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**European Union 2002/95/EC Directive on the Restriction of Hazardous Substances (RoHS and the recast Directive 2011/65/EU (referred to as RoHS 2)).**

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). In July 2011 Directive 2011/65/EU entered into force, and provided clarification regarding definitions, assessment methodologies, and exemptions.

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


**Important Recycle Instructions:**

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](http://WWW.EIAE.ORG). For lamp specific disposal information check [WWW.LAMPRECYCLE.ORG](http://WWW.LAMPRECYCLE.ORG). For more information on how to recycle your product, please visit [WWW.PLANAR.COM/GREEN](http://WWW.PLANAR.COM/GREEN).

<table>
<thead>
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<th>DATE</th>
<th>DESCRIPTION</th>
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<td>March 2004</td>
<td>Document number 020-0319-00A</td>
</tr>
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<td>March 2005</td>
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<td>June 2006</td>
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<td>February 2008</td>
<td>Document number 020-0319-02A</td>
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<td>July 2011</td>
<td>Document number 020-0319-03A</td>
</tr>
<tr>
<td>October 2013</td>
<td>Document number 020-0319-04A</td>
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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 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 the 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 LA1500R

The LA15 products all have a 15” flat panel screen with an active matrix, thin-film transistor (TFT) liquid crystal display (LCD).

Features include:

- Direct analog graphics signal input
- Active matrix TFT LCD technology
- 1024 x 768 XGA resolution
- 15” viewable display area
- 31.5 ~ 60.2 kHz horizontal scan
- 56 ~ 75 Hz refresh rate
- 0.297mm x 0.297mm pixel pitch
- 250 cd/m² (typ.) brightness
- 600:1 (typ.) contrast ratio
- L/R=80°/80°, U/D=+80°/-80° viewing angle, CR=10
- Tr+Tf = 8ms (typ.) response time
- 2 Cold Cathode Fluorescent Lamps (CCFL) with 50,000 hrs life
- Auto-adjustment function
- Multilingual OSD user controls
- VESA DPMS power saving
- VESA rear mounting 75mm x 75mm standard
- Operating temperature = 5°C to 35°C
- Storage temperature = -20°C to 60°C
Package Overview

- LCD Display
- Power Adapter
- Power Cord
- VGA Signal Cable
- Landing Strip
- “L” Bracket, 2 pcs
Installation

Product Overview

• Front View

![Front View Diagram]

• Rear View

![Rear View Diagram]

Connector Ports “A”

Connector Ports “B”
• Connector Ports “A”
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. Connect the VGA signal cable from display VGA input connector to the 15-pin VGA connector of your host computer and tighten the screws(2).

4. 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 to less than or equal to 1024 x 768 resolution and make sure 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

<table>
<thead>
<tr>
<th>No./ Icon</th>
<th>Control</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Menu button</td>
<td>Displays the OSD menus.</td>
</tr>
<tr>
<td>2</td>
<td>Select / Auto</td>
<td>Select- To select the adjustment items from OSD menus.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Auto- To activate the “Auto Adjustment” function to obtain an optimum image.</td>
</tr>
<tr>
<td>3</td>
<td>Brightness Minus / Minus</td>
<td>1. Decreases the brightness of the display image.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Decreases value of the adjustment items.</td>
</tr>
<tr>
<td>4</td>
<td>Brightness Plus / Plus</td>
<td>1. Increases the brightness of the display image.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Increases value of the adjustment items.</td>
</tr>
<tr>
<td>5</td>
<td>Power Switch</td>
<td>Switches on/off the power of the LCD display.</td>
</tr>
<tr>
<td>6</td>
<td>Power LED</td>
<td>1. Green indicates the display is turned on.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Amber indicates the display is in power-saving mode.</td>
</tr>
</tbody>
</table>
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 “+” and “-” buttons.

4. The OSD menu will automatically close, if you have left it idle for a pre-set amount of time.
On-Screen Display Menus

Main OSD Menu:

<table>
<thead>
<tr>
<th>Main Menu</th>
<th>Sub Menu</th>
<th>Function Description</th>
<th>Factory Default Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sharpness</td>
<td>1-4</td>
<td>Adjust the sharpness of the image.</td>
<td>3</td>
</tr>
<tr>
<td>Reset</td>
<td>No/Yes</td>
<td>Returns the display parameters of the current mode to its factory default settings.</td>
<td>No</td>
</tr>
<tr>
<td>Color Setting</td>
<td>SRGB / 9300K</td>
<td>Adjusts the color temperature.</td>
<td>6500k</td>
</tr>
<tr>
<td></td>
<td>7200K / 6500K</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5000K / User defined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color Adjustment-Red</td>
<td>0-100</td>
<td>It allows you to adjust the red color of the display.</td>
<td>100</td>
</tr>
<tr>
<td>Color Adjustment-Green</td>
<td>0-100</td>
<td>It allows you to adjust the green color of the display.</td>
<td>100</td>
</tr>
<tr>
<td>Color Adjustment-Blue</td>
<td>0-100</td>
<td>It allows you to adjust the blue color of the display.</td>
<td>100</td>
</tr>
</tbody>
</table>
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 1024 x 768.

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 1024 x 768.

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.

- **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 sleep 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

LA1500R - Front and Side View:

LA1500R Front View

LA1500R Side View
LA1500R - 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.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Resolution</th>
<th>V. Frequency (Hz)</th>
<th>H. Frequency (kHz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM VGA</td>
<td>640 x 350</td>
<td>70</td>
<td>31.5</td>
</tr>
<tr>
<td>IBM VGA</td>
<td>640 x 400</td>
<td>70</td>
<td>31.5</td>
</tr>
<tr>
<td>IBM VGA</td>
<td>720 x 400</td>
<td>70</td>
<td>31.5</td>
</tr>
<tr>
<td>IBM VGA</td>
<td>640 x 480</td>
<td>60</td>
<td>31.5</td>
</tr>
<tr>
<td>VESA VGA</td>
<td>640 x 480</td>
<td>72</td>
<td>37.9</td>
</tr>
<tr>
<td>VESA VGA</td>
<td>640 x 480</td>
<td>75</td>
<td>37.5</td>
</tr>
<tr>
<td>VESA SVGA</td>
<td>800 x 600</td>
<td>56</td>
<td>35.2</td>
</tr>
<tr>
<td>VESA SVGA</td>
<td>800 x 600</td>
<td>60</td>
<td>37.9</td>
</tr>
<tr>
<td>VESA SVGA</td>
<td>800 x 600</td>
<td>72</td>
<td>48.1</td>
</tr>
<tr>
<td>VESA SVGA</td>
<td>800 x 600</td>
<td>75</td>
<td>46.9</td>
</tr>
<tr>
<td>VESA XGA</td>
<td>1024 x 768</td>
<td>60</td>
<td>48.4</td>
</tr>
<tr>
<td>VESA XGA</td>
<td>1024 x 768</td>
<td>70</td>
<td>56.5</td>
</tr>
<tr>
<td>VESA XGA</td>
<td>1024 x 768</td>
<td>75</td>
<td>60.0</td>
</tr>
</tbody>
</table>
Planar Support

Cables and Accessories
To find cables and accessories for your Planar monitor, touch screen or other Planar products visit our online store at www.PlanarOnline.com.

Technical Support
Visit Planar at http://www.planar.com/support for operations manuals, touchscreen drivers, warranty information and access to Planar's Technical Library for online trouble shooting. To speak with Planar Customer Support please have your 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.