PLANAR

LA1710R, LA1710RTR and LA1710RTC

USER'S GUIDE

www.planar.com

Download from Www.Somanuals.com. All Manuals Search And Download.

The information contained in this document is subject to change without notice. This document contains proprietary information that is protected by copyright. All rights are reserved. No part of this document may be reproduced, translated to another language or stored in a retrieval system, or transmitted by any means, electronic, mechanical, photocopying, recording, or otherwise, without prior written permission.

Windows is a registered trademark of Microsoft, Inc.

Other brands or product names are trademarks of their respective holders.

European Union 2002/95/EC Directive on the Restriction of Hazardous Substances (RoHS) In February 2003, the European Union issued Directive 2002/95/EC on the Restriction of Hazardous Substances, commonly known as RoHS, in certain electrical and electronic equipment. It restricts the use of six hazardous substances, including lead (Pb).

The Directive states that all new products within its scope, placed on the European market after July 1, 2006 must be compliant with its requirements.

Planar Systems Inc. is fully in support of and compliant with EU Directive 2002/95/EC for applicable products within its scope.

A Planar part number will be modified with an "LF" suffix designation to indicate RoHS compliance, as shown on the part number label affixed to the display and on the box containing the display.

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>.

Revision Control	
DATE:	DESCRIPTION:
March 2004	Document number 020-0320-00A
March 2005	Document number 020-0320-00B
June 2006	Document number 020-0320-01A
May 2008	Document number 020-0320-01B
May 2010	Document number 020-0320-02A

Table of Contents

Usage Notice Precautions .4 Introduction .5 About the Product .5 Package Overview .8 Installation .8 Product Overview .9 User Controls .9 Front Panel Controls .13 How to Use the OSD Menus .14 On-Screen Display Menus .15

Appendix

Troubleshooting	. 19
Warning Signal	. 20
Product Dimensions	. 21
Video Modes	. 24
Touch Screen Driver Installation	. 25
Support and Service	. 28

Usage Notice



WARNING – To prevent the risk of fire or shock hazards, do not expose this product to rain or moisture.



WARNING – Please do not open or disassemble the product as this may cause electric shock.

Precautions

Follow all warnings, precautions and maintenance as recommended in this user's guide to maximize the life of your unit.

Do:

- □ Turn off the product before cleaning.
- LCD front surface may be cleaned using a soft clean cloth moistened with mild window glass commercial cleaners or 50/50 mixture of water and isopropyl alcohol.
- □ Use only high quality and safety approved AC/DC power adapter that comes with your monitor.
- Disconnect the power plug from AC outlet if the product is not used for an extended period of time.

Don't:

- Do not touch the LCD display screen surface with sharp or hard objects.
- Do not use abrasive cleaners, waxes or solvents for cleaning.
- □ Do not operate the product under the following conditions:
 - Extremely hot, cold or humid environment.
 - Areas susceptible to excessive dust and dirt.
 - Near any appliance generating a strong magnetic field.
 - In direct sunlight.

Introduction

About Planar's LA1710R / LA1710RTR / LA1710RTC

The LA17 products all have a 17" flat panel screen with an active matrix, thinfilm transistor (TFT) liquid crystal display (LCD).

Features include:

- Dual signal input: Analog VGA and Digital DVI-D
- Active matrix TFT LCD technology
- 1280 x 1024 SXGA resolution
- □ 8 ms GTG with RapidVideo[™] Accelerator
- □ 17" viewable display area
- 31 ~ 80 kHz horizontal scan
- □ 56 ~ 75 Hz refresh rate
- □ 0.264mm x 0.264mm pixel pitch
- □ 350 cd/m²(typ.) brightness
- 1000:1(typ.) contrast ratio
- L/R=85°/85°,U/D=80°/80° viewing angle, CR=10
- □ Tr+Tf = 5ms (typ.) response time
- □ 4 CCFT backlight lamps w/50,000 hrs life (typ.)
- Auto-adjustment function
- Multilingual OSD user controls
- VESA DPMS power saving
- Durable touch screen
- □ VESA rear mounting 100mm x 100mm standard

Touch Screen for LA1710RTR

Resistive for finger interface

- Surface: Anti-glare treatment
- Interface: USB
- Durability: 35 million touches at a single point
- □ Hardness: 4H per ASTM D3363-92
- □ Operating force: Finger < 50g average
- □ Transmissivity: 76% (typ.)
- □ Haze: 5%
- Clarity: 80%
- Driver: Windows® XP, Vista, Windows® 7

Touch Screen for LA1710RTC

Capacitive for finger interface

- Surface: Anti-glare treatment
- □ Interface: USB
- Durability: 225 million touches in a single location
- □ Hardness: Cannot be scratched using any stylus with Mohs' rating of

less than 6.5

- □ Transmissivity: 88%
- Driver: Windows® XP, Vista, Windows® 7, Linux

Package Overview



LCD Display







VGA Signal Cable







Landing Strip



Touch Screen Driver Installation CD-ROM (for LA1710RTR/ LA1710RTC)

USB Cable (for LA1710RTR/ LA1710RTC)



DVI Signal Cable

"L" Bracket, 2 pcs

Installation

Product Overview

Front View



Rear View



LA1710R, LA1710RTR and LA1710RTC User's Guide (020-0320-02 Rev. A) Download from Www.Somanuals.com. All Manuals Search And Download.

Connector Ports "A"



Connector Ports "B"



Connecting the display (Figure 1.1)

To set up this display, please refer to the following figure and procedures.

- 1. Be sure all equipment is off.
- 2. Connect the DC power cord to the power connector. Plug one end of the AC power cord into the power adapter, and the other end into an electrical outlet(1).
- 3. For the PC with Analog graphics output: connect the VGA signal cable from display VGA input connector to the 15-pin connector of your host computer and tighten the screws(2).
- 4. For DVI-D output: connect DVI cable from display to the PC(2a).
- 5. For the LA1710RTR or the LA1710RTC touch screen models configure the touch screen. Refer to the "Touch Screen Driver Installation" section on page 25.
- 6. Turn on your computer, display and video source.

Notice: To ensure the LCD display works well with your computer, configure the display mode of your graphic card, less than or equal to 1280 x 1024 resolution and make sure the timing of the display mode is compatible with the LCD panel. "Video Modes" of this LCD panel are listed in the appendices for your reference.

Figure 1.1





User Controls Front Panel Controls



No./ Icon		Control	Function	
0	0	Menu button	Displays the OSD menus.	
0	0	Select / Auto	Select- To select the adjustment items from OSD menus. Auto- To activate the "Auto Adjustment" function to obtain an optimum image.	
€	0	Brightness Minus / Minus	 Decreases the brightness of the display image. Decreases value of the adjustment items. 	
0	0	Brightness Plus / Plus	 Increases the brightness of the display image. Increases value of the adjustment items. 	
0	0	Power Switch	Switches on/off the power of the LCD display.	
0	D	Power LED	 Green indicates the display is turned on. Amber indicates the display is in power-saving mode. 	

How to Use the OSD Menus

- 1. Press the "Menu" button to pop up the on-screen menu and to select between the four main menus.
- 2. Choose the adjustment items by pressing the "Select/Auto" button.
- 3. Adjust the value of the adjustment items by pressing the "
 ^m button.
- 4. The OSD menu will automatically close, if you have left it idle for a pre-set amount of time.

14

First OSD Menu:

N	Main Menu Page 1
Auto-Adju	istment
Contrast	
Horizonta	l Position
Vertical P	osition
Brightness	
Clock	
Phase	
No	Yes

Auto-Adjustment

Choose this function to obtain an optimum image.

Contrast

This function allows the user to adjust the image crispness. Contrast adjusts the difference between white and black shades.

Horizontal Position

Changes the horizontal position of the image.

Vertical Position

Changes the vertical position of the image.

Clock

Changes the display data frequency to match the frequency of the graphic card. When you are experiencing vertical flickering bar, use this function to make an adjustment.

Phase

Synchronizes the signal timing of the display to that of the graphic card. When you are experiencing unstable to flickering image, use this function to make an adjustment.

Second OSD Menu:

Main M Page	1enu 2	
Display Mode		
OSD Off-Time		
Language		
Sharpness		
Reset		
1280 * 1	024	
FH: 63	kHz (+)	
FV: 59.9	Hz (+)	

Display Mode

Select this function to view the display resolution, vertical refresh, and horizontal scan of the current mode.

OSD Off-Time

Adjusts the time it takes for the OSD menu to disappear.

Language

Choose the language you need.

Sharpness

Adjust the sharpness of the image.

Reset

Returns the display parameters of the current mode to the factory default settings.

Third OSD Menu:



Volume

Controls the sound volume. **NOTE:** Audio functions disabled at factory.

Mute

Disables the sound immediately.

Input Select

Choose the input signal.

Fourth OSD Menu:

Main Pa	Menu ge 4	
Color		
Color Adjustme	ent-Red	
Color Adjustment-Green		
Color Adjustm	ent-Blue	
9300K	Preset	

- Color Adjusts the color temperature.
- Color Adjustment-Red Adjusts the red color of the display.
- Color Adjustment-Green
 Adjusts the green color of the display.
- Color Adjustment-Blue
 Adjusts the blue color of the display.

Appendix

Troubleshooting

If you are experiencing trouble with the LCD display, refer to the following. If the problem persists, please contact your local dealer or visit Planar Support at www.planar.com/support. See support contact information on rear cover.

Problem: No image appears on screen.

- Check that all the I/O and power connectors are installed correctly and well connected as described in the "Installation" section.
- Make sure the pins of the connectors are not crooked or broken.
- Reconfigure the resolution of your computer to make it less than or equal to 1280 x 1024.

Problem: Partial image or incorrectly displayed image.

- Check to see if the resolution of your computer is higher than that of the LCD display.
- Reconfigure the resolution of your computer to make it less than or equal to 1280 x 1024.

Problem: Image has flickering vertical line bars.

- Use "Clock" to make an adjustment.
- Check and reconfigure the display mode of the vertical refresh rate of your graphic card to make it compatible with the LCD display.

Problem: Image is unstable and flickering

Use "Phase" to make an adjustment.

Problem: Image is scrolling

- Check and make sure the VGA signal cable (or adapter) is well connected.
- Check and reconfigure the display mode of the vertical refresh rate of your graphic card to make it compatible with the LCD display.

Problem: Ghosting image (characters and graphics)

 Use "Clock" to make an adjustment. If the problem persists, use "Phase" to make an adjustment.

Warning Signal

If you see warning messages on your LCD screen, this means that the LCD display cannot receive a clean signal from the computer graphics card.

There may be three sources for this problem. Please check the cable connections or contact Planar for more information

٠ No Signal

This message means that the LCD display has been powered on but it cannot receive any signal from the computer graphic card. Check all the power switches, power cables, and VGA signal cable.

Going to Sleep

This message means that the LCD display is under the power saving mode. In addition, the LCD display will enter the sleeping mode when experiencing a sudden signal disconnecting problem.

Out of Range

This message means that the signal of the computer graphic card is not compatible with the LCD display. When the signal is not included in the "Video Modes" list we have listed in the Appendices of this manual, the LCD display will display this message.

Product Dimensions

LA1710R and LA1710RTR - Front View:



LA1710R/RTR Front View

LA1710R and LA1710RTR - Side View:



LA1710R and LA1710RTR - Rear View:



LA1710R/RTR Rear View

Video Modes

The monitor supports the following industry-standard combinations of screen resolution and refresh rates. Other combinations are possible, but may require adjustments to the image.

For the optimal performance, set your computer to a screen resolution of 1024 x 768 at a 60 Hz refresh rate.

Display Mode		Hsync (kHz)	Vsync (Hz)
	640 x 350	31.5	70
	640 x 480	31.5	60
VGA		37.9	72
		37.5	75
		35.2	56
SVCA	800 x 600	37.9	60
SVGA		48.1	72
		46.9	75
	1024 x 768	48.4	60
XGA		56.5	70
		60	75
CYCA.	1280 x 1024	64.0	60
SXGA		80.0	75
US TEXT	720 x 400	31.5	70
Apple	640 x 480	34.9	67
MAC		35	67
	832 x 624	49.7	75
	1024 x 768	60.2	75

Touch Screen Driver Installation

Driver Installation for LA1710RTR:

Resistive Touch Screen with USB Connection

Please note: These monitors are Microsoft Windows® HID (Human Interface Device) compatible. No additional software driver is required for general operation of the touch screen.

A special calibration tool can be installed for improved touch position accuracy. See Optional MicroTouch[™] USB HID Calibration Tool version 7.00 Installation Process.

Optional Driver MicroTouch[™] USB HID Calibration Tool Version 7.00 Installation Process for LA1710RTR: Resistive Touch Screen with USB Connection

Please note: These monitors are Microsoft HID (Human Interface Device) compatible. The calibration driver is not required for general operation of the touch screen.

This calibration tool is for optimization of touch performance for the touch screen to meet the 1% TPE accuracy specification.

The following Microsoft Windows[®] operating systems are supported by this software driver: **Microsoft Windows[®] XP, Vista, and Windows[®] 7.**

- 1. Be sure that the USB cable is not connected to the PC.
- 2. Open the CD-Rom.
- 3. Click the "LA1500RTR, LA1710RTR, PT1500MU / 1700MU Calibration Option" link.
- 4. Click "I accept" when the software license screen appears.
- 5. Follow the step-by-step instructions.
- 6. Reconnect the USB cable to the computer prior to use.
- 7. If the touch screen driver does not automatically load, restart the computer operating system.

Please read "Readme.txt" located in the unzipped file folder for additional information and assistance.

Driver Installation for LA1710RTC: Capacitive Touch screen with USB Connection

Touch driver information is located on the enclosed CD-ROM for the following operating systems: **Microsoft Windows® XP, Windows® Vista, and Windows® 7.**

- 1. Be sure that the USB cable is not connected to the PC.
- 2. Open the CD-Rom.
- 3. Click the "LA1710RTC, Win XP, Vista, Win 7" link
- 4. Click "I accept" when the software license screen appears.
- 5. Follow the step-by-step instructions.
- 6. Reconnect the USB cable to the computer prior to use.
- 7. If the touch screen driver does not automatically load, restart the computer operating system.

Please read "Readme.txt" located in the unzipped file folder for additional information and assistance.

Linux Driver Installation for LA1710RTC: Capacitive Touch screen with USB Connection

Touch driver information is located on the enclosed CD-ROM. Supported platforms include: Red Hat[®] Linux 8.0, Red Hat[®] Linux 9.0, and SuSE[®] Linux 8.2 and SuSE[®] Linux 9.0 on Pentium[®]-compatible CPUs. The following Xfree86 versions are supported: 4.0.3 and 4.1.0.

- 1. Open the CD-Rom.
- 2. Click the "LA1500RTR, LA1710RTR, LA1710RTC, Linux" link
- 3. Click "I accept" when the software license screen appears.
- 4. Follow the step-by-step instructions.
- 5. If the touch screen driver does not automatically load, restart the computer operating system.

Please read "Readme.txt" located in the unzipped file folder for additional information and assistance.

Support and Service

Planar is a US company based in Beaverton, Oregon and Espoo, Finland with a worldwide sales distribution network.

Visit Planar at http://www.planar.com/support for product registration, operations manuals, line drawings, touch screen drivers, warranty information and access to Planar's Technical Library for online troubleshooting.

To speak with Planar Customer Support please have your model and serial number available and dial one of these numbers:

Americas Support

Tel: 1-866-PLANAR1 (866-752-6271) or +1 503-748-1100 Hours: M-F, 8am - 8pm Eastern Time | M-F, 5am - 5pm Pacific Time

Europe and Asia-Pacific Support

Tel: +358-9-420-01 Hours: M-F, 7:00am - 4pm CET

Toll or long distance charges may apply.

Planar Systems, Inc. Customer Service 24x7 Online Technical Support: http://www.planar.com/support

Americas Support Tel: 1-866-PLANAR1 (866-752-6271) or +1 503-748-1100 Hours: M-F, 8am - 8pm Eastern Time | M-F, 5am - 5pm Pacific Time

Europe and Asia-Pacific Support Tel: +358-9-420-01 Hours: M-F, 7:00am - 4pm CET

© 2010 Planar Systems, Inc. 05/08 Planar is a registered trademark of Planar Systems, Inc. Other brands and names are the property of their respective owners. Technical information in this document is subject to change without notice.

Document No. 020-0320-02 Rev. A

Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

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

http://tv.somanuals.com