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RoHS Compliance Statement
The PS7050/PS7050T and PS8250/PS8250T are fully RoHS compliant.

Part Number: 020-1274-00C
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Introduction

The PS7050/PS7050T and the PS8250/PS8250T are 70” and 82” diagonal commercial-grade LCD displays.

The displays have a native full HD (1920 x 1080) resolution and an aspect ratio of 16:9.

All models are designed for up to 24x7 performance and come standard with a variety of commercial grade features.

The PS7050T and the PS8250T models also incorporate embedded interactive touch supporting up to 10 touch points and a wide range of operating systems.

**Caution:** This manual is intended for use by qualified service persons and end users with experience installing LCD displays.
Safety Information

This display was designed with safety in mind. If you don't heed the safety warnings and cautions, you could get hurt. The safety warnings are on stickers in various places in and on the display.

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use any of the Planar LCD products near water.
6. Clean the LCD screens with an LCD screen cleaner or LCD wipes.
7. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
8. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for the replacement of the obsolete outlet.
9. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles and the point where they exit from any of the Planar LCD products.
10. Only use the attachments/accessories specified by the manufacturer.
11. Unplug all Planar LCD displays during lightning storms or when unused for long periods of time.
12. You must follow all National Electrical Code regulations. In addition, be aware of local codes and ordinances when installing your system.
13. Refer all servicing to qualified service personnel. Servicing is required when any of the displays have been damaged in any way. For example, if the AC power cord or plug is damaged, liquid has been spilled or objects have fallen into a display, the displays have been exposed to rain or moisture, do not operate normally or have been dropped.
14 Keep the packing material in case the equipment should ever need to be shipped.

15 Wall mounts must be secure. The wall must be strong enough to hold all displays, mounts, brackets and cables.

16 Slight pressure on the LCD will cause distortion of the image. Heavier pressure will cause permanent damage. Displays should be mounted in a way that viewers cannot insert small objects in the openings that will create hazards by contacting bare conductive parts.

17 The front polarizer is soft and subject to scratches from sharp objects. The polarizer is a thin sheet of film laminated to the outside layer of glass on the LCD screen. Take care when handling items near the screen.
Recommended Usage

In order to get the most out of your LCD, use the following recommended guidelines to optimize the display.

Burn-In Versus Temporary Image Retention

Burn-in causes the screen to retain an image essentially forever, with little or no way to correct the problem. Under normal use, an LCD will not experience burn-in, as plasma displays do, nor will it retain images in any way.

Normal use of an LCD is defined as displaying continuously changing video patterns or images. However, LCDs can experience temporary image retention when recommended usage guidelines are not followed.

What is Temporary Image Retention?

Temporary image retention (TIR) can occur when a static image is displayed continuously for extended periods of time (12 hours or longer). An electrical charge differential may build up between the electrodes of the liquid crystal, which causes a negative-color video image (color-inverted and brightness-inverted version of the previous image) to be retained when a new image is displayed. This behavior is true for any LCD device from any LCD manufacturer.

TIR is not covered under warranty. See standard warranty terms and conditions for details. Here are some guidelines to help you avoid TIR:

- Use the LCD to show a screen saver, moving images or still pictures that change regularly. When using high-contrast images, reposition the images frequently.
- Turn off the LCD when it is not in use. To use your source computer’s Power Options Properties, set up your computer to turn off the display when not in use.

Caution: For optimal performance, we suggest turning off the backlight power on the display for six hours per day.

Normal Usage Guidelines

Normal use of the LCD is defined as operating in the open air to prevent heat buildup, and without direct or indirect heat sources such as lighting fixtures, heating ducts, or direct sunlight that can cause the modules to experience high operating temperatures. For all modules, do not block fans or ventilation openings. If the LCD module will be installed in a recessed area with an LCD surround or enclosure, ensure adequate openings are applied for proper air flow and ventilation.

At 2000 meters or below, the maximum ambient operating temperature for the LCD module cannot be above 50°C nor below the minimum ambient operating temperature of 0°C. If one of these conditions exists, it is up to the installer to ensure that placement is changed, thermal shielding is provided and/or additional ventilation is provided to keep the display within its nominal operating parameters.
Cooling Requirements

For optimal performance, active cooling by the installer should be planned for when the ambient temperature anywhere in the wall is predicted to be above the specified ambient temperature for the display.

**VESA Mounts, General Description**

VESA mounts are used to secure the PS7050/PS7050T and the PS8250/PS8250T for display. The displays can be installed using a variety of VESA mounts available through Planar. If you do not have a VESA mount and would like to purchase one, contact Planar.

If you purchased a VESA mount, you should have received a separate box with mounting supplies and an Installation manual. Follow these instructions carefully.

Keep in mind the following general installation guidelines:

- Screw length is crucial and will vary depending on the type of mount you use. Total screw length will include the penetration length plus the length required by the type of VESA mount in use.

**Caution:** Shorter screws will result in insufficient mounting strength and longer screws could puncture parts inside the display. Prior to installation, make sure you know where all of the mounting points are located. Follow all safety precautions outlined in the VESA Mount Installation manual.

**Cleaning the Display**

If dust has collected on the power plug, removed the plug from the outlet and clean off the dust. Dust build-up may cause a fire.

Remove the power plug before cleaning. Failure to do so may result in electrical shock or damage.

Keep the following points in mind when cleaning the surface of the display:

- When the surface of the display becomes dirty, wipe the surface lightly with a soft clean cloth.
- If the surface requires additional cleaning, use LCD screen cleaner or LCD wipes, which are available at most electronics stores.
- Do not let cleaner seep into the display, as it may cause electrical shock or damage.
# Package Contents

## Unpacking the Display

The display is packed in a cardboard box. The display is packed using foam to protect it during shipping. Before unpacking the display, prepare a stable, level and clean surface near a wall outlet.

Place the LCD panel box in an upright position. Remove the entire top of the box and the top shipping foam.

## Contents of the Accessory Kit

<table>
<thead>
<tr>
<th>Part</th>
<th>Picture</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote control with 2 batteries</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Power cord, 1.8 meters</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>VGA cable (D-sub), 1.8 meters</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Keypad cover and screws for mounting</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Quick start guide</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>USB cable (A to B), 1.8 meters</td>
<td></td>
<td>1 (PS7050T and PS8250T only)</td>
</tr>
</tbody>
</table>
Installing the Display

This section explains how to install a display.

Before You Begin

Make sure you have all the items in these lists before you begin unpacking and installing your displays.

Tools/Equipment List

Depending on your installation, you may need one or more of the following items:

- String/string level
- Digital/laser level
- Ladders/lift
- Back brace
- Stud finder (if hanging display on a wall)

Other Things You May Need

- LCD screen cleaner or LCD wipes - available at most electronics stores
- At least two very strong people to help lift units into place

Plan Your Installation

You should have a detailed plan of how the units are to be configured. The plan should include calculations for the following:

- Power
- Cable runs
- Ventilation and cooling requirements
- If hanging display on a wall, location of studs in the wall

Prepare Your Installation Location

You should have prepared the area where you will install the unit. If custom enclosures are part of the installation, they must be fully designed to accommodate the installation of the displays, as well as the installed unit and ventilation and cooling requirements.

If your installation included a lot of construction or dust, it is highly recommended that you clean all of the screens after the wall installation and configuration are complete.
## Signal Source Inputs

### Table of Signal Source Inputs

<table>
<thead>
<tr>
<th>Label</th>
<th>Connector</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>USB</td>
<td>USB 2.0</td>
<td>USB playback and firmware updates</td>
</tr>
<tr>
<td>DisplayPort</td>
<td>DisplayPort</td>
<td></td>
</tr>
<tr>
<td>HDMI 1</td>
<td>HDMI</td>
<td></td>
</tr>
<tr>
<td>HDMI 2</td>
<td>HDMI</td>
<td></td>
</tr>
<tr>
<td>PC RGB</td>
<td>D-Sub 15 pin</td>
<td>VGA</td>
</tr>
<tr>
<td>PC Audio In</td>
<td>3.5mm jack</td>
<td></td>
</tr>
<tr>
<td>Video</td>
<td>RCA, RCA L/R</td>
<td>Composite video and audio</td>
</tr>
<tr>
<td>Audio Out</td>
<td>3.5mm jack</td>
<td></td>
</tr>
<tr>
<td>SPDIF Out</td>
<td>TOSLINK jack</td>
<td>Optical audio</td>
</tr>
<tr>
<td>Touch</td>
<td>USB Type B</td>
<td>PS7050T and PS8250T only</td>
</tr>
<tr>
<td>Component</td>
<td>RCA G/B/R, RCA L/R</td>
<td>Video and audio</td>
</tr>
<tr>
<td>Serial</td>
<td>D-Sub 9 pin</td>
<td>RS-232</td>
</tr>
<tr>
<td>Power</td>
<td>AC power input</td>
<td></td>
</tr>
</tbody>
</table>
Operating the Display

OSD Keypad

The OSD keypad is located on the bottom rear of the display.

<table>
<thead>
<tr>
<th>Key</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>POWER</td>
<td>Use this button for Power On / Off</td>
</tr>
<tr>
<td>UP</td>
<td>Move menu up / Change menu mode</td>
</tr>
<tr>
<td>DOWN</td>
<td>Move menu down</td>
</tr>
<tr>
<td>VOL +</td>
<td>Volume Up/ Move Menu Bottom / Menu Value Increase</td>
</tr>
<tr>
<td>VOL -</td>
<td>Volume Down / Move Menu Top / Menu Value Decrease</td>
</tr>
<tr>
<td>MENU</td>
<td>Menu Mode Active / Menu Mode Close / Move Top</td>
</tr>
<tr>
<td>INPUT</td>
<td>Select the input signal</td>
</tr>
</tbody>
</table>

To lock the keypad, press the “Down” and “Vol+“ buttons together for 7 seconds. Repeat the process to unlock the keypad.

A cover is included in the accessory kit that can be attached with the included screws over the keys to prevent key presses.
Remote Control

Below is a picture of the remote control and a description of the functions supported.

0 Function
Not defined

1 PC
Selects the PC RGB input

2 HDMI
Selects the HDMI1, HDMI2, or DisplayPort input

3 Number buttons
Not defined

4 -
Not defined

5 Volume
Adjust level of internal speakers or Audio Output

6 Menu
Enters/exits the On Screen Display menu

7 Up-Down Left-Right buttons OK
Navigate the OSD; select items with OK

8 INFO
Identify the source type and input resolution

9 Auto
PC RGB only: Do image adjust
STILL
Display present content only
P.MODE
No function
S.MODE
No function

10 Multi Media
Selects the USB input

11 POWER
Turns the display on/off

12 VIDEO
Selects Component or Video input

13 CH
Not defined

13 SLEEP
Select time before power off

14 P.Size
Selects Aspect Ratio

16 Mute
Disable/enable audio

17 INPUT
Invoke menu to select input source

13 EXIT
Close on screen window

19 COLOR Button
Not defined

20 Media Play
USB Media Player control

21 Function
Not defined

22 F1 OSD Lock
Hold 10 seconds for remote lock/unlock
The Hex codes are shown below:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>POWER</td>
<td>00 FF 8A 75</td>
<td>26</td>
<td>□</td>
<td>00 FF C7 38</td>
</tr>
<tr>
<td>2</td>
<td>PC</td>
<td>00 FF 8E 71</td>
<td>27</td>
<td>HDMI</td>
<td>00 FF 9E 61</td>
</tr>
<tr>
<td>3</td>
<td>VIDEO</td>
<td>00 FF 90 6F</td>
<td>28</td>
<td>1</td>
<td>00 FF 81 7E</td>
</tr>
<tr>
<td>4</td>
<td>MEDIA</td>
<td>00 FF 96 69</td>
<td>29</td>
<td>3</td>
<td>00 FF 83 7C</td>
</tr>
<tr>
<td>5</td>
<td>2</td>
<td>00 FF 82 7D</td>
<td>30</td>
<td>5</td>
<td>00 FF 85 7A</td>
</tr>
<tr>
<td>6</td>
<td>4</td>
<td>00 FF 84 7B</td>
<td>31</td>
<td>7</td>
<td>00 FF 87 78</td>
</tr>
<tr>
<td>7</td>
<td>6</td>
<td>00 FF 86 7A</td>
<td>32</td>
<td>9</td>
<td>00 FF 89 76</td>
</tr>
<tr>
<td>8</td>
<td>8</td>
<td>00 FF 88 77</td>
<td>33</td>
<td>-</td>
<td>00 FF 98 67</td>
</tr>
<tr>
<td>9</td>
<td>0</td>
<td>00 FF 80 7F</td>
<td>34</td>
<td>VOL-</td>
<td>00 FF C0 3F</td>
</tr>
<tr>
<td>10</td>
<td>VOL +</td>
<td>00 FF 8B 74</td>
<td>35</td>
<td>P.SIZE</td>
<td>00 FF 8F 70</td>
</tr>
<tr>
<td>11</td>
<td>SLEEP</td>
<td>00 FF C2 3D</td>
<td>36</td>
<td>CH+</td>
<td>00 FF CC 33</td>
</tr>
<tr>
<td>12</td>
<td>MUTE</td>
<td>00 FF 97 68</td>
<td>37</td>
<td>MENU</td>
<td>00 FF 8C 73</td>
</tr>
<tr>
<td>13</td>
<td>CH-</td>
<td>00 FF DC 23</td>
<td>38</td>
<td>UP</td>
<td>00 FF 91 6E</td>
</tr>
<tr>
<td>14</td>
<td>INPUT</td>
<td>00 FF 9F 60</td>
<td>39</td>
<td>Right</td>
<td>00 FF 93 6C</td>
</tr>
<tr>
<td>15</td>
<td>Left</td>
<td>00 FF 92 6D</td>
<td>40</td>
<td>OK</td>
<td>00 FF 95 6A</td>
</tr>
<tr>
<td>16</td>
<td>Down</td>
<td>00 FF 94 6B</td>
<td>41</td>
<td>EXIT</td>
<td>00 FF BD 72</td>
</tr>
<tr>
<td>17</td>
<td>INFO.</td>
<td>00 FF C1 3E</td>
<td>42</td>
<td>GREEN</td>
<td>00 FF 9A 65</td>
</tr>
<tr>
<td>18</td>
<td>RED</td>
<td>00 FF 99 66</td>
<td>43</td>
<td>BLUE</td>
<td>00 FF 9C 63</td>
</tr>
<tr>
<td>19</td>
<td>YELLOW</td>
<td>00 FF 9B 64</td>
<td>44</td>
<td>STILL</td>
<td>00 FF C5 3A</td>
</tr>
<tr>
<td>20</td>
<td>AUTO</td>
<td>00 FF C6 39</td>
<td>45</td>
<td>S.MODE</td>
<td>00 FF C3 3C</td>
</tr>
<tr>
<td>21</td>
<td>P.MODE</td>
<td>00 FF C4 3B</td>
<td>46</td>
<td>◄◄</td>
<td>00 FF CA 35</td>
</tr>
<tr>
<td>22</td>
<td>►►</td>
<td>00 FF D6 29</td>
<td>47</td>
<td>■</td>
<td>00 FF DE 21</td>
</tr>
<tr>
<td>23</td>
<td>►▌</td>
<td>00 FF CE 31</td>
<td>48</td>
<td>◄◄◄</td>
<td>00 FF DD 22</td>
</tr>
<tr>
<td>24</td>
<td>►►▌</td>
<td>00 FF DF 20</td>
<td>49</td>
<td>F2</td>
<td>00 FF CF 30</td>
</tr>
<tr>
<td>25</td>
<td>F1</td>
<td>00 FF 9D 62</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Locking the Remote

To lock and unlock the remote control, hold the F1 button down for 10 seconds.

IR Sensor and LED Indicators

The IR sensor is located on the bottom right side of the front bezel. To operate the remote control, point the remote directly at the IR sensor. Make sure the batteries are installed in the remote before operation.

The LED indicator light is located in the IR sensor window. The following table explains the condition for each of the indicators.

<table>
<thead>
<tr>
<th>LED Status</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green</td>
<td>Display turned on but no input detected</td>
</tr>
<tr>
<td>Red</td>
<td>Display turned off</td>
</tr>
<tr>
<td>Off</td>
<td>Display turned on and input detected</td>
</tr>
</tbody>
</table>

Using the Display in Portrait Mode

When looking at the rear of the display in landscape orientation, rotate the display counter-clockwise for portrait orientation. This will allow for proper ventilation. The directional indicator is located on the bottom of the product rating label for reference.

Caution: Improper ventilation may shorten the life of the display.

Using the Display in Flat or Tilted Orientation

The display is not recommended for use in flat orientation for tabletop, floor, or ceiling installations. LCD panels of this size are at risk of panel deflection, which can cause cosmetic sagging, brightness uniformity issues, a shortened life span, and malfunction of optional touch sensors. Installations where the display is tilted downward or upward at an angle may also be prone to these issues and are not recommended.

Turning the Display On

1. Insert the power cord into the display and the power outlet.
2. Press the power button on the remote or keypad.
Turning the Display Off

With the power on, press the power button on the remote or keypad to put the LCD panel in a standby mode. To turn off power completely, disconnect the AC power cord from the power outlet.

**Note:** If there is no signal for a 10 minutes on a HDMI, DisplayPort, or Component signal or 1 minute on a VGA signal and the Auto Sleep OSD setting is set to On, the LCD panel will automatically go into standby mode.

Selecting the Input Source

Input sources must be selected manually. Below are the ways you can select the input source:

1. Press the Input button on the remote control to activate the input onscreen menu. Use the arrow buttons to select the desired input source and press OK.

2. Using the remote control, select PC RGB, HDMI, or Video source to select your source. If desired source is not selected, press multiple times to toggle through the input options.
OSD Menu Functions

Press the MENU button on the remote or the keypad to activate the OSD.

Use the UP/DOWN/VOL+/VOL- buttons on the keypad or the UP/DOWN/LEFT/RIGHT buttons on the remote to navigate through the OSD submenus. The first menu to appear is the Picture Menu.

Picture Menu

<table>
<thead>
<tr>
<th>Item</th>
<th>Selection Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Picture Settings</td>
<td>Brightness, contrast, tint, color, &amp; sharpness: 0-100</td>
</tr>
<tr>
<td>Color Temperature</td>
<td>6500K/9300K/11000K/User</td>
</tr>
<tr>
<td>Aspect Ratio</td>
<td>4:3/16:9/Zoom 1/Zoom 2</td>
</tr>
<tr>
<td>Noise Reduction</td>
<td>Off/Low/Middle/High</td>
</tr>
<tr>
<td>Screen (PC RGB only)</td>
<td>Auto Adjust: When selected, the image will be auto adjusted</td>
</tr>
<tr>
<td></td>
<td>Hor Pos, Vert Pos, Size, and Phase: 0-100</td>
</tr>
<tr>
<td>Backlight</td>
<td>0-100</td>
</tr>
<tr>
<td>Color Range</td>
<td>16-235, 0-255</td>
</tr>
<tr>
<td>DMP Option (USB only)</td>
<td>Auto play: On/off</td>
</tr>
<tr>
<td></td>
<td>Show effect: Select from various slide show transition effects</td>
</tr>
<tr>
<td></td>
<td>Slide time: 0-255 sec</td>
</tr>
</tbody>
</table>
Sound Menu

<table>
<thead>
<tr>
<th>Item</th>
<th>Selection Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sound Setting</td>
<td>Treble and bass: 0-64</td>
</tr>
<tr>
<td>Balance</td>
<td>-50 to 50</td>
</tr>
<tr>
<td>Auto Volume</td>
<td>On/off</td>
</tr>
<tr>
<td>Surround Sound</td>
<td>Off/Surround/SRS</td>
</tr>
<tr>
<td>SPDIF Mode</td>
<td>Auto/PCM</td>
</tr>
<tr>
<td>EQ</td>
<td>120Hz, 500Hz, 1.5KHz, 10KHz: 0-64</td>
</tr>
</tbody>
</table>
### Option Menu

<table>
<thead>
<tr>
<th>Item</th>
<th>Selection Options</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OSD Language</strong></td>
<td>English, French, German, Spanish, Chinese +18 other language options</td>
</tr>
<tr>
<td><strong>Restore Factory Default</strong></td>
<td>Yes/No</td>
</tr>
<tr>
<td><strong>OSD Transparency</strong></td>
<td>Off/Low/Middle/High</td>
</tr>
<tr>
<td><strong>OSD Duration</strong></td>
<td>5 sec/10 sec/15 sec/20 sec/off</td>
</tr>
<tr>
<td><strong>Software Update</strong></td>
<td>Yes/No</td>
</tr>
<tr>
<td><strong>Firmware Version</strong></td>
<td>Version will display if selected</td>
</tr>
</tbody>
</table>
## Time Menu

<table>
<thead>
<tr>
<th>Item</th>
<th>Selection Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clock</td>
<td>Date/Month/Year/Hour/Minute</td>
</tr>
<tr>
<td>Off Time</td>
<td>Off/Once/Every Day/Mon-Fri/Mon-Sat/Sat-Sun/Sunday/ Hour/Minute</td>
</tr>
<tr>
<td>On Time</td>
<td>Off/Once/Every Day/Mon-Fri/Mon-Sat/Sat-Sun/Sunday/ Hour/Minute/Source/Volume</td>
</tr>
<tr>
<td>Sleep Timer</td>
<td>Off/10 min/20 min/30 min/ 60 min/ 90 min/ 120 min/ 180 min/ 240 min</td>
</tr>
<tr>
<td>Auto Sleep</td>
<td>On/Off</td>
</tr>
</tbody>
</table>
Playing Media Files

This display can play video, image, music, and text files from your USB device. Connect your USB device to the USB port on the display. Select USB in the Input menu to activate the USB Media Menu.

<table>
<thead>
<tr>
<th>Item</th>
<th>Selection Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photo</td>
<td>Select to play image files. Supported files: .jpeg, .bmp, .png</td>
</tr>
<tr>
<td>Music</td>
<td>Select to play audio files. Supported files: .aac, .mp3, .ogg, .pcm, .wav</td>
</tr>
<tr>
<td>Movie</td>
<td>Select to play video files. Supported files: .avi, .mkv, .mov, .mpg, .mp4 Video codecs supported (max resolution 1020x1080, 30 fps): MPEG1, MPEG2, MPEG4, H264, XVID</td>
</tr>
<tr>
<td>Text</td>
<td>Select to play text files. Supported files: .txt</td>
</tr>
</tbody>
</table>

1. This menu appears only if Auto Play is set to “off” in the Picture Menu under DMP option or if no media files are in the root folder.

2. The remote is required to operate the USB playback functionality unless Auto Play is set to “on”.

PS7050/PS7050T and PS8250/PS8250T User Guide
Playing Videos

If you are in Auto Play mode (see page 20), the video will automatically play and the menu will not appear. To stop playback when Auto Play is set to “On”, press the Stop or Exit button on the remote. To change the Auto Play setting in the OSD, select any input other than USB.

To view video files, select “Movie”. Use the UP/DOWN/LEFT/RIGHT buttons on the remote to navigate through the thumbnail images of the video files on the USB. A preview of the video will show if a file is highlighted.

To play a video or set of videos, push the OK button on the remote to select the videos you wish to play. A red check mark will show once the file is selected. Once you have selected your playlist, press the ▶ button on the remote.

Caution: Pressing the red button on the remote when viewing thumbnail files will take you to a submenu that will delete files from the USB.

To stop the video, you can press the ■ button.

Pressing the “OK” or “INFO” buttons on the remote while a video is playing will activate the media menu bar at the bottom of the screen.

Scroll to highlight the desired selection and to view additional icons.
Media Menu Bar When Videos are Playing

Press the OK button on the remote to enable each function.

<table>
<thead>
<tr>
<th>Item</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Play/Pause</td>
<td>Press OK when “Play” is showing to play the video. Press OK when “Pause” is showing to pause the video.</td>
</tr>
<tr>
<td>FB</td>
<td>Rewind the video. Each press of the OK button increases the speed.</td>
</tr>
<tr>
<td>FF</td>
<td>Fast forward the video. Each press of the OK button increases the speed.</td>
</tr>
<tr>
<td>Prev</td>
<td>Go to the previous video in the playlist.</td>
</tr>
<tr>
<td>Next</td>
<td>Go to the next video in the playlist.</td>
</tr>
<tr>
<td>Stop</td>
<td>Stop the video and go back to the playlist menu with the thumbnail images.</td>
</tr>
</tbody>
</table>
| R_ALL/Random/R_None/R_One | Press the OK button to rotate between 4 different looping options:  
• R_ALL: Loops videos in alphabetical order  
• Random: Loops videos in random order  
• R_None: Plays the current video once and then goes to then returns to the playlist menu with the thumbnail images  
• R_One: Loops the current video |
| Set A/Set B/None | Not functional |
| Playlist | List the files in the selected play loop |
| Info | List details on file playing, such as resolution, file size, and file date |
| Slow F | Enable slow motion. Each press of the OK button reduces the speed. |
| Step F | View one frame at a time. |
| Goto T | Activate an input search time box which enables you to select and go to a specific point on the video |
| Zoom In | Zooms in (Note: Not always supported) |
| Zoom Out | Zooms out (Note: Not always supported) |
| Aspect | Changes image shown from 16:9 to 4:3 (Note: Not always supported) |

Press the down arrow button on the remote to exit the Media Menu Bar. If you press the Exit button on the remote, it will take you back to the playlist menu.
Playing Image Files

If you are in Auto Play mode (see page 20), the image will automatically display and the menu will not appear. To stop playback when Auto Play is set to “On”, press the Stop or Exit button on the remote. To change the Auto Play setting in the OSD, select any input other than USB.

To view image files, select “Photo”. Use the UP/DOWN/LEFT/RIGHT buttons on the remote to navigate through the thumbnail images of the image files on the USB.

To play a slideshow of images, push the OK button on the remote to select the images you wish to show. A red check mark will show once the file is selected. Once you have selected your playlist, press the ► button on the remote.

**Caution:** Pressing the red button on the remote when viewing thumbnail files will take you to a submenu that will delete files from the USB.

To stop the slideshow, you can press the ■ button.

Pressing the “OK” or “INFO” buttons on the remote while a slideshow is playing will activate the media menu bar at the bottom of the screen.

Scroll to highlight the desired selection and to view additional icons.
Media Menu Bar When Image Slideshows are Playing

Press the OK button on the remote to enable each function.

<table>
<thead>
<tr>
<th>Item</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Play/Pause</td>
<td>Press OK when “Play” is showing to play the slideshow. Press OK when “Pause” is showing to pause the slideshow.</td>
</tr>
<tr>
<td>Prev</td>
<td>Go to the previous image in the playlist.</td>
</tr>
<tr>
<td>Next</td>
<td>Go to the next image in the playlist.</td>
</tr>
<tr>
<td>Stop</td>
<td>Stop the slideshow and go back to the playlist menu with the thumbnail images.</td>
</tr>
<tr>
<td>R_ALL/Random/R_None/R_One</td>
<td>Press the OK button to rotate between 4 different looping options.</td>
</tr>
<tr>
<td></td>
<td>• R_ALL: Loops images in alphabetical order</td>
</tr>
<tr>
<td></td>
<td>• Random: Loops images in random order</td>
</tr>
<tr>
<td></td>
<td>• R_None: Plays the current image once and then goes to then returns to the playlist menu with the thumbnail images</td>
</tr>
<tr>
<td></td>
<td>• R_One: Loops the current image</td>
</tr>
<tr>
<td>Music</td>
<td>Not functional</td>
</tr>
<tr>
<td>Playlist</td>
<td>List the files in the selected play loop</td>
</tr>
<tr>
<td>Info</td>
<td>List details on file showing, such as resolution, file size, and file date</td>
</tr>
<tr>
<td>Rotate Clockwise</td>
<td>Rotates the image clockwise. Note: The image aspect ratio does not change. Portrait content will need to be rotated in the file itself.</td>
</tr>
<tr>
<td>Rotate Counter-clockwise</td>
<td>Rotates the image counter-clockwise. Note: The image aspect ratio does not change. Portrait content will need to be rotated in the file itself.</td>
</tr>
<tr>
<td>Zoom In</td>
<td>Zooms in (Note: Not always supported)</td>
</tr>
<tr>
<td>Zoom Out</td>
<td>Zooms out (Note: Not always supported)</td>
</tr>
<tr>
<td>Move</td>
<td>Moves the image around the screen if the image is zoomed in.</td>
</tr>
</tbody>
</table>

Press the down arrow button on the remote to exit the Media Menu Bar. If you press the Exit button on the remote, it will take you back to the playlist menu.

Slide show duration and transition is selected in the main menu. Click Menu on the remote to access. Go to DMP OPTION (see page 20).
RS232 Communication

RS232 control is not necessary for operation, but it is a convenient way to control displays from a computer at a distance. If your installation will not use RS232 control, you can skip this section. Most of the operations you can do with the remote, you can do with RS232 commands. Plus, you can send inquiries to the displays and find out the current settings and values. RS232 connections are made with standard straight through cables.

Connecting the RS232 Cable

The RS232 cable will connect to a PC or control system, depending on your setup.

RS232 Commands

The following table provides the RS232 commands that can be used.

The required serial port settings are:
Baud rate = 38400; Data bits = 8; Stop bits = 1; Parity = no

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Code [HEX]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Off</td>
<td>Turn display power off</td>
<td>69 76 20</td>
</tr>
<tr>
<td>Power On</td>
<td>Turn display power on</td>
<td>69 A7 EF</td>
</tr>
<tr>
<td>HDMI1</td>
<td>Set the selected input to HDMI1</td>
<td>69 A1 F5</td>
</tr>
<tr>
<td>HDMI2</td>
<td>Set the selected input to HDMI2</td>
<td>69 A2 F4</td>
</tr>
<tr>
<td>DP</td>
<td>Set the selected input to DisplayPort</td>
<td>69 A3 F3</td>
</tr>
<tr>
<td>USB</td>
<td>Set the selected input to USB</td>
<td>69 A6 F0</td>
</tr>
<tr>
<td>PC</td>
<td>Set the selected input to PC RGB</td>
<td>69 A0 F6</td>
</tr>
<tr>
<td>Component</td>
<td>Set the selected input to Component</td>
<td>69 A5 F1</td>
</tr>
<tr>
<td>AV</td>
<td>Set the selected input to Composite</td>
<td>69 A4 F2</td>
</tr>
<tr>
<td>VOL UP</td>
<td>Increment the speaker volume</td>
<td>69 C2 D4</td>
</tr>
<tr>
<td>VOL DOWN</td>
<td>Decrement the speaker volume</td>
<td>69 C3 D3</td>
</tr>
<tr>
<td>Get Power Status</td>
<td>Returns in ASCII either “Power on” or “Power off”</td>
<td>FF 04 01 00</td>
</tr>
<tr>
<td>Get Input Selected</td>
<td>Returns “HDMI1”, “HDMI2”, “DP”, “PC-RGB”, “Media mode”, “Component”, “AV”, or nothing if off</td>
<td>FF 04 02 00</td>
</tr>
<tr>
<td>Get Input Status</td>
<td>Returns “Support” if source is detected; “No signal” if no source detected; nothing if off</td>
<td>FF 04 03 00</td>
</tr>
<tr>
<td>Set Volume to “X”</td>
<td>For example, xx = 32 to set Volume to 50</td>
<td>FF 04 04 xx</td>
</tr>
<tr>
<td>Get Volume</td>
<td>Returns “Volume = xx” where xx is 0 to 100</td>
<td>FF 04 05 00</td>
</tr>
<tr>
<td>Set Mute to “X”</td>
<td>01 = Mute; 02 is Unmute</td>
<td>FF 04 06 01/02</td>
</tr>
<tr>
<td>Get Mute</td>
<td>Returns “Unmute” or “Mute”</td>
<td>FF 04 07 00</td>
</tr>
</tbody>
</table>
**Set Contrast to “X”**
For example, xx = 30 to set Contrast to 48

**Get Contrast**
Returns “Contrast = xx” where xx is 0 to 100

**Set Brightness to “X”**
For example, xx = 34 to set Brightness to 52

**Get Brightness**
Returns “Brightness = xx” where xx is 0 to 100

**Set Color to “X”**
For example, xx = 32 to set Color to 50

**Get Color**
Returns “Color = xx” where xx is 0 to 100

**Set Color Temp to “X”**
00 is 11000; 01 is 9300; 02 is 6500; 03 is User

**Get Color Temp**
Returns “Color temp is” and then “11000k”, “9300k”, “6500k”, or “User setting”

**Set Sharpness to “X”**
For example, xx = 32 to set Sharpness to 50

**Get Sharpness**
Returns “Sharpness = xx” where xx is 0 to 100

**Set Backlight to “X”**
For example, xx = 32 to set Backlight to 50

**Get Backlight**
Returns “Brightness = xx” where xx is 0 to 100

**Set Color Range to “X”**
“01” is limited range input (16-235), “02” is full range input (0-255)

**Get Color Range**
Returns “Color range is” and then “0-255” or “16-255” (Note: The 16-255 response contains a typo; this should be 16-235.)

**Set USB Slide Time to “X”**
For slide show, sets the duration for each image: 01 is 1 sec; 02 is 2 sec; 03 is 3 sec; and so on. 0A = 10 sec, FF = 255 sec

**Get USB Slide Time**
Returns “slide time = x” where x is in seconds

**Get Firmware Version**
Returns “Firmware Version is x.x”

**Restore Factory Default**
Restores all settings to factory defaults

**Get Clock**
Returns the present time and date: “1 - 1 - 2014 00:03”

**Get Off Time**
Returns the time at which the display is scheduled to turn off. For example, “04:03” (hour and minute)

**Get Off Time Settings**
Returns the frequency of the off scheduling. For example, “Once”, “Every day”, and so on

**Get On Time**
Returns the time at which the display is scheduled to turn on. For example, “04:03” (hour and minute)

**Get On Time Settings**
Returns the frequency of the on scheduling. For example, “Once”, “Every day”, and so on

**Set Sleep Timer to “X”**
Set the duration until the display automatically turns off: 0 = never, 1 = 10 min, 2 = 20 min, 3=30, 4=60, 5=90, 6=120, 7=180, 8=240 min

**Get Sleep Timer**
Returns the sleep timer settings. For example, “240 Min”

---

**Item** | **Description** | **Code [HEX]**
---|---|---
Set Contrast to “X” | For example, xx = 30 to set Contrast to 48 | FF 04 08 32
Get Contrast | Returns “Contrast = xx” where xx is 0 to 100 | FF 04 09 00
Set Brightness to “X” | For example, xx = 34 to set Brightness to 52 | FF 04 0A 32
Get Brightness | Returns “Brightness = xx” where xx is 0 to 100 | FF 04 0B 00
Set Color to “X” | For example, xx = 32 to set Color to 50 | FF 04 0C 32
Get Color | Returns “Color = xx” where xx is 0 to 100 | FF 04 0D 00
Set Color Temp to “X” | 00 is 11000; 01 is 9300; 02 is 6500; 03 is User | FF 04 0E 00/01/02
Get Color Temp | Returns “Color temp is” and then “11000k”, “9300k”, “6500k”, or “User setting” | FF 04 0F 00
Set Sharpness to “X” | For example, xx = 32 to set Sharpness to 50 | FF 04 10 32
Get Sharpness | Returns “Sharpness = xx” where xx is 0 to 100 | FF 04 11 00
Get Aspect Ratio | Returns “16x9”, “4x3”; “Zoom1”, or “Zoom2” | FF 04 13 00
Set Backlight to “X” | For example, xx = 32 to set Backlight to 50 | FF 04 14 32
Get Backlight | Returns “Brightness = xx” where xx is 0 to 100 | FF 04 15 00
Set Color Range to “X” | “01” is limited range input (16-235), “02” is full range input (0-255) | FF 04 16 01/02
Get Color Range | Returns “Color range is” and then “0-255” or “16-255” (Note: The 16-255 response contains a typo; this should be 16-235.) | FF 04 17 00
Set USB Slide Time to “X” | For slide show, sets the duration for each image: 01 is 1 sec; 02 is 2 sec; 03 is 3 sec; and so on. 0A = 10 sec, FF = 255 sec | FF 04 18 XX
Get USB Slide Time | Returns “slide time = x” where x is in seconds | FF 04 19 00
Get Firmware Version | Returns “Firmware Version is x.x” | FF 04 1A 00
Restore Factory Default | Restores all settings to factory defaults | FF 04 1B 00
Get Clock | Returns the present time and date: “1 - 1 - 2014 00:03” | FF 04 1D 00
Get Off Time | Returns the time at which the display is scheduled to turn off. For example, “04:03” (hour and minute) | FF 04 1F 00
Get Off Time Settings | Returns the frequency of the off scheduling. For example, “Once”, “Every day”, and so on | FF 04 21 00
Get On Time | Returns the time at which the display is scheduled to turn on. For example, “04:03” (hour and minute) | FF 04 23 00
Get On Time Settings | Returns the frequency of the on scheduling. For example, “Once”, “Every day”, and so on | FF 04 25 00
Set Sleep Timer to “X” | Set the duration until the display automatically turns off: 0 = never, 1 = 10 min, 2 = 20 min, 3=30, 4=60, 5=90, 6=120, 7=180, 8=240 min | FF 04 26 0X
Get Sleep Timer | Returns the sleep timer settings. For example, “240 Min” | FF 04 27 00
### RS232 Commands

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Code [HEX]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Set Lock to “X”</td>
<td>“01” is lock out both the keypad and the IR remote; “02” is unlock</td>
<td>FF 04 2A 01/02</td>
</tr>
<tr>
<td>Get Lock Status</td>
<td>Returns “lock” or “unlock”</td>
<td>FF 04 2B 00</td>
</tr>
<tr>
<td>INPUT</td>
<td>Open the source selection OSD / move down in source selection menu</td>
<td>69 90 06</td>
</tr>
<tr>
<td>MENU</td>
<td>Open or close the main OSD or move back one submenu level</td>
<td>69 73 23</td>
</tr>
<tr>
<td>LEFT</td>
<td>Navigate left in OSD or decrease selected value</td>
<td>69 72 24</td>
</tr>
<tr>
<td>RIGHT</td>
<td>Navigate right in OSD or increase selected value</td>
<td>69 74 22</td>
</tr>
<tr>
<td>DOWN</td>
<td>Open Picture Settings OSD or navigate down in OSD</td>
<td>69 83 13</td>
</tr>
<tr>
<td>UP</td>
<td>Navigate up in OSD</td>
<td>69 63 33</td>
</tr>
<tr>
<td>OK</td>
<td>Select the highlighted item</td>
<td>69 96 00</td>
</tr>
<tr>
<td>EXIT</td>
<td>Exit the menu</td>
<td>69 84 12</td>
</tr>
</tbody>
</table>

Note: If RS232 commands do not function properly, contact Planar Technical Support to receive instructions for updating firmware.
### Touch Screen Operation

To use the integrated touch capabilities of the PS7050T and PS8250T, follow these simple instructions.

1. Connect the USB Type B side of the USB cable included in the accessory kit to the connector on the display I/O panel.

2. Connect the USB Type A side of the cable to the PC.

3. For Windows and Linux operating systems, a driver is not required to enable touch on the display. For MacOSX, a driver is required and can be found on www.planar.com/support.

The PS7050T and PS8250T are calibrated before shipment, so there should be no need to calibrate out of the box. If calibration is desired and the operating system is Windows 7 or 8, go to: **CONTROL PANEL > TABLET PC SETTINGS**, then clicking on “Calibrate” as shown below.

![Calibrate Settings](image)

When you click on Calibrate, a grid pattern shows on the screen with touch points identified. Touch all of the identified points, then hit “yes” at the end to store the calibration.
## Signal Compatibility

<table>
<thead>
<tr>
<th>Signal Type</th>
<th>Resolution</th>
<th>Frame Rate (Hz)</th>
<th>HDMI</th>
<th>DisplayPort</th>
<th>PC RGB</th>
<th>Component</th>
<th>Composite (CVBS video)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC</td>
<td>640x480</td>
<td>60</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PC</td>
<td>640x480</td>
<td>67</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PC</td>
<td>640x480</td>
<td>72</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PC</td>
<td>640x480</td>
<td>75</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PC</td>
<td>720x400</td>
<td>70</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PC</td>
<td>800x600</td>
<td>56</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PC</td>
<td>800x600</td>
<td>60</td>
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# Specifications

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<tr>
<th>Model</th>
<th>PS7050</th>
<th>PS7050T</th>
<th>PS8250</th>
<th>PS8250T</th>
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<td><strong>Viewable Size</strong></td>
<td>70&quot; Diagonal</td>
<td>82&quot; Diagonal</td>
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<tr>
<td><strong>Brightness (typ)</strong></td>
<td>400 cd/m²</td>
<td>450 cd/m²</td>
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<tr>
<td><strong>Contrast Ratio (typ)</strong></td>
<td>4000:1</td>
<td>5000:1</td>
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<tr>
<td><strong>Display Resolution</strong></td>
<td>FHD 1080p (1920 x 1080)</td>
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<td><strong>Response Time (typ)</strong></td>
<td>8 ms</td>
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<tr>
<td><strong>Refresh Rate</strong></td>
<td>60 Hz</td>
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<td><strong>Pixel Pitch</strong></td>
<td>0.807mm x 0.807mm</td>
<td>0.9405mm x 0.9405mm</td>
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<tr>
<td><strong>Color Gamut</strong></td>
<td>70% NTSC</td>
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<tr>
<td><strong>Viewing Angle (typ)</strong></td>
<td>178° H and V</td>
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<tr>
<td><strong>External Connections</strong></td>
<td>HDMI x 2, DisplayPort, VGA, Component, Composite, PC Audio In, Line Out, SPDIF out, USB</td>
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<tr>
<td><strong>Display Control</strong></td>
<td>RS232 in, IR (lockable), Keypad (lockable)</td>
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<td><strong>Power Requirements</strong></td>
<td>100-240V; 50/60Hz</td>
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<td><strong>Power Consumption (max)</strong></td>
<td>280W</td>
<td>400W</td>
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<td><strong>Fanless</strong></td>
<td>Yes</td>
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<tr>
<td><strong>VESA mount pattern</strong></td>
<td>800x400</td>
<td>600x600</td>
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<tr>
<td><strong>Bezel width</strong></td>
<td>1.7” (42mm)</td>
<td>1.6” (40mm)</td>
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<tr>
<td><strong>Cabinet Dimensions (W x H x D)</strong></td>
<td>64.3” x 37.6” x 2.7” (1634.3mm x 956.0mm x 68.0mm)</td>
<td>64.3” x 37.6” x 3.3” (1634.3mm x 956.0mm x 83.6mm)</td>
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<tr>
<td><strong>Display Weight</strong></td>
<td>128 lbs (58 kg)</td>
<td>185 lbs (84 kg)</td>
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<tr>
<td><strong>Shipping Weight</strong></td>
<td>154 lbs (70 kg)</td>
<td>211 lbs (96 kg)</td>
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<td>Landscape/Portrait</td>
<td>Landscape</td>
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<td><strong>Speakers</strong></td>
<td>10W x 2 built-in</td>
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<td><strong>Touch Technology</strong></td>
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<td>IR 10 point touch</td>
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<tr>
<td><strong>OS Compatibility</strong></td>
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<td>Windows 8, 7, Vista, XP, Mac OSX, and Linux</td>
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<tr>
<td><strong>Protective Glass</strong></td>
<td>N/A</td>
<td>Anti-glare tempered</td>
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Dimensions

PS7050 - Front and Side

PS7050 - Rear
PS7050T - Front and Side

PS7050T - Rear
PS8250 - Front and Side

PS8250 - Rear
PS8250T - Front and Side

PS8250T - Rear
Troubleshooting

Before calling service personnel, please check the following table for a possible cause of the problem you are experiencing. Please note the following:

- Perform the adjustments according to "Operating the Display" on page 15.
- If the problem you have experienced isn’t described below or you can’t correct the problem, stop using the display and contact Planar’s Technical Support Department. (See "Accessing Planar Technical Support" on page 41)

<table>
<thead>
<tr>
<th>Issue</th>
<th>Check for the following</th>
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<tr>
<td>No image is displayed</td>
<td>Make sure the correct source is selected.</td>
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<tr>
<td></td>
<td>Check that the source equipment is operating correctly.</td>
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<tr>
<td></td>
<td>Make sure the input signal is compatible with this display.</td>
</tr>
<tr>
<td>The image is not centered</td>
<td>Make sure the input signal is compatible with this display.</td>
</tr>
<tr>
<td>The remote control doesn’t work</td>
<td>Make sure the batteries are new and are installed correctly.</td>
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<tr>
<td></td>
<td>Ensure the remote is aimed at the IR sensor.</td>
</tr>
<tr>
<td></td>
<td>Make sure the remote is unlocked</td>
</tr>
<tr>
<td>The picture color looks poor</td>
<td>Check the picture settings. Reset the display.</td>
</tr>
<tr>
<td>Touch is not working</td>
<td>Ensure the USB cable is installed correctly on both ends.</td>
</tr>
<tr>
<td></td>
<td>Also make sure that you are using one of the supported operating systems. Install touch driver found on <a href="http://www.planar.com/support">http://www.planar.com/support</a>.</td>
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</table>
Accessing Planar Technical Support

Go to [http://www.planar.com/support](http://www.planar.com/support) to locate the following support documents and resources:

- User Guide
- Touchscreen Drivers
- Standard warranties
- Planar support hotline number and email
EMC (Electro Magnetic Compatibility) Certification

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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