PLANAR

LA1910R and LA1910RTC Operations Manual

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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 manual to maximize the life of your unit.

Do:

- ❑ Turn off the product before cleaning.
- ❑ Use only a dry soft cloth or clean room wiper when cleaning the LCD panel surface.
- ❑ Use only high quality and safety approved AC/DC power adapter.
- ❑ Disconnect the power plug from AC outlet if the product is not used for a long period of time.

Don't:

- ❑ Do not touch the LCD panel 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.
  - Place in direct sunlight.

Introduction

About Planar's LA1910R / LA1910RTC

The LA19 is a 19" flat panel screen with an active matrix, thin-film 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
- ❑ 19" viewable display area
- ❑ 31.5 ~ 80 kHz horizontal scan
- ❑ 56 ~ 75 Hz refresh rate
- ❑ 0.294mm x 0.294mm pixel pitch
- ❑ 250 cd/m^2(typ.) brightness
- ❑ 500:1(typ.) contrast ratio
- ❑ L/R=85º/85º,U/D=85º/85º viewing angle, CR=10
- ❑ Tr=15ms(typ.)/Tf=10ms(typ.) response time
- ❑ CCFL backlight lamps w/30,000 hrs life
- ❑ Auto-adjustment function
- ❑ Multilingual OSD user controls
- ❑ VESA DPMS power saving
- ❑ Durable, capacitive touch screen (for LA1910RTC)

Touch Screen (for LA1910RTC)

Capacitive for finger interface

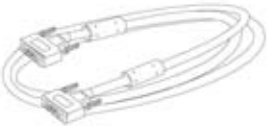
- Optical Clarity: Up to 88% light transmission
- Touch Contact Requirement: 3 ms for finger input
- Surface Scratch Hardness: Cannot be scratched using any stylus with Mohs' rating of less than 6.5.
- Durability: Touch screen has been tested in a laboratory environment to withstand over 225 million mechanical touches without noticeable degradation to the surface
- Surface Obstructions: Touch screen's operation unaffected by surface obstructions such as dirt, dust, grease, smoke, etc.
- Chemical Resistance: Touch screen is highly resistant to corrosives, in accordance with ASTM-D-1308-87 (1993) and ASTMD-F-1598-95.
- Liquid Resistance: Liquids on screen do not impede touch screen performance

Package Overview

LCD Display

Power Adapter

Power Cord



VGA Signal Cable

Quick Start Guide

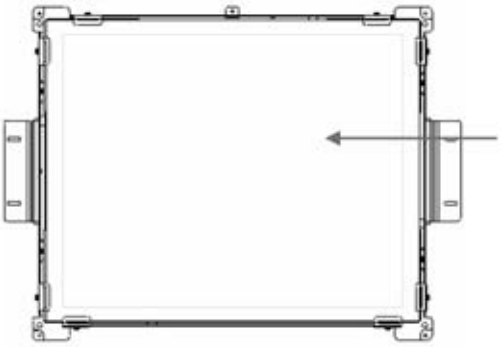
Touch Screen Driver
Installation CD-ROM
(for LA1910RTC)

LCD Display

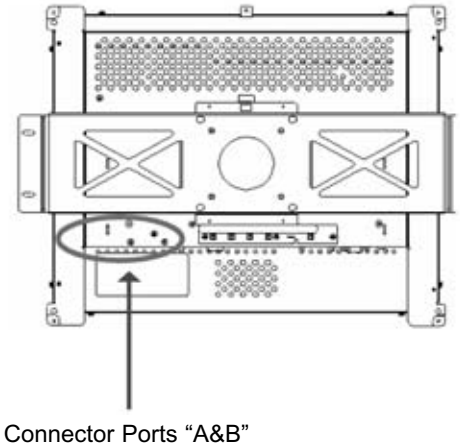
Installation

Product Overview

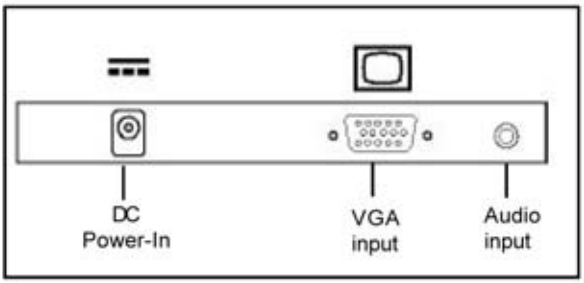
• Front View



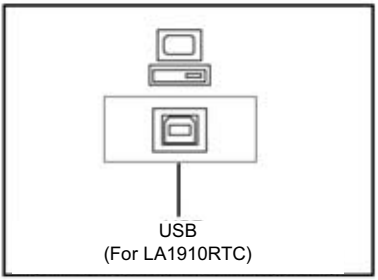
• Rear View



• **Connector Ports “A”**



• **Connector Ports “B”**



Connecting the display (Figure 1.1)

To configure this monitor, 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).

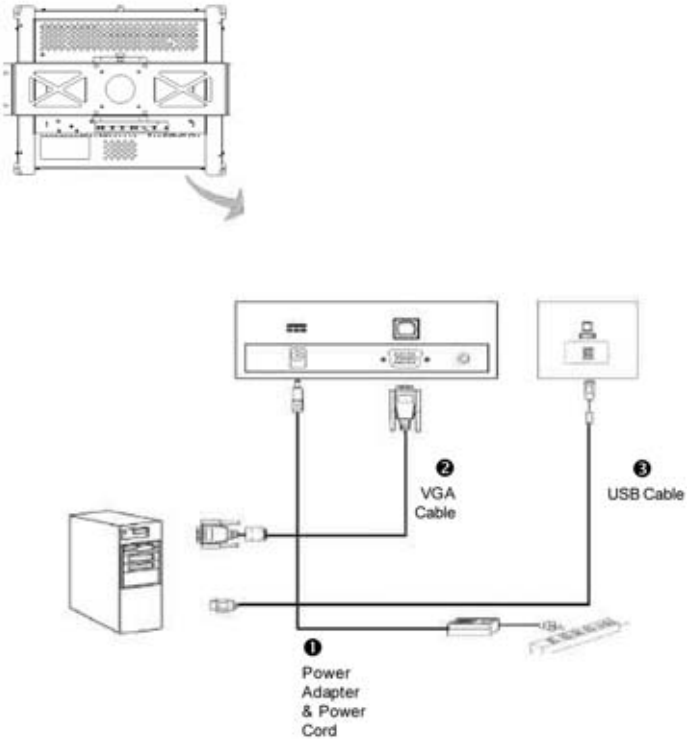
3. For the PC with Analog output: connect the VGA signal cable from display VGA input connector to the 15-pin connector of your host computer and tighten the screws(2).

4. Connect the USB cable from USB port of your display to the USB port of your computer(3).

5. Turn on your computer, display and video source.

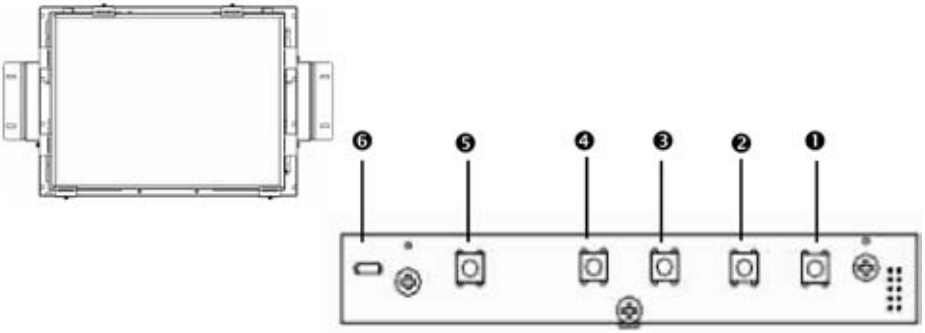
***Notice**: To ensure the LCD display works well with your computer, configure the display mode of your graphic card, less than or equal to 1280 x 1024 resolution and make sure the timing of the display mode is compatible with the LCD panel. "Compatibility Modes" of this LCD panel are listed in the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

Figure 1.1



User Controls

Front Panel Controls



No./ Icon	Control	Function
❶	Menu button	Displays the OSD menus
❷	Select / Auto	Select- To select the adjustment items from OSD menus. Auto- To activate the “Auto Adjustment” function to obtain an optimum image
❸	Brightness Minus / Minus	To adjust brightness press the “-” button first 1. Decreases the brightness of the display image 2. Decreases value of the adjustment items.
❹	Brightness Plus / Plus	To adjust brightness press the “-” button first 1. Increases the brightness of the display image 2. Increases value of the adjustment items.
❺	Power Switch	Switches on/off the power of the LCD display.
❻	Power LED	1. Green indicates the display is turned on. 2. Amber indicates the display is in power-saving mode.

How to Use the OSD Menus

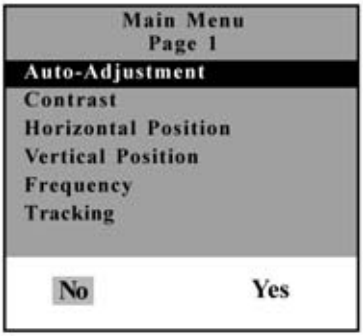
1. Press the “Menu” button to pop up the on-screen menu and to select between the four main menus.

2. Choose the adjustment items by pressing the “Select/Auto” button.

3. Adjust the value of the adjustment items by pressing the “ ” button.

On-Screen Display Menus

First OSD Menu:



- **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.

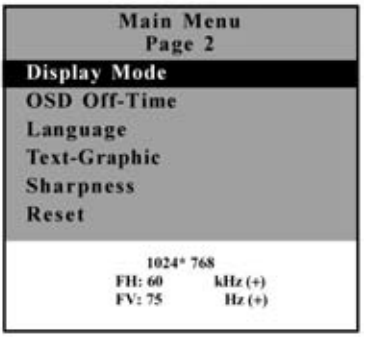
- **Vertical Position**
  Changes the vertical position of the image.

- **Frequency**
  Changes the display data frequency to match the frequency of the graphic card. When a vertical flickering bar is seen, use this function to make an adjustment.

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

On-Screen Display Menus

Second OSD Menu:



- **Display Mode**
  Selects 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**
  Chooses the language you need.

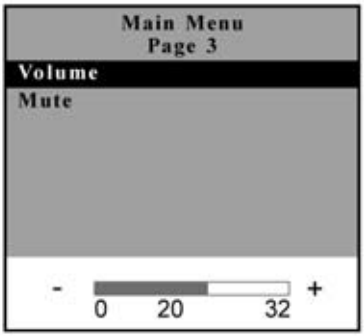
- **Text-Graphic**
  Toggles between VGA text mode (mode M03H) and graphic mode (mode M13H).

- **Sharpness**
  Adjust the sharpness of the image.

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

On-Screen Display Menus

Third OSD Menu:



- **Volume**
  Controls the sound volume.

- **Mute**
  Disables the sound immediately.

- **Video Source**
  Changes the video mode between multiple connections.

On-Screen Display Menus

Fourth OSD Menu:

- **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.

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 “Frequency” 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 “Tracking” 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: Vague image (characters and graphics)

- Use “Frequency” to make an adjustment. If the problem persists, use “Tracking” to make an adjustment.

Warning Signal

There are instances when you will see warning messages from the LCD screen. This occurs when the LCD is unable to receive the exact signal from the computer graphic card.

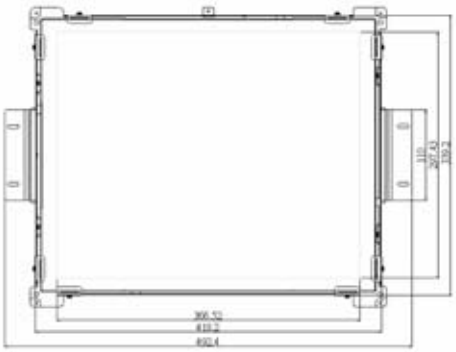
There are three instances when this may happen. Please check the cable connections or contact your local dealer or Planar Support for more information.

- **No Signal**
  The LCD has been powered on but it isn't receiving a signal from the computer graphic card. Check all the power switches, power cables, and VGA signal cable.

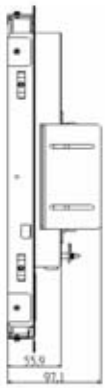
- **Going to Sleep**
  The LCD is under the power saving mode. In addition, the LCD will go into this sleeping mode when experiencing a sudden signal disconnecting problem.

- **Unsupport Mode**
  The signal of the computer graphic card is incompatible with the LCD. This occurs when the graphic card signal is not one of the compatibility modes listed in the Appendices of this manual.

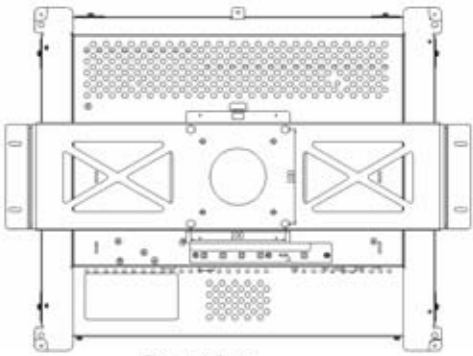
Product Dimensions



Front View



Side View



Rear View

Compatibility Modes

Mode	Resolution	V.Frequency (Hz)	H.Frequency (kHz)
IBM VGA	640 x 350	70	31.5
IBM VGA	640 x 400	70	31.5
IBM VGA	640 x 480	60	31.5
IBM VGA	720 x 400	70	31.5
VESA VGA	640 x 480	72	37.9
VESA VGA	640 x 480	75	37.5
VESA SVGA	800 x 600	56	35.2
VESA SVGA	800 x 600	60	37.9
VESA SVGA	800 x 600	72	48.1
VESA SVGA	800 x 600	75	46.9
VESA XGA	1024 x 768	60	48.4
VESA XGA	1024 x 768	70	56.5
VESA XGA	1024 x 768	75	60.0
VESA SXGA	1280 X 1024	60	64.0
VESA SXGA	1280 X 1024	75	80.0
Apple Mac	640 x 480	67	34.9
Apple Mac	640 x 480	67	35.0
Apple Mac	832 x 624	75	49.7
Apple Mac	1024 x 768	75	60.2

Touch Screen Driver Installation

Touch driver information is located on the enclosed CD-ROM for the following operating systems: Windows Me/2000/98/XP series.

Driver Installation Process:

1. Before installing the touch driver be sure that the USB cable is disconnected from the LCD.

Please read "Readme.txt" before you start the installation

Please note: Once the CD-Rom is loaded into the PC, it should automatically load the installation software. If not, follow steps 2-5 below.

2. Open the CD-Rom
3. Open the Touchware folder
4. Open the Disk 1 folder
5. Double click the "setup.exe" file
6. Follow the installation instructions
7. Connect the USB cable to the LCD.
8. If the touch screen driver does not automatically load, restart the system.

Touch Panel Setting and Calibration:

1. Open the “Control Panel” of the system.
2. Double click the “Touch Panel” icon.
3. Select the item you want to set up and change the setting values.
   Some setting changes are effective only when the system is rebooted.

Planar Systems, Inc.
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Americas Support
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