

**USER'S
MANUAL**

**MODEL: XLCD15-1
XLCD17-1
XLCD19-1**

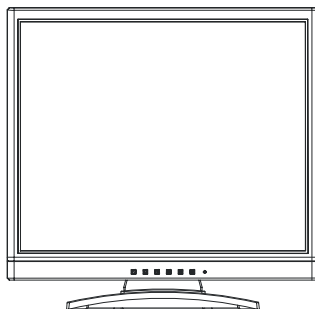


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Introduction

This chapter provides basic information about your LCD MONITOR.

This chapter refers to the following:

- Features
- Warnings and safeguards
- Package contents
- Controls and connections

Features

- Bright, flick-free image
- Automatic detection and conversion of film content for correct display with minimal motion artefacts
- Accurate colour processing
- Multi-Scan support
- Built-in internal amplifier and speakers
- 1280 x 1024 SVGA support for computer input

Important safeguards

Risk of electric shock – Do not open

To reduce the risk of electric shock, do not remove the back cover. There are no user-serviceable parts inside.

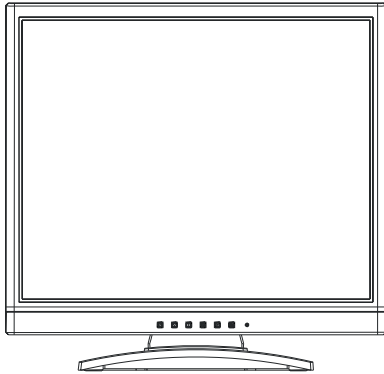
Removing the back cover voids the warranty.

Have your LCD MONITOR repaired by qualified service personnel only.

Warnings and precautions

- Do not place your hands, face or objects close to the ventilation openings of your LCD MONITOR. The top of your LCD MONITOR gets very hot from exhaust air that is released through the ventilation openings. Burns or personal injuries may occur if you are too close to the LCD MONITOR. Damage may occur if you place any object near the top of your LCD MONITOR.
- Disconnect all cables before moving your LCD MONITOR. Moving your LCD MONITOR with its cables attached may damage the cables and cause fire or electric shock danger.
- Do not expose your LCD MONITOR to rain or moisture.
- Keep your LCD MONITOR away from excessive dust, high temperatures, moisture or direct sunlight.
- Use your LCD MONITOR in a well-ventilated area and do not cover the ventilation openings.
- Do not modify your LCD MONITOR or use an unshielded power cord or video input source cable, or you may experience excessive interference.
- Disconnect your LCD MONITOR and unplug the power cord when the AV is not used for a long period.
- If the picture displayed is in any way abnormal, turn off your LCD MONITOR, then disconnect it from the electrical outlet. Make sure that your video input source cable is connected correctly, and then reconnect your LCD MONITOR to the electrical outlet.
- Disconnect your LCD MONITOR from the electrical outlet before cleaning or performing maintenance. Do not use liquid or aerosol cleaners. Use only a slightly damp cloth for cleaning.
- Do not place your LCD MONITOR on an unstable cart, stand or table. Your LCD MONITOR may fall, causing serious damage.

A. Function Keys Instruction



MANUAL Menu: Activate OSD menu

— Left: Decrease setting the menu bar, hot key to adjust volume down

VOLUME VOLUME FUNCTION

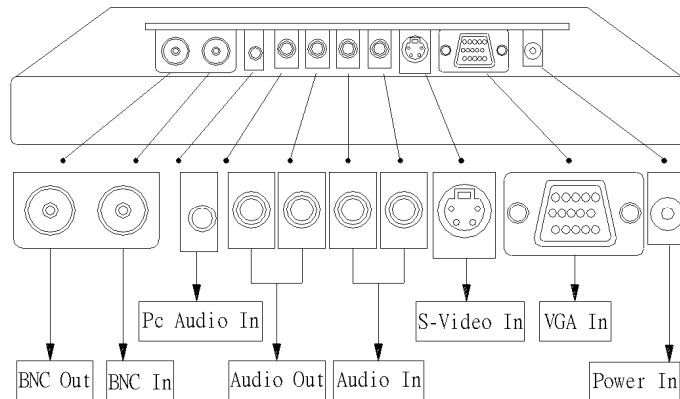
• Right: Increase setting the menu bar, hot key to adjust volume up

SOURCE Source: Change input source



Source: Change input source
Power: Turn on or off the main board

B. I/O Connection:



BNC Input / Out: 75 Ohm Auto termination.

PC Audio Input: (fro PC use only) 3.5mm Jack

Audio Out: Stereo left (white) and right (red) Loop through, RCA Phono plug

Audio In: Stereo left (white) and right (red), RCA Phono plug

S-Video In: 4-Pin Mini-Din

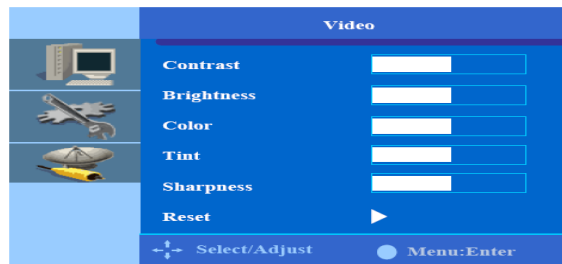
VGA In: 15-pin D connector

Power In: 2.5mm 12V DC Regulated. 2.66A / 29W

C. OSD (On Screen Display) menu enables user to manipulate the image and settings
OSD Main menu consists of source:

OSD Menu

Video OSD Menu



Feature Control OSD Menu



PC (VGA) OSD Menu



D. Applicable Timing

VGA Timing

There are totally 36 timing modes that can be saved in memory by FIFO detecting architecture.

VGA Support Timing

Mode	No.	Resolution	H Freq. (kHz)	V Freq. (Hz)	Pixel clock (MHz)	15"	17"	19"
						1024*768 75Hz	1280*1024 75Hz	1280*1024 75Hz
MAC	101	832x624@74.5	49.722	74.546	57.280	✓	✓	✓
	102	640x480@67	35.000	66.667	30.240	✓	✓	✓
VGA	103	720x400@70	31.469	70.08	28.322	✓	✓	✓
	104	640x480@60	31.469	59.940	25.175	✓	✓	✓
	105	640x480@72	37.861	72.809	31.500	✓	✓	✓
	106	640x480@75	37.500	75.000	31.500	✓	✓	✓
SVGA	108	800x600@60	37.879	60.317	40.000	✓	✓	✓
	109	800x600@72	48.077	72.188	50.000	✓	✓	✓
	110	800x600@75	46.875	75.000	49.500	✓	✓	✓

	111	1024x768@60	48.363	60.004	65.000	✓	✓	✓
XGA	112	1024x768@70	56.576	70.069	75.000	✓	✓	✓
	113	1024x768@75	60.023	75.029	78.750	✓	✓	✓
	114	1280x1024@60	63.980	60.000	108.000		✓	✓
SXGA	115	1280x1024@75	79.976	75.025	135.000		✓	✓
	116	1280x768@60	44.776	59.870	79.500		✓	✓
WXGA	117	1280x768@75	60.289	74.893	102.250		✓	✓
	118	1280x768@60(R)	47.396	59.995	68.250			
	119	1280x960@60	60.000	60.000	108.000			
	120	1280x960@75	59.699	59.939	130.000			
	121	1280x720@60	44.955	59.940	74.176			
	122	1360x768@60	47.712	60.015	85.500			
	123	1440x900@60(R)	55.469	59.902	88.750			
	124	1440x900@60	55.935	59.888	106.500			
	125	1440x900@75	70.635	74.984	136.750			

This A/D board supports the video timing listed above.

In some cases, TFT LCD manufacturers guarantee within specific pixel frequency (dot clock). Range based on the application range. As example, TFT LCD hardly displays the Image properly over 60Hz refresh rate. In addition, TFT LCD has the best performance at 60 Hz refresh rate. Therefore, it is highly recommended for customers to use this product at 60 Hz refresh rate.

Compatibility

There are lots of VGA cards in the market place. In general, the video signal of various VGA cards compatible with VESA recommendations, but sometimes not. The TFT LCD controller boards are designed under the assumption that every video signal is standardized, therefore, some VGA cards has mismatch trouble.

To avoid this compatibility issue, our products are tested with popular VGA Cards. The compatibility test result will be updated in near future

PC RGB Input

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

Power Supply

Input Voltage	100~240VAC, 50/60Hz
Output Voltage	+12V DC, 3.33A (40W) / 4.16A (50W)
Power Management	On: 50W max. (Green LED) Off: 1W max. (Red LED)

Environment

Operation 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 to 140°F
	Relative Humidity	5% to 85%

Safety, Regulatory and Legal Information

US Regulatory compliance statements

Your LCD MONITOR 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. Your LCD MONITOR generates uses, can radiate radio frequency energy and if not installed and used in accordance with the instruction, may cause harmful interference to radio communication. However, there is no guarantee that interference with not occur in a particular installation. If your LCD MONITOR does cause harmful interference to radio or television reception, which can be determined by turning your LCD MONITOR off and on, the user is encouraged to try to correct the interference by one or more 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/AV technician for help.

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

FCC STATEMENT

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

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