



RESET

Press "MENU" (on main body) select "↑, ↓" (on remote control) button to RESET then press OK to enter.

PICTURE**CONTRAST**

Press "  " (on main body) or "←, →" (on remote control) button to increase or decrease the screen display.

BRIGHTNESS

Press "  " (on main body) or "←, →" (on remote control) button to increase or decrease the screen brightness.

COLOR

Press "  " (on main body) or "←, →" (on remote control) button to adjust the contrast for soft or saturation.

SHARPNESS

Press "  " (on main body) or "←, →" (on remote control) button to adjust the contrast for soft or sharpness.

HUE

Press "  " (on main body) or "←, →" (on remote control) button to adjust the contrast for soft or hue.

**AUDIO****VOLUME**

Press "  " (on main body) or "←, →" (on remote control) button to adjust lower or raise the volume.

BALANCE

Adjust the speaker balance on Left/Right by pressing "  " (on main body) or "←, →" (on remote control) button.

MUTE

Adjust the speaker mute on /off by pressing "  " (on main body) or "←, →" (on remote control) button.

TREBLE

Press "  " (on main body) or "←, →" (on remote control) button to adjust lower or raise the treble



BASS

Press "  " (on main body) or "←, →" (on remote control) button to adjust lower or raise the bass

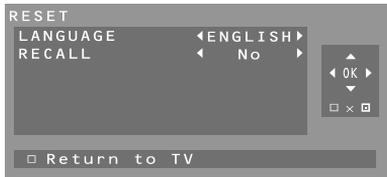
RESET

LANGUAGE

Press "  " (on main body) or "←, →" (on remote control) button to select the LANGUAGE.

RECALL

Press "  " (on main body) or "←, →" (on remote control) button to RECALL, the recall function will return all adjusted parameters to factory preset values.



3.2.3 PC settings

The OSD shown below displays when you press "MENU"(on main body and remote control).



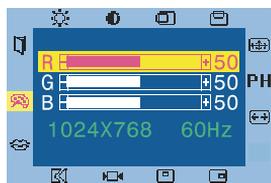
To adjust the picture brightness.

1. Press "  " (on main body) or "↑, ↓" (on remote control) button to select item.
2. Then press "  " (on main body) or "←, →" (on remote control) button to adjust brightness.



To adjust the color temperature.

1. Press "  " (on main body) or "↑, ↓" (on remote control) button to select item.
2. When you choose the user mode in color temperature, then press "MENU" (on main body and remote control) to enter second page to adjust the **R, G, B**.
3. After finishing adjustment to press "ENTER" (on main body and remote control) return to main menu.



3.2.4 PC OSD function description

Icon	Function	Function Description
	BRIGHTNESS	This function increases or decreases the brightness of the image.
	CONTRAST	This function increases or decreases the difference between the dark and light color.
	H-POSITION	This function shifts the entire display image left or right.
	V-POSITION	This function shifts the entire display image up or down.
	AUTO ADJUSTMENT	This function will adjust the display size automatically to fit full screen.
PH	PHASE	This function is available to adjust the focus and clarity of the display.
	CLOCK	This function carries a frequency-tracking feature that offers the user to have better stability and clarity. Increasing Clock value can be up to +50 scales. The number of decreasing Clock (minus) is depending on the input timing.
	OSD H-POSITION	This function moves the OSD menu window left or right.
	OSD V-POSITION	This function moves the OSD menu window up or down.
	GRAPH TEXT	This function is to choose a display that allows maximum graphics text quality. The resolution selection can either be 640 x 400 or 720 x 400. Please refer to Chapter 3 “ Standard Timing” Table for of different timing modes.
	RECALL	The recall function will return all adjusted parameters to factory preset values.
	LANGUAGE	Three OSD languages options are available: English, Japanese, Traditional Chinese..
	TEMPERATURE	To select a different color temperature. Please see the diagram below for function and description.
	EXIT	Exit the OSD menu function.

Icon	Description
9300	Set CIE coordinated at 9300°K color temperature.
6500	Set CIE coordinated at 6500°K color temperature.
USER	There are 3 colors (Red, Green, Blue) for user to adjust from OSD menu.
R	Adjust Red color on screen.
G	Adjust Green color on screen.
B	Adjust Blue color on screen.

Chapter 4 Technical Information

4.1 Specifications

LCD Panel

Size	17" (43 cm)
Display Type	Active matrix color TFT LCD
Resolution	1280 x 768
Display Dot	1280 x (RGB) x 768
Display Area (mm)	369.6 x 221.7 (H x V)
Display Color	16.2M
Brightness	450 cd/m ² (typical)
Contrast Ratio	600:1 (typical)
Response Time	Ta=25°C T on=15ms T off=10ms
Lamp Voltage	630 Vrms (typical)
Lamp Current	10.5 mA rms. (typical)
Viewing Angle	Vertical: -85° ~ +85° Horizontal: -85° ~ +85°

Display colors

16.2M with FRC or Dithering

Video

Input Signal	Analog RGB 0.7Vp-p
Input Impedance	75 Ohm ± 2%
Polarity	Positive, Negative
Amplitude	0 - 0.7 ± 0.05 Vp
Multi-mode Supported	Horizontal Frequency: 30 ~ 60 KHz Vertical Frequency: 50 ~ 75 Hz

Speaker

2.5W, 4.5 OHM

Control

Power switch (hard and soft types)	On/Off switch with LED indicator
------------------------------------	----------------------------------

OSD

Brightness	Digital
Contrast	Digital
Horizontal Position	Digital
Vertical Position	Digital
Phase	Digital
Clock	Digital
Display Mode Setup	Use EEPROM to save settings in memory
OSD Format	20 characters x 9 rows

Power Management

Mode	Power Consumption*	AC Input	LED Color
On	75W maximum	240 VAC	Green
Off	5W maximum	240 VAC	Orange
Soft switch off	5W maximum	240 VAC	Dark
Disconnected	5W maximum	240 VAC	Orange: Standby, Suspend, Off Dark: DC Power off

* Meeting VESA DPMS requirements measured from AC Input end of AC power cord.

Sync Input

Signal

Separate TTL compatible horizontal and vertical synchronization

Polarity

Positive and negative

Plug & Play

Supports VESA DDC1 and DDC2B functions

External Connection

Power Input (AC input)

AC socket

Video Cable

1.5M with 15-pin D-sub connector

Audio Cable

1.5M with Stereo Jack

Environment**Operating Condition:**

Temperature 5°C to 35°C/41°F to 95°F

Relative Humidity 20% to 85%

Storage Condition:

Temperature -20°C to 60° C/-4°F to140° F

Relative Humidity 5% to 85%

Power Supply (AC Input)

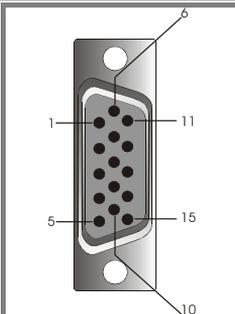
Input Voltage

Single phase, 100 ~ 240VAC, 50 / 60 Hz

Input Current

1.2 A maximum

Pin Assignment

	Signal		Signal	
	<i>PIN</i>	<i>Description</i>	<i>PIN</i>	<i>Description</i>
1	Red	9	+5V	
2	Green	10	Hot Plug Detect	
3	Blue	11	NC	
4	NC	12	SDA	
5	Digital GND	13	H. Sync.	
6	Red Rtn	14	V. Sync.	
7	Green Rtn	15	SCL	
8	Blue Rtn			

4.2 Standard Timing Table

If the selected timing is NOT included in table below, this LCD monitor will use the most suitable available timing.

Mode	Resolution	Total	Nominal Frequency (KHz)	Sync Polarity	Nominal Freq. (Hz)	Sync Polarity	Nominal Pixel Clock (MHz)
			Horizontal		Vertical		
VESA MODES							
VGA	640x480@60Hz	800 x 525	31.469	N	59.940	N	25.175
	640x480@72Hz	832 x 520	37.861	N	72.809	N	31.500
	640x480@75Hz	840 x 500	37.500	N	75.00	N	31.500
SVGA	800x600@56Hz	1024 x 625	35.156	N/P	56.250	N/P	36.000
	800x600@60Hz	1056 x 628	37.879	P	60.317	P	40.000
	800x600@72Hz	1040 x 666	48.077	P	72.188	P	50.000
	800x600@75Hz	1056x625	46.875	P	75.000	P	49.500
XGA	1024x768@60Hz	1344x806	48.363	N	60.004	N	65.000
	1024x768@70Hz	1328x806	56.476	N	70.069	N	75.000
	1024x768@75Hz	1312x800	60.023	P	75.029	P	78.750
	1280x768@75Hz	1696x805	60.289	N	74.893	P	102.250
IBM MODES							
DOS*	720x400@70Hz	900 x 449	31.469	N	70.087	P	28.322
DOS	640x350@70Hz	800 x 449	31.469	P	70.087	N	25.175

Note: When the input display mode is not 1280 x 768, the image is smoothly expanded to 1280 x 768 dots with the scaling engine. After expansion from 650x350, 640x400, 640x480, 720x400, 832x624, 800x600, and 1024x768 resolution, the text may look not so sharp, and the Graphics may look not so proportional.

Chapter 5 Other Information

5.1 Specifications

POWER IN	12VDC 5A
VIDEO INPUT	Composite /Component video RCA connector
S-VIDEO INPUT	S-Video 4-pin mini DIN
AUDIO INPUT	Stereo L+R RCA connectors
PHONE IN	Phone Jack 3.5
RF IN	IEC-Female connector for PAL System
VGA INPUT	D-Sub 15 pin connector
Power Consumption	75W maximum
Operating Temperature	5 ~ 35°C
Operating Humidity	5% ~ 80%
IR Control	35 Buttons (AAA batteries x2)
Dimensions	518 (W) x 333 (H) x 198 (D) mm
Net Weight	5 ± 0.3 kg
Gross Weight	6.8 ± 0.3 kg

Chapter 6 Troubleshooting

This LCD Monitor has pre-adjusted using factory standard VGA timings. Due to the output timing differences among various VGA cards in the market, users may initially experience an unstable or unclear display whenever a new display mode or new VGA card is selected.

Attention

This LCD Monitor Supports Multiple VGA Modes.

Refer to the Standard Timing Table for a listing of modes supported by this LCD Monitor.

PROBLEM Picture is unclear and unstable

The picture is unclear and unstable, please perform the following steps :

1. Enter PC to “Shut Down Windows” status while you’re in MS-Windows environment.
2. Check the screen to see if there’s any black vertical stripes appear. If there are, take advantage of the “Clock” function in OSD menu and adjust (by increment or decrement numbers) until those bars disappear.
3. Move to “Phase” function in OSD menu again and adjust the monitor screen to its most clear display.
4. Click “No” on “Shut Down Windows” and back to the normal PC operating environment.

PROBLEM There is no picture on LCD Monitor

If there’s no picture on the LCD Monitor, please perform the following steps:

1. Make sure the power indicator on the LCD Monitor is ON, all connections are secured, and the system is running on the correct timing. Refer to Chapter 3 for information on timing.
2. Turn off the LCD Monitor and then turn it back on again. If there is still no picture, press the Adjustment Control button several times.
3. If step 2 doesn’t work, connect your PC system to another external CRT. If your PC system Functions properly with a CRT Monitor but it does not function with the LCD Monitor, the output timing of the VGA card may be out of the LCD’s synchronous range. Please change to an alternative mode listed in the Standard Timing Table or replace the VGA card, and then repeat steps 1 and 2.

PROBLEM There is no picture on LCD Monitor

If you have chosen an output timing that is outside of the LCD Monitor’s synchronous range (Horizontal: 30 ~ 60 KHz and Vertical: 50 ~ 75 Hz), the OSD will display a “**Over Range**” message. Choose a mode that is supported by your LCD Monitor.

PROBLEM The IR control can't control product

Make sure if batteries installed are not weak batteries

If you still have difficulties that you can't resolve using the tips described above, please unplug and plug in the AC cord to reset your product. Otherwise, please call your local agency for servicing.

Also, if the signal cable is not connected to LCD monitor at all or properly, the monitor screen will display a message “**No Signal**”.

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