

PL1900 LCD Monitor

USER'S GUIDE

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Planar Systems, Inc

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For Your Safety

Before operating the monitor, please read this manual thoroughly. This manual should be retained for future reference.

FCC Class B Radio Frequency Interference Statement WARNING: (FOR FCC CERTIFIED MODELS)

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:

1. 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.

4. Consult the dealer or an experienced radio/TV technician for help.

NOTICE:

 The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

2. Shielded interface cables and AC power cord, if any, must be

used in order to comply with the emission limits.

 The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification to this equipment. It is the responsibilities of the user to correct such interference.

WARNING:

To prevent fire or shock hazard, do not expose the monitor to rain or moisture. Dangerously high voltages are present inside the monitor. Do not open the cabinet. Refer servicing to qualified personnel only.

Important Recycle Instruction:

(Hg) 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 WWW.LAMPRECYCLE.ORG.

PRECAUTIONS

- Do not use the monitor near water, e.g. near a bathtub, washbowl, kitchen sink, laundry tub, swimming pool or in a wet basement.
- Do not place the monitor on an unstable cart, stand, or table. If the
 monitor falls, it can injure a person and cause serious damage to
 the appliance. Use only a cart or stand recommended by the
 manufacturer or sold with the monitor. If you mount the monitor on
 a wall or shelf, use a mounting kit approved by the manufacturer
 and follow the kit instructions.
- Slots and openings in the back and bottom of the cabinet are provided for ventilation. To ensure reliable operation of the monitor and to protect it from overheating, be sure these openings are not blocked or covered. Do not place the monitor on a bed, sofa, rug, or similar surface. Do not place the monitor near or over a radiator or heat register. Do not place the monitor in a bookcase or cabinet unless proper ventilation is provided.
- The monitor should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
- The monitor is equipped with a three-pronged grounded plug, a plug with a third (grounding) pin. This plug will fit only into a grounded power outlet as a safety feature. If your outlet does not accommodate the three-wire plug, have an electrician install the correct outlet, or use an adapter to ground the appliance safely. Do not defeat the safety purpose of the grounded plug.
- Unplug the unit during a lightening storm or when it will not be used for long period of time. This will protect the monitor from damage due to power surges.
- Do not overload power strips and extension cords. Overloading can result in fire or electric shock.
- Never push any object into the slot on the monitor cabinet. It could short circuit parts causing a fire or electric shock. Never spill liquids on the monitor.
- Do not attempt to service the monitor by yourself; opening or removing covers can expose you to dangerous voltages and other hazards. Please refer all servicing to qualified service personnel.
- To ensure satisfactory operation, use the monitor only with UL listed computers which have appropriate configured receptacles marked between 100 - 240V AC, Min. 5A.
- The wall socket shall be installed near the equipment and shall be easily accessible.
- For use only with the attached power adapter (Output 12Vdc) which have UL, CSA listed license.

GENERAL NOTES

SPECIAL NOTES ON LCD MONITORS

The following symptoms are normal with LCD monitor and do not indicate a problem.

NOTES

- Due to the nature of the fluorescent light, the screen may flicker during initial use. Turn off the Power Switch and then turn it on again to make sure the flicker disappears.
- You may find slightly uneven brightness on the screen depending on the desktop pattern you use.
- The LCD screen has effective pixels of 99.99% or more. It may include blemishes of 0.01% or less such as a missing pixel or a pixel lit all of the time.
- Due to the nature of the LCD screen, an afterimage of the previous screen may remain after switching the image, when the same image is displayed for hours. In this case, the screen is recovered slowly by changing the image or turning off the Power Switch for hours.

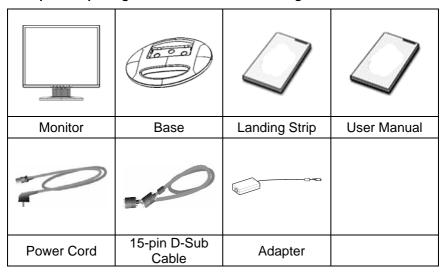
BEFORE YOU OPERATE THE MONITOR

FEATURES

- 48.0cm(19") TFT Color LCD Monitor
- · Crisp, Clear Display for Windows
- Recommended Resolutions: 1280 X 1024 @60Hz
- EPA ENERGY STAR[®]
- Space Saving, Compact Case Design

CHECKING THE CONTENTS OF THE PACKAGE

The product package should include the following items:



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Installation Instructions

Power Source:

- Make sure that the power cord is the correct type required in your area.
- This LCD monitor has an External universal power supply that allows operation in either 100/120V AC or 220/240V AC voltage area (No user adjustment is required.)
- 3. Connect the AC-power cord into your LCD monitor's External Adapter input socket, and then plug the other end of External adapter to LCD monitor's DC-power-input. The AC-power cord may be connected to either a wall power outlet or the power outlet socket on your PC, depending on the type of power cord supplied with your LCD monitor.

Installation Instructions

CABLE CONNECTIONS

Connecting the Signal Cable: the LCD monitor comes with a built-in signal cable. Plug the signal cable's 15-pin connector into the computer's VGA port and tighten the two screws on the cable connector.

Connecting the Power Cord: Plug the AC-power cord into the External Adapter. Then plug the DC-jack power cable into DC-IN Inlet.

Caution: If the AC outlet is not grounded (with three holes), install the proper grounding adapter (not supplied).

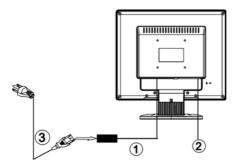


Figure 1 Connecting Cables

1.	DC-Jack Power Cable	2.	Signal Cable
3.	AC Power Cord		

Installation Instructions

ADJUSTING THE VIEWING ANGLE

- For optimal viewing it is recommended to look at the full face of the monitor, then adjust the monitor's angle to your own preference.
- Hold the stand so you do not topple the monitor when you change the monitor's angle.
- You are able to adjust the monitor's angle from -5° to 20°.

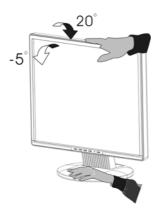


Figure 2

NOTES

- Do not touch the LCD screen when you change the angle. It may cause damage or break the LCD screen.
- Careful attention is required not to catch your fingers or hands when you change the angle.

OPERATING INSTRUCTIONS

GENERAL INSTRUCTIONS

Press the power button to turn the monitor on or off. The other control buttons are located at front panel of the monitor (See Figure 3). By changing these settings, the picture can be adjusted to your personal preferences.

- The power cord should be connected.
- Connect the video cable from the monitor to the video card.
- Press the power button to turn on the monitor position. The power indicator will light up.

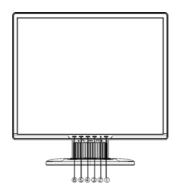


Figure 3 External Control Button

EXTERNAL CONTROLS

	1.	Power Button	2.	LED
	3.	MENU/ENTER	4.	Contrast
Γ	5.	Brightness	6.	Auto Adjust Key/Exit

OPERATING INSTRUCTIONS(cont.)

Power Button:

Press this button to switch ON/OFF of monitor's power.

MENU / ENTER :

Active OSD menu or function adjust confirm or Exit OSD menu when in Brightness/Contrast OSD status.

· Contrast:

Adjust contrast or function adjust.

Brightness:

Adjust brightness or function adjust.

Auto Adjust button / Exit:

- When OSD menu is in active status, this button will act as EXIT-KEY (EXIT OSD menu).
- When OSD menu is in off status, press this button over 2 seconds to activate the Auto Adjustment function. The Auto Adjustment function is used to set the HPos, VPos, Clock and Focus.

Power Indicator:

Green — Power On mode. Amber — Standby mode.

OSD Lock Function:

Option 1: OSD lock - all 4 buttons are locked except the "POWER" button. Press and hold the "MENU" and "V" buttons for 3 seconds to lock the buttons. Repeat this step to unlock.

Option 2: OSD & Power button lock - all 5 buttons including the "POWER" button are locked. Press and hold the "MENU" and "AUTO" buttons for 3 seconds to lock all 5 buttons. Repeat this step to unlock.

NOTES

- Do not install the monitor in a location near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, or excessive dust or mechanical vibration or shock.
- Save the original shipping carton and packing materials, as they will come in handy if you ever have to ship your monitor.
- For maximum protection, repackage your monitor as it was originally packed at the factory.
- To keep the monitor looking new, periodically clean it with a soft cloth. Stubborn stains may be removed with a cloth lightly dampened with a mild detergent solution. Never use strong solvents such as thinner, benzene, or abrasive cleaners, since these will damage the cabinet. As a safety precaution, always unplug the monitor before cleaning it.

OPERATING INSTRUCTIONS (cont.)

HOW TO ADJUST A SETTING

- 1. Press the MENU-button to activate the OSD window (Figure 4).
- 2. Press ∧ or ∨ to navigate through the functions. Once the desired function is highlighted, press the MENU-button to activate it. If the function selected has a sub-menu, press ∧ or ∨ again to navigate through the sub-menu functions. Once the desired function is highlighted, press MENU-button to activate it.
- 3. Press \wedge or \vee to change the settings of the selected function.
- 4. To exit and save, select the exit function. If you want to adjust any other function, repeat steps 2-3.

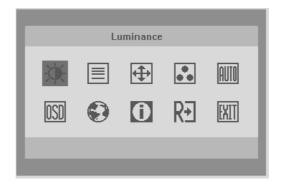


Figure 4 The OSD Message

OPERATING INSTRUCTIONS (cont.)

ADJUSTING THE PICTURE

The descriptions for function control LEDS

Main Menu Item	Main Menu Icon	Sub Menu Item	Sub Menu Icon	Description
Luminance)	Contrast	lacktriangledown	Contrast from Digital-register.
Lummance	į-	Brightness	苁	Backlight Adjustment.
Image		Focus		Adjust Picture Phase to reduce Horizontal-Line noise.
Setup		Clock	\equiv	Adjust picture Clock to reduce Vertical-Line noise.
Image	(1)	H.Position		Adjust the horizontal position of the picture.
Position	•	V.Position		Adjust the vertical position of the picture.
	••	Warm	N/A	Recall Warm Color Temperature from EEPROM.
		Cool	N/A	Recall Cool Color Temperature from EEPROM.
Color		sRGB	N/A	Recall sRGB Temperature from EEPROM.
Temp.		User/ Red	R	Red Gain from Digital-register.
		User / Green	O	Green Gain Digital-register.
		User / Blue	В	Blue Gain from Digital-register.
Auto	AUTO	Yes	N/A	Auto Adjust the H/V Position, Focus and Clock of picture.
Config		No	N/A	Do not execute Auto Config, return to main menu.

OPERATING INSTRUCTIONS (cont.)

Main Menu Item	Main Menu Icon	Sub Menu Item	Sub Menu Icon	Description
		H.Position	†	Adjust the horizontal position of the OSD.
OSD Setup	OSD	V.Position	+ □+	Adjust the vertical position of the OSD.
		OSD Timeout	0	Adjust the OSD timeout.
Language	•	Language	N/A Select the language you like.	
Information	0	Information	N/A	Show the resolution, H/V frequency and input port of current input timing.
Reset	DΊ	Yes	N/A	Clear each old status of Auto-configuration.
	בא	No	N/A	Do not execute reset, return to main menu.
Exit	EXIT	N/A	N/A	Exit OSD.

PLUG AND PLAY

Plug & Play DDC 2B Feature

This monitor is equipped with VESA DDC 2B capabilities according to the VESA DDC STANDARD. It allows the monitor to inform the host system of its identity and, depending on the level of DDC used, communicate additional information about its display capabilities. The DDC 2B is a bidirectional data channel based on the I²C protocol. The host can request EDID information over the DDC 2B channel.

THIS MONITOR WILL APPEAR TO BE NON-FUNCTIONAL IF THERE IS NO VIDEO INPUT SIGNAL. IN ORDER FOR THIS MONITOR TO OPERATE PROPERLY, THERE MUST BE A VIDEO INPUT SIGNAL.

This monitor meets the Green monitor standards as set by the Video Electronics Standards Association (VESA) and/or the United States Environmental Protection Agency (EPA) and The Swedish Confederation Employees (NUTEK). This feature is designed to conserve electrical energy by reducing power consumption when there is no video-input signal present. When there is no video input signal this monitor, following a time-out period, will automatically switch to an OFF mode. This reduces the monitor's internal power supply consumption. After the video input signal is restored, full power is restored and the display is automatically redrawn. The appearance is similar to a "Screen Saver" feature except the display is completely off. The display is restored by pressing a key on the keyboard, or clicking the mouse.

TECHNICAL SUPPORT (FAQ)

Problem & Question	Possible Solution
Power LED is not on	*Check if the Power Switch is in the
	ON position
	*Power Cord should be connected
No Plug & Play	*Check if the PC system is Plug &
	Play compatible
	*Check if the Video Card is Plug &
	Play compatible
	*Check if the D-15 plug pin of Video
	Cable is bent.
Picture is fuzzy	*Adjust the Contrast and Brightness
	Controls.
Picture bounces or a wave	*Move electrical devices that may
pattern is present in the	cause electrical interference.
picture	
The power LED is ON	*Computer Power Switch should be
(Amber) but there's no video	in the ON position.
òr no picture.	*Computer Video Card should be
	snugly seated in its slot.
	*Make sure monitor's video cable is
	properly connected to the computer.
	*Inspect monitor's video cable and
	make sure none of the pins are
	bent.
	*Make sure computer is operational
	by hitting the CAPS LOCK key on
	the keyboard while observing the
	CAPS LOCK LED. The LED should
	either turn ON or OFF after hitting
Mississ and the walks	the CAPS LOCK key.
Missing one of the primary	*Inspect the monitor's video cable
colors (RED, GREEN, or	and make sure that none of the pins
BLUE)	are bent.
Screen image is not centered	*Adjust pixel frequency (CLOCK)
or sized properly.	and FOCUS or press hot-keý (AUTO).
Picture has color defects	*Adjust RGB color or select color
(white does not look white)	temperature.
Horizontal or vertical	*Use win 95/98 shut-down mode
disturbances on the screen	Adjust CLOCK and FOCUS or
disturbances on the screen	perform hot- key (AUTO-key).
	penonii not-key (Au i O-key).

TECHNICAL SUPPORT (FAQ) (cont.)

CLOCK (pixel frequency) controls the number of pixels scanned by one horizontal sweep. If the frequency is not correct, the screen shows vertical stripes and the picture has not correct width.

FOCUS adjusts the phase of the pixel clock signal. With a wrong phase adjustment the picture has horizontal disturbances in light picture.

For FOCUS and CLOCK adjustment use "dot-pattern" or win 95/98 shut-down mode pattern.

ERROR MESSAGE & POSSIBLE SOLUTION

CABLE NOT CONNECTED:

- 1. Check that the signal-cable is properly connected. If the connector is loose, tighten the connector's screws.
- 2. Check the signal-cable's connection pins for damage.

INPUT NOT SUPPORT:

Your computer has been set to unsuitable display mode, set the computer to display mode given in the following table. (see page 22)

APPENDIX

SPECIFICATIONS

	Driving	TFT Color LCD	
		TET COIOI ECD	
LCD Panel	system	40.0 (4.011)	
LCD Parier	Size	48.0cm(19")	
	Pixel pitch	0.294mm(H) × 0.294mm(V)	
	Video	R,G,B Analog Interface	
Input	Separate	H/V TTL	
	Sync.		
	H-Frequency	30kHz – 83kHz (Analog)	
	V-Frequency	55-75Hz (Analog)	
Display Colors		16.7M Colors	
Dot Clock		135MHz (Analog)	
Max. Resolution		1280 x 1024 @75Hz(Analog)	
Plug & Play		VESA DDC2B™	
EPA ENERGY	ON Mode	≤25W	
STAR®			
	OFF Mode	≤1W	
Input Connector		15-pin D-Sub	
Input Video Signal		Analog:0.7Vp-p(standard),	
		75 OHM, Positive	
Maximum Screen		Horizontal: 376.32mm	
Size		Vertical: 301.056mm	
Power Source		100~240VAC,47~63Hz	
Environmental		Operating Temp: 0° to 40°C	
Considerations		Storage Temp.: -25° to 55°C	
		Operating Humidity:	
		10% to 85%	
Dimension		406×404×207 (W ×H×D)mm	
Weight (N. W.)		4.1kg Unit (net)	

APPENDIX (cont.)

	Switch	Auto Adjust KeyBrightnessContrastPower ButtonMENU
External Controls:	Functions	 Contrast Brightness Focus Clock H. Position V. Position (Warm)Color (Cool)Color sRGB RGB Color temperature Auto Config OSD Setup Language Information Reset Exit
Power Consumption (Maximum)		25 Watts
Regulatory Complian	се	UL/cUL, FCC B, CE

APPENDIX (cont.)

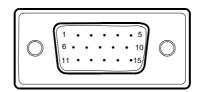
Preset Display Modes

STANDARD	RESOLUTION	HORIZONTAL FREQUENCY	VERTICAL FREQUENCY
Dos-mode	720 × 400	31.469kHz	70.0Hz
VGA	640 × 480	31.470kHz	60.0Hz
VGA	640 × 480	37.500kHz	75.0Hz
SVGA	800 × 600	37.879kHz	60.0Hz
SVGA	800 × 600	46.875kHz	75.0Hz
	1024 × 768	48.363kHz	60.0Hz
XGA	1024 × 768	56.476kHz	70.0Hz
	1024 × 768	60.023kHz	75.0Hz
SXGA	1280 × 1024	63.981kHz	60.0Hz
SAGA	1280 × 1024	79.967kHz	75.0Hz

Note: The factory preset mode for DOS is 720x400 @70Hz.

APPENDIX (cont.)

CONNECTOR PIN ASSIGNMENT



15 - Pin Color Display Signal Cable

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1.	Red	9.	+5V
2.	Green	10.	Ground
3.	Blue	11.	Ground
4.	Ground	12.	DDC-Serial Data
5.	Detect Cable	13.	H-Sync
6.	R-Ground	14.	V-Sync
7.	G-Ground	15.	DDC-Serial Clock
8.	B-Ground		







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