

# PL2011 LCD Monitor

# **USER'S GUIDE**

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# Preface

This manual is designed to assist users in setting up and using the PL2011M LCD Monitor. Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information in this document is subject to change without notice. This document contains proprietary information protected by copyright. All rights are reserved. No part of this manual may be reproduced by any mechanical, electronic or other means, in any form, without prior written permission of the manufacturer.

### 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.

Any changes or modifications not expressly approved by the manufacturers may void the user's authority to operate this equipment.

#### 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 comliance could void your authority to operate the equipment.

#### Canadian DOC Notice



This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B repecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

## Important Safety Instructions

Please read the following instructions carefully. This manual should be retained for future use.

- 1. To clean LCD Monitor screen:
  - -- Power off LCD Monitor and unplug the AC Cord.
  - -- Spray a non-solvent cleaning solution onto a rag.
  - -- Gently clean the screen with dampened rag.
- 2. Do not place the LCD Monitor near a window. Exposing the monitor to rain water, moisture or sunlight can severely damage it.
- 3. Do not apply pressure to the LCD screen. Excess pressure may cause permanent damage to the display.
- 4. Do not remove the cover or attempt to service this unit by yourself. Servicing of any nature should be performed by an authorized technician.
- Store LCD Monitor in a room with a room temperature of -20° ~ 60°C (or -4° ~ 140°F). Storing the LCD Monitor outside this range could result in permanent damage.
- 6. If any of the following occurs, immediately unplug your monitor and call an authorized technician.
  - \* Monitor to PC signal cable is frayed or damaged.
  - \* Liquid spilled into LCD Monitor or the monitor has been exposed to rain.
  - \* LCD Monitor or the case is damaged.
- 7. A certified line is required to connect this device to a power outlet. For a nominal current up to 6A and a device weight above 3 kg, a line not lighter than H05VV-F, 3G, 0.75 mm<sup>2</sup> must be used.



Important Recycle Instruction:

LCD Lamp(s) inside this product contain mercury. This product may contain other electronic waste that can be hazardous if not disposed of properly. Recycle or dispose in accordance with local, state, or federal Laws. For more information, contact the Electronic Industries Alliance at <u>WWW.EIAE.ORG</u>. For lamp specific disposal information check <u>WWW.LAMPRECYCLE.ORG</u>.

# **Chapter 1 Installation**

# Unpacking

Before unpacking the LCD Monitor, prepare a suitable workspace for your Monitor and computer. You need a stable and clean surface near a wall power outlet. Make sure that LCD Monitor has enough space around it for sufficient airflow. Though the LCD Monitor uses very little power, some ventilation is needed to ensure that the Monitor does not become too hot.

After you unpack the LCD Monitor, make sure that the following items were included in the box:

- \* LCD Monitor
- \* Monitor-to-PC VGA Cable
- \* Monitor-to-PC DVI-D Cable
  - Planar Connections CD-ROM
- \* User's Manual\* Power Cord
- \* Power Cord
- \* Stereo Jack Audio Cable

If you find that any of these items is missing or appears damaged, contact your dealer immediately.

Reference Information						
For future reference, write the following information about your monitor in the space						
below. The serial number is on the back of the product or on the bottom of its stand.						
Monitor Information						
Product Name:						
Serial Number:						
Date of Purchase:						
<b>Reseller Information</b>						
Reseller:						
Telephone Number:						
Address:						

# Height Adjustment Stand

To unlock the height adjustment feature of the stand, locate the pin on the back of the stand column and turn the pin knob counter-clockwise. (See fig.1-1)

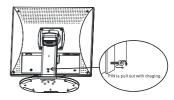


Figure 1-1

Figure 1-2

## Tilt, Swivel and Pivot Rotation

The LCD Monitor is designed to have a tilt range of  $-5^{\circ}$ to  $+25^{\circ}$ , a swivel range of  $-35^{\circ}$ to  $+35^{\circ}$ , and a 90° pivot rotation. (See fig. 1-2)

*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. The monitor stand base may forcefully extend and cause injury. Raise the monitor to its "Full Up" position before removing the monitor stand.

## Connecting the Display to your Computer

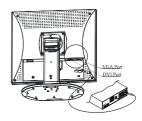
- 1. Power off your computer.
- Connect one end of the signal cable to the LCD Monitor's VGA port or DVI port.(See Fig 1-5)
- Connect the other end of the signal cable to the VGA port or DVI port on your PC.
- 4. Make sure connections are secure.

# Connecting the AC Power

- 1. Connect the power cord to the AC adapter. (See Fig. 1-6)
- Connect the AC adapter's DC output connector to the DC Power Jack of the monitor.
- 3. Connect the power cord to an AC power source.

# **Connecting the Audio Cable**

- Connect the audio cable to the "LINE OUT " jack on your PC's audio card or to the front panel's "AUDIO OUT" jack of your CD ROM drive. (See Fig. 1-7)
- 2. Connect the other end of the audio cable to the LCD Monitor's "LINE IN" jack.



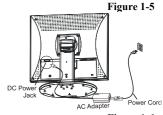


Figure 1-6



#### Figure 1-7

# **Optional Mounting Alternatives**

*Warning:* The monitor stand base may forcefully extend and cause injury. Raise the monitor to its "Full Up" position before removing the monitor stand.

## **Detaching LCD Monitor from Its Stand**

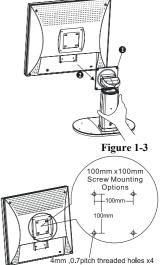
Unscrew screws  ${\bf 0}$  the swivel base support column and pull down  ${\bf 0}$  the second.

## Interface for Arm Applications

Before installing to mounting device, please refer to Fig.1-3. 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 1-4. 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). *Note :Please using 0 4mm x 8mm (L) screw for this application.* 

### **Power Management System**

This LCD Monitor complies with the VESA DPMS (version 1.0) Power Management guidelines. The VESA DPMS provides four power saving modes through detecting a horizontal or vertical sync. signal. When the LCD Monitor is in power saving mode, the monitor screen will be blank and the power LED indicator will light yellow.

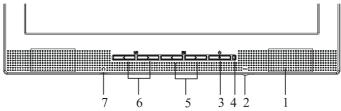




# Chapter 2 Display Controls

# **User Controls**

A brief description and the location of all LCD Monitor functions control and indicator:





1	Stereo Speakers	PC Audio Stereo output.
2	Speaker Volume Control	Increase Volume - Turn the knob clock wise. Decrease Volume - Turn the knob counter clock wise.
3	Soft Power Switch	Press the soft power switch to switch the monitor ON/OFF.
4	Power-On Indicator	LED lights Green color Power is ON. LED lights Yellow Monitor is in "Power Saving Mode". LED is off Power is OFF.
5	Function Select Buttons	Press either left or right control button for OSD (On Screen Display) menu selection.
6	Adjustment Control Buttons	Press the left button to decrease the OSD setting and press the right button to increase the OSD setting.
7	External Headphone Jack	The monitor speakers will be disabled when using an external headphone or external speakers.

# Adjusting the Monitor's Display

The monitor has four function control buttons to select among functions shown on OSD menu, designed for easy user-viewing environments.

# OSD Function Menu

To access OSD Main menu, simply press one of the Function Select control buttons, and the menu diagram will pop up on the screen as shown on Fig. 2-2:

Continue pressing the Function Select buttons to scroll through the entire menu items, then press Adjustment Control buttons to adjust content of selected item.



Figure 2-2

Attention: Firmware revision may have been updated in your monitor. However, the version number shown on all OSD menus in this manual are listed Ver. 1.00.

**Function Description** 

Function Description					
to 100).					
100).					
he transparency is					
as and clarity of the					
ffers users better ailable on the a be variable in ber of clock clock value may is different from					
Push the ( ) button to select a different color temperature. Please see the diagram below for function and description.					
у.					
Hz, and 720 x 400 ect either 640 x					
factory preset					
nan, French, ontrol button to					
Auto Adjustment, y size, clock and y size, clock and y size, clock and y and y size, clock and y and y size, clock and y size, cloc					
function.					

.

Icon	_ Function _	Description
9300	CIE coordinated Color Temperature of 9300°K	Sets the CIE coordinate color temperature to 9300°K
7500	CIE coordinated Color Temperature of 7500°K	Sets the CIE coordinate color temperature to 7500°K
6500	CIE coordinated Color Temperature of 6500°K	Sets the CIE coordinate color temperature to 6500°K
User	Three colors (Red, Green, Blue) can be adjusted from the OSD menu	Sets the settings to a by user defined CIE Temperature.

# **Chapter 3 Technical Information**

PL2011M

1600x1200

Active matrix color TFT LCD

 $300 \text{ cd/m}^2 \text{ (typical) / } 240 \text{ cd/m}^2 \text{ (minimum)}$ 

Digital TMDS

TMDS

24~80KHz

49~75 Hz

1600 x (RGB) x 1200 408.0x306.0 (H x V)

1000:1 (typical) Ta=25°C Tr+Tf=16ms

Gray to Gray: 8ms

744 Vrms (typical)

7.0 mA rms. (typical) Vertical:  $-85^{\circ} \sim +85^{\circ}$ 

Horizontal: -85° ~ +85°

Analog RGB 0.7Vp-p

Horizontal Frequency: 24 ~ 80 KHz

Vertical Frequency: 49 ~ 75 Hz

75 Ohm  $\pm$  2% Positive, Negative

500mVrms

2W+2W

 $0 - 0.7 \pm 0.05$  Vp

20.1"

16.7M

# Specifications

Size Display Type Resolution Display Dot Display Area (mm) Display Color Brightness Contrast Ratio

Response Time

Lamp Voltage Lamp Current Viewing Angle

#### Video

Input Signal Input Impedance Polarity Amplitude Multi-mode Supported

#### <u>Audio</u>

Input Output

#### Control

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

#### <u>OSD</u>

0.01	
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	26 characters x 15 rows

#### **Power Management**

Mode	Power Consumption*	AC Input	LED Color
On	70W maximum	240 VAC	Green
Off	3W maximum	240 VAC	Yellow
Soft switch off	3W maximum	240 VAC	Dark
Disconnected	3W maximum	240 VAC	Yellow: Standby, Suspend, Off Dark: Power off

\* Meeting VESA DPMS requirements measured from AC Input.

# Sync Input Signal

#### Polarity

#### Plug & Play **External Connection**

Power Input (AC input) Video Cable Audio Cable Environment

Operating Condition:

Storage Condition:

#### **Power Supply (AC Input)**

Input Voltage Input Current Size and Weight

#### Dimensions

Net Weight Gross Weight Separate TTL compatible horizontal and vertical synchronization Digital TMDS Positive and negative Supports VESA DDC2B functions

Power cord 15-pin D-sub connector, 24-pin DVI-D Stereo Jack

Temperature Relative Humidity Temperature Relative Humidity

5°C to 40°C/41°F to 104°F 20% to 80% -20°C to 60° C/-4°F to140° F 5% to 85%

Single phase, 100 ~ 240VAC, 50 / 60 Hz 1.2 A maximum

451.4 (W) x 451.8 (H) x 214 (D) mm  $12.9 \pm 0.5 \text{ kg}$  $14.9 \pm 0.5 \text{ kg}$ 

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

If the selected timing i	is NOT inclu	uded in table be	low, this LC	D monitor will	use the most suita	able available tim	ning.	
TIMING	FH(KHZ)	SYNC	TOTAL	ACTIVE	SYNC	FRONT	BACK	PIXEL
	FV(HZ)	POLARITY	(DOT/	(DOT/	WIDTH	PORCH	PORCH	FOREQ
			LINE)	LINE)	(DOT/LINE)	(DOT/LINE)	(DOT/LINE)	(MHZ)
640x350	31.469	+	800	640	96	16	48	25.175
VGA-350	70.087	_	449	350	2	37	60	
640x400	24.83	_	848	640	64	64	80	21.05
NEC PC9801	56.42	_	440	400	8	7	25	21.05
		_	-					05.175
640x400	31.469	-	800	640	96	16	48	25.175
VGA-GRAPH	70.087	+	449	400	2	12	35	
640x400	31.5	-	800	640	64	16	80	25.197
NEC PC9821	70.15	-	449	400	2	13	34	
640X480	31.469	-	800	640	96	16	48	25.175
VESA-PAL	50.030	-	629	480	2	62	85	
640x480	31.469	_	800	640	96	16	48	25.175
VGA-480	59.94		525	480	2	10	33	23.175
		_						20.24
640x480	35.00	-	864	640	64	64	96	30.24
APPLE MAC-480	66.67	-	525	480	3	3	39	
640x480	37.861	-	832	640	40	16	120	31.5
VESA-480-72Hz	72.809	-	520	480	3	1	20	
640x480	37.5	_	840	640	64	16	120	31.5
VESA-480-75Hz	75	-	500	480	3	1	16	
720x400	31.469	-	900	720	108	18	54	28.322
VGA-400-TEXT	70.087	+	449	400	2	12	35	
832x624 APPLE	49.725	-	1152	832	64	32	224	57.2832
MAC-800	74.55	_	667	624	3	1	39	
800x600	35.156	+	1024	800	72	24	128	36
SVGA	56.25	+	625	600	2	1	22	50
800x600	37.879	+	1056	800	128	40	88	40
VESA-600-60Hz	60.317	+	628	600	4	1	23	
800x600	48.077	+	1040	800	120	56	64	50
VESA-600-72Hz	72.188	+	666	600	6	37	23	
800x600	46.875	+	1056	800	80	16	160	49.5
VESA-600-75Hz	75	+	625	600	3	1	21	
1024x768	48.363	-	1344	1024	136	24	160	65
XGA	60.004	-	806	768	6	3	29	
1024x768	53.964	+	1328	1024	176	16	112	71.664
COMPAQ-XGA	66.132	+	816	768	4	8	36	
1024x768	56.476	-	1328	1024	136	24	144	75
VESA-768-70Hz	70.069	-	806	768	6	3	29	
1024x768	60.023	+	1312	1024	96	16	176	78.75
VESA-768-75Hz	75.029	+	800	768	3	1	28	
1024x768	60.24	-	1328	1024	96	32	176	80
APPLE MAC-768	75.02	-	803	768	3	3	29	0.0
1152x864	54.054	+	1480	1152	96	40	192	80
(60Hz)	59.270	+	912	864	3	13	32	04.400
1152x864	63.851	+	1480	1152	96	32	200	94.499
(70Hz)	70.012	+	912	864	3	1	44	100.00
1152x864	67.50	+	1600	1152	128	64	256	108.00
(75Hz)	75.00	+ +	900 1800	864 1280	2 112	2 96	32 312	108.00
1280x960	60.00 60.00	+ +	1800	960	3	96	312	108.00
(60Hz) 1280x960	60.00 70.00	+ +	1800	1280	112	96	36	126.00
(70Hz)	70.00	+	1000	960	3	96	36	120.00
(70HZ) 1280x960	75.00	+	1800	1280	112	96	312	135.00
(75Hz)	75.00	+	1000	960	3	96	36	155.00
(75112) 1280x1024VESA-	64	+	1688	1280	112	48	248	108
1024-60Hz	60	+	1088	1024	3	40	38	100
1280x1024VESA-	80	+	1688	1024	144	16	248	135
1024-75Hz	75	+	1066	1024	3	1	38	155
16000x1200VESA	75	+	2160	1600	192	64	304	162
-1200-60Hz	60	+	1250	1200	50	1	46	
	~~							

Note: Mode 640x350, 640x400 and 720x400 will locate on middle position but cannot be expanded to full screen on vertical direction.

# 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.
- 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:  $24 \sim 80$  KHz and Vertical:  $49 \sim 75$  Hz), the OSD will display a "*Out of Range*" message. Choose a mode that is supported by your LCD Monitor.

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

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http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com