PLANAR™

PQ1710M
PQ1910M
LCD Monitor

USER'S GUIDE

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PREFACE

This manual is designed to assist users in setting up and using the 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. Windows is a registered trademark of Microsoft Inc. Other brand or product names are trademarks of their respective holders.

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:

• Reposition 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 monitor 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 any interference received, including interference that may cause undesired operation.

IMPORTANT SAFETY INSTRUCTIONS

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

1. To clean the LCD Monitor screen:
    -- Power off the 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.

5. Store the 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.

Important Recycle Instruction:

(Hg) 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 WWW.EIAE.ORG. For lamp specific disposal information check WWW.LAMPRECYCLE.ORG.

Contains Mercury, Dispose of Properly.

1. Introduction

1.1 General

Thank you for purchasing our latest LCD monitor model. A light weight, high performance display with advantages of power saving and low radiation. The latest LCD will bring you a comfortable, safe, environmentally friendly visual experience.

Your purchase and use of this product is highly appreciated!

1.2 Features

--- High performance intelligent multi-frequency scanning, uses active matrix Thin film transistor liquid crystal display (TFT).

--- Micro Computer digital technology control, no radiation, no glare. Built-in multimedia speaker system.

--- Comply with VESA DPMS International Power Saving Regulation.

--- Support DDC 1/2B and Windows PNP Plug & Play.

--- Microprocessor based with OSD (On Screen Display) control, enabling image to be adjusted optimally.

--- Built-in hoisting hole complying with International Standard(VESA), allowing display to be hanged on a wall.

1.3 Packing list

Please make sure the following items are included with your LCD display before installation:
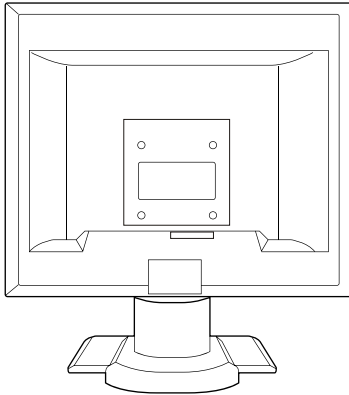
--- LCD monitor (with pedestal)

--- VGA signal cable, DVI-D signal cable

--- Audio cable

--- power cord

--- AC adapter

--- User's guide

If any of there items are missing, please contact with your dealer for technical support and customer service.

NOTE: be sure to save original box and all packing material for transport for future use

2. Installation

⑤ Installation hole for wall hanging (75mm)
① VGA signal input jack
② DVI signal input jack
③ Power jack
④ Audio input jack

① VGA signal input: connect to computer VGA signal output jack
② DVI signal input: connect to computer DVI signal output jack
③ Power jack: connect to adaptor DC output jack
④ Audio input: connect to computer sound card audio output jack

2.1 Connection of signal cable

Before connecting your monitor and PC with signal cable, please turn off your monitor and computer. Then insert one end of the signal cable into the VGA or DVI jack on your computer, and lock it with two fixed screw for ensured grounding. Finally, insert the other end of the signal cable to the VGA or DVI input jack on the monitor and lock it with fixed screw.

2.2 Connection of power cord

First, insert one end of power cord into the input jack of adaptor, and another end into power outlet, then insert the output terminal of adaptor into the power input jack of monitor.

2.3 Connection of Audio cable

Please insert one end of audio cable into the sound card audio output terminal on your computer, another end into the audio input terminal of monitor.

2.4 Power on

Turn on the monitor and computer, and then indicator will light green when the screen is under normal condition. If the indicator lights red, please check to see that the signal cables are properly connected.

2.5 Self-inspection

If the monitor detects there is no horizontal and vertical signal, it will prompt to check the video input, please refer to the illustration below, and the monitor will enter into power saving mode after several seconds, the indicator will light red. The screen will restore to normal display once a video signal is received.
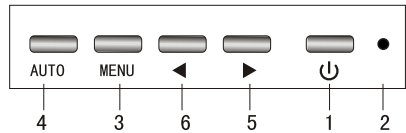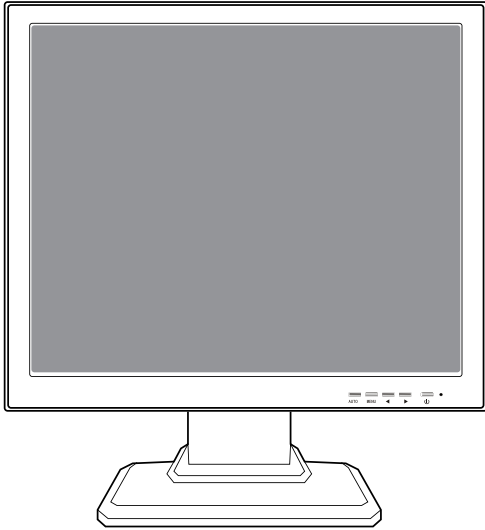
[!] NO SIGNAL

2.6 Image Adjustment

Please adjust the image according to your need; please refer to the "Operation" in Section Three.

3. Operation

3.1 OSD button

AUTO	MENU	◀	▶	⏻	●
4	3	6	5	1	2

(1) Power Switch(⏻)
  Digital control light-touch switch, used for turning on or off monitor power.

(2) Power Indicator
  When the monitor is under normal working condition, the indicator will light green.
 If the monitor is under power saving mode, the indicator will light red. And the indicator
 will turn off under the power off mode. (When the power indicator turns off, it means
 that the monitor is under off mode, but please pay attention that the adaptor is still
 charged, so please disconnect the adaptor when the monitor is not used for the
 purpose of safety.)

(3) Menu Button

Activates OSD, enters sub menu, selects items or confirms selection.

(4) AUTO Button

Automatically sets the screen display to optimum.

(5) UP ► Button

Selects and adjusts the OSD items (Increase the value)

(6) DOWN◄ Button

Selects and adjusts the OSD items (Decrease the value)
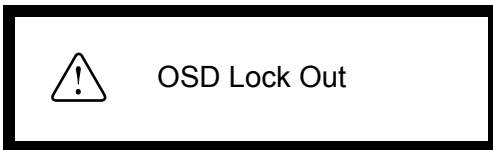
(7) OSD Lock Out Function

When monitor is in normal display, you can enable the "OSD Lock Out"function.

Option 1: OSD lock - all 4 buttons are locked except the "POWER"button.

Press and hold the 'MENU' and '◄' buttons at the same time for 3 seconds to lock the buttons.

The monitor will show an "OSD Lock Out" message for 5 ~ 10 seconds and the message

will disappear automatically.

⚠ OSD Lock Out

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 '►' buttons at the same time for 3 seconds to lock all 5 buttons.

The monitor will show an "Lock Out" message for 5 ~ 10 seconds and the message will

disappear automatically.

⚠ Lock Out

Repeat this step to unlock.

3.2 OSD menu and operation menu introduction

Press the MENU to call out the OSD menu (main menu), please see the illustration as below:

Press ▶ or ◀ to select the desired items, and then press the MENU button for adjustment, with ▶/◀ button to adjust the display items to optimum, press again for confirmation and exit adjustment.

Brightness adjust menu

Brightness: use ▶ or ◀ to adjust the brightness to optimum.

Contrast: use ▶ or ◀ to adjust the contrast to optimum..

Return: back to previous menu.

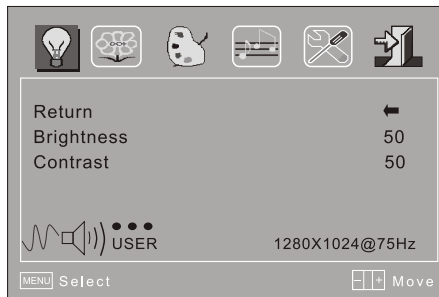|	
Return	←
Brightness	50
Contrast	50
USER	1280X1024@75Hz
MENU Select	Move

Image adjustment menu

Auto-adjust: this button will adjust the display to optimum

H-position adjustment: use ▶ or ◀ to adjust the horizontal position to optimum.

V-position adjustment: use ▶ or ◀ to adjust the vertical position to optimum.

Image position level/clock set: use ▶ or ◀ to adjust the image position level to optimum.

Phase adjustment: use ▶ or ◀ to adjust the focus and definition to optimum.

Return: back to previous menu.

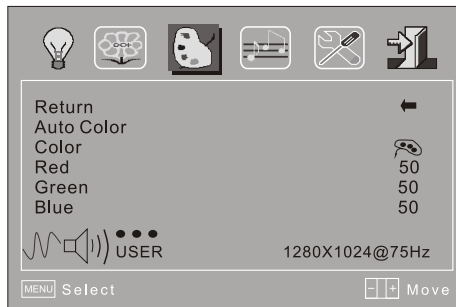|	
Return	←
Auto Adjust	
H Position	43
V Position	42
Clock	50
Phase	74
USER	1280X1024@75Hz
MENU Select	Move

Color adjustment menu

Red/Green/Blue color adjustment: use ► or ◄ to adjust the value of red, green and blue to change the image color so as to meet your needs.

Color temperature: use ► or ◄ to select desired color temperature (9300k, 6500k, USER)

Color adjustment: If you are not satisfied with the color temperature set by manufacturer, you may set the color temperature to USER mode; it will light red at this time. Please use ► or ◄ to adjust R, G, B to change the color of image.

Return: back to previous menu.

```
Return                    ←
Auto Color
Color                     🎨
Red                       50
Green                     50
Blue                      50
● ● ●
USER          1280X1024@75Hz
MENU Select          - + Move
```

Audio adjustment menu

Volume: use ► or ◄ to adjust the volume to optimum

Mute: use ► or ◄ to select Mute/Sound.

Return: back to previous menu.

```
Return                    ←
Mute                      🔊
Volume                    50
● ● ●
USER          1280X1024@75Hz
MENU Select          - + Move
```

System setting menu

Language: use ▶ or ◀ to select desired language.

OSD Timeout: use ▶ or ◀ to select the desired time for OSD to disappear.

Power Save: use ▶ or ◀ to select desired time for display to enter power saving mode.

Reset: reset all the set value to factory setting.

Return: back to previous menu.

Display mode:when setting OFF,it is display mode,whensettingON, it will be 4:3 display mode

Exit and signal resource selection menu

Select terminal input: select between VGA or DVI input

Exit: exit OSD menu

Note: Hot Key of volume, brightness, contrast

When OSD is not activated, pressing "◀" button will activate volume adjustment. You may use "▶/◀" to adjust to desired level. When volume adjustment is activated, pushing "Menu" once, will activate brightness. Pushing "Menu" twice, will activate contrast adjustments. You may use "▶/◀" to adjust to desired level.

3.3 Safeguard

When the video signal of your computer exceeds the frequency range of the monitor (see illustration below), the monitor will enter power saving mode after a few seconds, and the power indicator will light red. Please set the output frequency of your computer within the acceptable range of the monitor so that the monitor can work normally.

[!]   **OUT OF RANGE**

3.4 Setting of display mode

With standard VESA and DDC function, the monitor will scan frequency, output power, performance etc and transfer to PC after turning on when you use the video card with VESA DDC1/2B function. And it will identify the connection mode of display and select the proper resolution.

The preset mode before leaving factory is as below:

Resolution	Horizontal frequency (Khz)	Vertical frequency (Hz)
640 x 480	31.47	60
	37.86	72
	37.50	75
720 x 400	31.47	70
800 x 600	35.16	56
	37.88	60
	48.08	72
	46.88	75
1024 x 768	48.36	60
	56.48	70
	60.02	75
1280 x 1024	63.98	60
	79.98	75

3.5 Power management system

This monitor complies with EPA Energy Star, and is compatible with VESA DPMS standard; the saving mode is shown as below:

Mode	Power Indicator	Power Consumption 17"/19"
Normal	Green or blue	≤ 40W/45W
Standby/Saving	Red or turn off	≤ 2W
Power Off	Turn off	≤ 2W

4. Technical specification

4.1 TFT-LCD monitor specification

Part \ Model Name		PQ1710M	PQ1910M
LCD	Display area	337.92mm(H) x 270.33mm(V) (17″)	376.32mm(H) x 301.05mm(V) (19″)
	Pixel pitch	0.264mm(H) x 0.264mm(W)	0.294mm(H) x 0.294mm(W)
	Recommended Resolution	1280 x 1024 @ 60Hz	1280 x 1024 @ 60Hz
Video Signal	Horizontal Frequency	30KHz ∼ 80KHz	
	Vertical Frequency	60Hz ∼ 75Hz	
Power	Power Input	AC: 100V ∼ 240V 50/60Hz , DC: 12V 4A	
	Power Consumption	Max: below 40W	Max: below 45W
		Power save mode: below 2W	Power save mode: below 2W
I/O Connector		D−SUB, DVI−D, Audio(PC)	
Sound Output		2W(L), 2W(R)	
Packing Dimension		440(W)x128(D)x466(H) (mm)	505(W)x154(D)x519(H) (mm)
Environment	Operating	Temperature: 0°C∼40°C Humidity: 20%∼80%	
Condition	Storage	Temperature: −20°C∼40°C Humidity: 10%∼90%	

Note: all technical specifications in this manual and on the packing are subject to change without prior notice!

5. Troubleshooting

If your monitor does not function normally, please refer to the follow methods for common problems quickly, if you need assistance; please call the dealer where you purchased the Monitor.

A. There is no Screen Image/LED no light
Please check to see whether the power cord is securely connected to the monitor and wall outlet, and whether the display is in power saving mode.

B. There is no Screen Image/LED light red
Please to see whether the display card of PC is loose, and check the connection between signal cables and display.

C. The display is not clear or the image is too large or too small
Enter the OSD image adjustment menu, and then select "Auto Adjust" to make the display to adjust automatically to optimum.

D. The image is too light or too dark
Enter the OSD brightness adjustment menu, and then select the "▶/◀" to adjust the brightness and contrast to optimum.

E.. The screen is overheated
Please keep at least 5cm around the display for ventilation, and do not place anything onto the monitor.

F. Dark display after power on/ facula
This is normal. Due to the temperature difference, the backlight will not give out light equably at the beginning of powering on, but the backlight lamp will come to normal work after 20 minutes, the darkness and facula will disappear at this time.

G. The image is distorted
Check the computer and choose the proper resolution, then readjust and renovate the resolution.

H. The color is abnormal
Check the connection of signal cable, if there is any curved or broken pin, please replace it; Enter the OSD color adjustment menu to set the display color to the optimum.

6. Product Registration and Technical Support

Register Your Planar Products Today

Thank you choosing Planar. To assure you receive all the benefits of your Planar product and services, register your Planar product today.
Visit our website to register your product at
http://www.planar.com/support/product_registration.html

Cables, Replacement Lamps, Accessories

To find cables, replacement lamps and accessories for your Planar projector, LCD monitor, touch screen or other Planar products visit our online store at www.PlanarOnline.com or find other stores who carry Planar products at http://www.planar.com/howtobuy

Technical Support

Visit Planar at http://www.planar.com/support for product registration, operations manuals, touch screen drivers, warranty information and access to Planar's Technical Library for online troubleshooting.
To speak with Planar Customer Support please have you model and serial number available and dial:

Planar Support

Tel: 1-866-PLANAR1 (866-752-6271) or +1 503-748-5799 outside the US.
Hours: 24 hours a day, 7 days a week.
Toll or long distance charges may apply.

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