

PLL2410W LED LCD Monitor

USER'S GUIDE

www.planar.com

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Operation Instructions

Thank you for purchasing this LED LCD Monitor, a high-resolution multi-scan color LED LCD Monitor.

Please read this guide thoroughly before installation.

FCC RADIO FREQUENCY INTERFERENCE STATEMENT WARNING: (FOR FCC CERTIFIED MODELS)

This LED LCD Monitor has been tested and found compliant with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide proper protection against harmful interference to a residential installation. This LED LCD Monitor generates, uses, and can radiate radio frequency energy. Harmful interference to radio communication may be led as a result if it's not properly installed and used. However, there is no guarantee that interference will not occur in a particular installation. If this LED LCD Monitor does cause serious interference to radio or television reception, resetting the LED LCD Monitor may determine it. Moreover, users are encouraged to correct interference by doing one or more of the following:

- Reorient or relocate the receiving antenna.
- Move the LED LCD Monitor and the receiver further away from each other.
- Connect the LED LCD Monitor into an outlet on a circuit different from that to which the receiver is connected.
- Consult your local dealer or an qualified technician.

FCC Warning:

To assure a continued FCC compliance, a user must use a grounded power supply cord and the provided shielded video interface cable with bonded ferrite cores. Also, any unauthorized changes or modifications to this LED LCD Monitor would void the user's authority to operate this device.

Note: If necessary, shielded interface cables and AC power cord must be used to meet the emission level limits.



According to WEEE regulation, this LED LCD Monitor can't be handled as normal trash in Europe when it is out of usage. Please refer to the recycle information from our website to handle it.

Safety Precautions

This LED LCD Monitor is manufactured and tested on a ground principle that a user's safety comes first. However, improper use or installation may result danger to the LED LCD Monitor as well as to the user. Carefully go over the following WARNINGS before installation and keep this guide handy.

WARNINGS:

- ◆ This LED LCD Monitor should be operated only at the correct power sources indicated on the label on the rear end of the LED LCD Monitor. If you're unsure of the power supply in your residence, consult your local dealer or power company.
- ◆ Do not try to repair the LED LCD Monitor yourself as it contains no user-serviceable parts. The LED LCD Monitor should only be repaired by a qualified technician.
- ◆ Do not remove the LED LCD Monitor cabinet. There is high-voltage parts inside that may cause electric shock to human bodies, even when the power cord is disconnected .
- ◆ Stop using the LED LCD Monitor if the cabinet is damaged. Have it checked by a service technician.
- ◆ Put your LED LCD Monitor only in a clean, dry environment. Unplug the LED LCD Monitor immediately if gets wet and consult your service technician.
- ◆ Always unplug the LED LCD Monitor before cleaning it. Clean the cabinet with a clean, dry cloth. Apply non-ammonia based cleaner onto the cloth, not directly onto the glass screen.
- ◆ Keep the LED LCD Monitor away from magnetic objects, motors, TV sets, and transformer.
- ◆ Do not place heavy objects on the cable or power cord.
- ◆ For pluggable equipment, the socket-outlet shall be installed near the equipment and shall be easily accessible.

First Setup

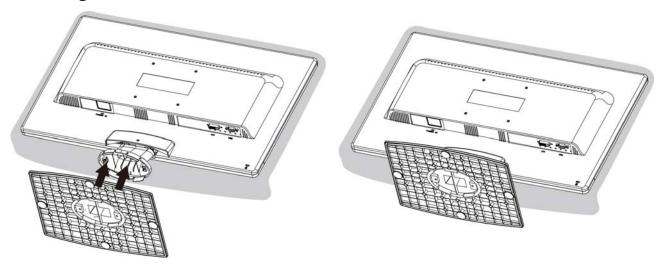
Congratulations on your purchase of this high performance LED LCD Monitor.

This LED LCD Monitor comes with the following accessories:

- LED LCD Monitor
- User's Guide
- Base

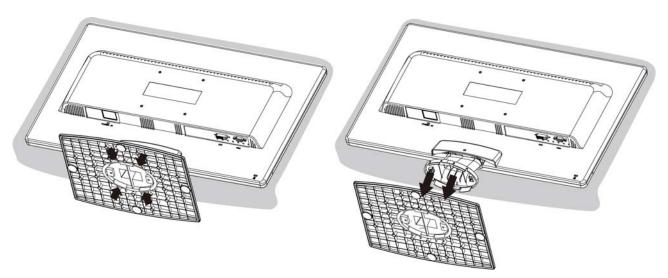
- Power Cable
- VGA Cable

Installing the Stand Base



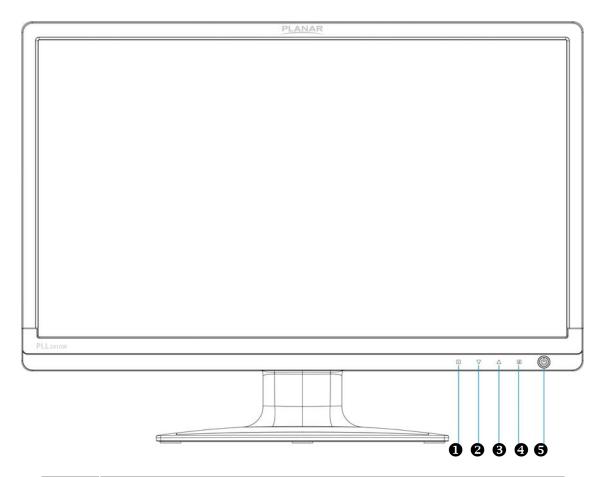
- 1. Place the monitor face down on a soft cloth or cushion on a table.
- 2. Install the stand base to the monitor.

Disconnecting the Stand Base



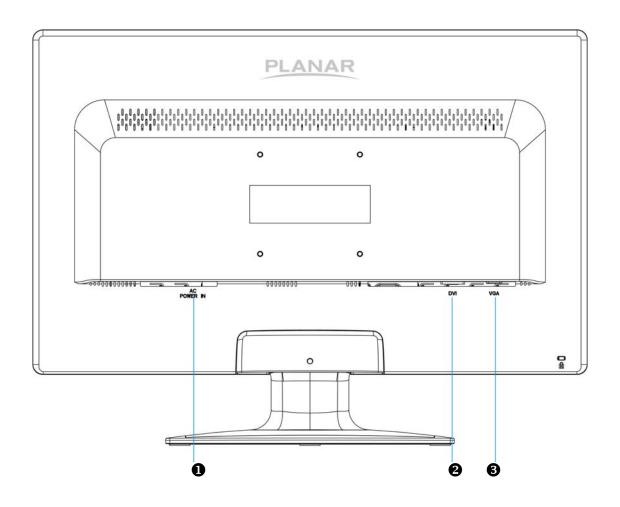
- 1. Place the monitor face down on a soft cloth or cushion on a table.
- 2. Press the 4 tenons inwardly and pull the stand base to remove.

Front View of the Product



| 0 | OSD Menu On/Off | |
|---|--|--|
| 2 | Contrast/Brightness /Scroll Down/Adjust Decrease | |
| 6 | Preset Mode/Scroll Up/ Adjust Increase | |
| 4 | Confirm Select /Input select/Auto adjust | |
| 6 | Power ON/OFF/ LED Indicator | |

Rear View of the Product

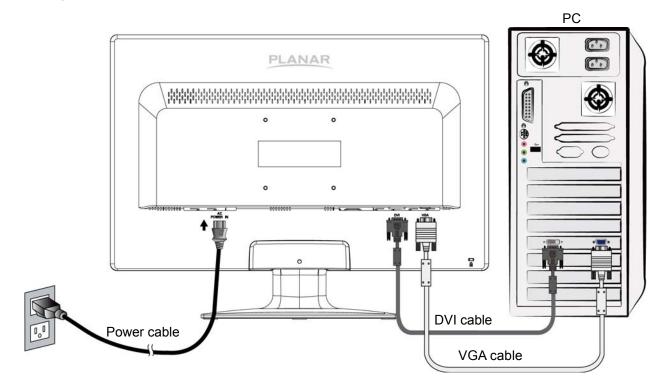


| 0 | Power input (AC input) |
|---|--------------------------|
| 2 | DVI Input (DVI 24 pin) |
| € | VGA input (D-Sub 15 pin) |

Quick Installation

- **1.** Connect either VGA or DVI Video Source from the monitor to the computer. Make sure both monitor and computer are powered OFF.
- 2. Connect the power cord to a properly grounded AC outlet, then to the monitor.
- **3.** Power-ON computer and then POWER-ON the monitor.
- **4.** Set the timing mode on your computer. Recommended resolution and refresh rate is 1920 x1080 @ 60Hz.

Example:



Basic Operation

Before using the LED LCD Monitor:

Connect external equipments properly.

Insert the power plug, and the power LED indicator will light orange.

Power On/Off

To turn the LED LCD Monitor on/off:

Press **POWER** button on the front of LED LCD Monitor. The power LED indicator lights green when the LED LCD Monitor is on.

Using the OSD Menu

You are able to use OSD menus to adjust various settings by using menu button on the front of the LED LCD Monitor.

| <u>c</u> | the EED ECD Monitor. | | |
|----------|---|--|--|
| 1 | Display main menu | | |
| | Exit from OSD menu | | |
| | Confirm the selection | | |
| 2 | Selects between VGA, DVI or Auto mode / Press the button for three | | |
| | seconds to auto adjust the image (VGA only) | | |
| • | Select the desired item when in OSD menu | | |
| | When not in OSD menu, directly enters Contrast/Brightness Setting menu. | | |
| A | Select the desired item when in OSD menu | | |
| | When not in OSD menu, directly enters Preset Mode | | |
| ▼ + ▲ | Recall both of Contrast and Brightness (when not in OSD menu) | | |

OSD Lock Out Function

When LED LCD 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

■ button and the

button for 3 seconds to lock the OSD buttons.

The LED LCD Monitor will show an "OSD Lock Out" message for 5~10 seconds and the message will disappear automatically.



Repeat this step to unlock.

Option 2: OSD & Power button lock – all 5 buttons including the "POWER" button are locked. Press and hold the 1 button and the ▼ button for 3 seconds to lock all 5 buttons.

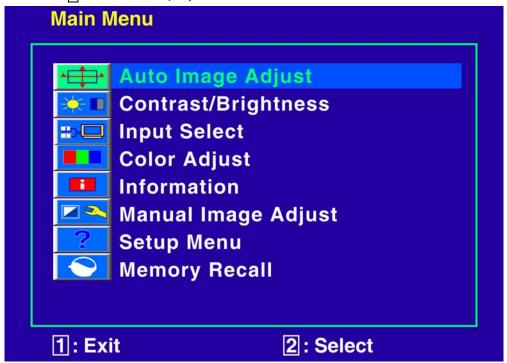
The LED LCD Monitor will show an "Lock Out" message for 5~10 seconds and the message will disappear automatically.



Repeat this step to unlock.

Advanced Operation—OSD Menu

You can use the OSD menu to adjust various settings for your LED LCD Monitor. Press the $\boxed{1}$ button to display the OSD Menu, and use $\blacktriangle \blacktriangledown$ to select the desired OSD menu.



Short Cuts Function from the button(s)



Auto Image Adjust: To auto adjust Horizontal Position, Vertical Position, Phase (Fine Tune) and Clock (H. Size) of the screen.



Contrast: To adjust the foreground white level of screen image.

▲: increase contrast, **▼:** decrease contrast.



Brightness: To adjust the luminance of the video.

▲: increase brightness, **▼:** decrease brightness.

ECO: Allows the user to turn the ECO On or Off. Contrast and Brightness adjustment disabled when ECO is active.



Input Select: When press Input Select change Input signal to VGA, DVI or Auto.



Color Adjust: To select the color for improving brightness and color saturation between 9300K, 6500K, 5400K, and User Color.

9300K: Adds blue to screen image for cooler white.

6500K: Adds red to screen image for warmer white and richer red.

5400K: Adds green to screen image for a darker color.

User Color: Individual adjustments for red (R), green (G), blue (B).

- 1. Press button 2 to select the desired color.
- 2. Press ▼ or ▲ button to adjust selected color.
- **Information:** To display the information, regarding the current input signal coming from the graphic card in your computer.

Note: See your graphic card user guide for more information about changing the resolution and refresh rate.

- Manual Image Adjust: To manually adjust the Horizontal Size, H. /V. position, Fine Tune, Sharpness, Video Mode adjust and Prest Mode.
- Horizontal Size: To adjust the width of the screen image.

 ▼: decrease the width of screen image, ▲: increase the width of screen image.
- H./V. Position: To adjust the horizontal and vertical position of the video.
 H. Position: ▲: move screen to the right, ▼: move screen to the left.
 V. Position: ▲: move screen up, ▼: move screen down.
- Fine Tune: To adjust the delay time of data and clock.

 Press ▼ or ▲ to adjust to your preference.
- Sharpness: To adjust the clarity of a non-Full HD Resolution (1920x1080) signal with ▼ or ▲ button.
- Video Mode adjust: To select the video mode from Full Screen, Over Screen or Aspect Ratio.

Full Screen: To select full-screen size image. **Over Screen:** To select over-screen size image. **Aspect Ratio:** To select input timing image size.

Preset Mode: Provides an optimum display environment depending on the contents displayed. It contains 5 user-selectable presets.

Standard is for general windows environment and monitor default setting.

Game optimized for PC game environment.

Cinema optimized for movie and video environment.

Scenery optimized for displaying outdoor scenery images.

Text optimized for text editing and viewing in a word processing environment.

- **?** Setup Menu: To set up Language Select, OSD Position, OSD Time Out and OSD Background.
- Language Select: To allow users to choose from available languages.



OSD Position: Press ▼ or ▲ button to select between horizontal and vertical OSD Position adjustment.

H. Position: To horizontally adjust the OSD position.

▲: move OSD to the right, **▼:** move OSD to the left.

V. Position: To vertically adjust the OSD position.

▲: move OSD up, **▼:** move OSD down.



OSD Time Out: To automatically turn off On Screen Display (OSD) after a preset period of time.



OSD Background: Allows the user to turn the OSD background On or Off.



Memory Recall: To recall factory settings for Video controls. Press button 2 to select the Memory Recall menu option.

Supporting Timing Modes

| STANDARD | RESOLUTION |
|----------|--------------------|
| VGA | 720 x 400 @ 70Hz |
| VGA | 640 x 480 @ 60Hz |
| MAC | 640 x 480 @ 67Hz |
| VESA | 640 x 480 @ 72Hz |
| VESA | 640 x 480 @ 75Hz |
| VESA | 800 x 600 @ 56Hz |
| VESA | 800 x 600 @ 60Hz |
| VESA | 800 x 600 @ 72Hz |
| VESA | 800 x 600 @ 75Hz |
| MAC | 832 x 624 @ 75Hz |
| VESA | 1024 x 768 @ 60Hz |
| VESA | 1024 x 768 @ 70Hz |
| VESA | 1024 x 768 @ 75Hz |
| VESA | 1280 x 960 @ 60Hz |
| VESA | 1152 x 864 @ 75Hz |
| MAC | 1152 x 870 @ 75Hz |
| VESA | 1280 x 1024 @ 60Hz |
| VESA | 1280 x 1024 @ 75Hz |
| VESA | 1440 x 900 @ 60Hz |
| VESA | 1440 x 900 @ 75Hz |
| CVT | 1400 x 1050 @ 60Hz |
| VESA | 1600 x 1200 @ 60Hz |
| VESA | 1680 x 1050 @ 60Hz |
| VESA | 1920 x 1080 @ 60Hz |

Note: Simultaneously press $\boxed{1}$ and $\boxed{2}$ keys on monitor panel to switch between similar PC timings. Similar PC Timing on list below:

- 720 x 400 @ 70Hz / 640 x 400 @ 70Hz
- 1400 x 1050 @ 60Hz / 1680 x 1050 @ 60Hz
- 640 x 480 @ 60Hz / 720 x 480 @ 60Hz

Warning: Do not set the graphic card in your computer to exceed these maximum refresh rates. Doing so may result in permanent damage to your monitor.

Technical Information

Technical Specification

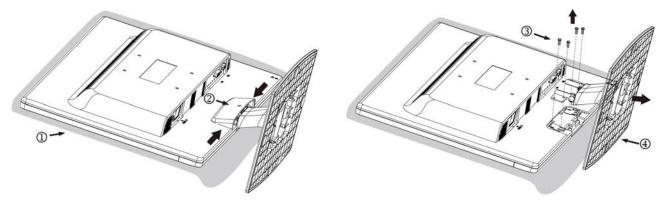
| recillical specification | |
|--------------------------|--|
| Panel | 23.6"TFT (with LED back light) |
| Power Management | On: 35 Watts (typical), 40 Watts (maximum) |
| | Standby Mode: < 0.5 Watt |
| | Off: < 0.5 Watt |
| Displayable Resolution | Full HD 1920 x 1080 max. |
| | Vertical Frequency 60Hz max. |
| Pixel Dimension | 0.2715x 0.2715 mm |
| Display Color | 16.7M |
| Tilt | 0°~ 20° |
| Active Display Area | 521.38mm ×293.22mm |
| Temperature | Operating: 0°C ~ + 40°C |
| | Storage: -20°C ~ + 60°C |
| Compliance | FCC, CE, UL, WEEE |
| Power | Input Voltage AC100-240 V |

Wall-mount instruction

Preparing To Install The Optional Wall Mount Arm (not included)

This LED LCD Monitor can be attached to a wall mounting arm you can purchase separately. Turn the power OFF then disconnect the cables from the LED LCD Monitor before performing the procedure below.

- 1. Lay the LED LCD Monitor face down on a soft surface.
- 2. Remove the hinge cover.
- 3. Remove the one screw holding the stand to the hinge.
- 4. Remove the stand.



Attaching The Optional Wall Mount Arm (not supplied)

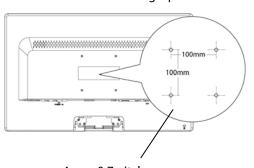
Follow these steps to finish installing the wall mounting arm:

- 1. Place the wall mounting arm onto the back of the LED LCD Monitor. Line up the holes of the arm with the holes in the back of the monitor.
- 2. Insert the 4 screws into the holes and tighten.
- 3. Reconnect the cables. Refer to the User's Guide that came with the optional wall mounting arm for instructions on attaching it to the wall.

NOTE

 100mmx100mm VESA high hole (n=4), M4, pitch =0.7 mm screw mounting kit not included.

100mm x 100mm Screw Mounting Options



4mm, 0.7 pitch threaded holes x 4

Care and Maintenance

Care

- Avoid exposing your LED LCD Monitor directly to sunlight or other heat source. Place your LED LCD Monitor away from the sun to reduce glare.
- Put your LED LCD Monitor in a well ventilated area.
- Do not place any heavy things on top of your LED LCD Monitor.
- Make certain your LED LCD Monitor is installed in a clean and moisture-free area.
- Keep your LED LCD Monitor away from magnets, motors, transformers, speakers, and TV sets.

Note

- Move the LED out of the package and take off the plastic bag and Polystyrene Foam.
- Pull the base from Parallel versus Panel to Vertical.
- Adjust the Panel within 0 degree leaning forward and 20 degree leaning backward.

Safety Tips

- If smoke, abnormal noise or odor came out from your LED LCD Monitor, caution you should remove the power cord immediately and call your service center.
- Never remove the rear cover of your LED LCD Monitor cabinet. The display unit inside contains high-voltage parts and may cause electric shock to human bodies.
- Never try to repair your LED LCD Monitor yourself. Always call your service center or a qualified technician to fix it.

Troubleshooting

No power

- Make sure A/C power cord is securely connected to the power adapter and the power supply is firmly connected to the LED LCD Monitor.
- Plug another electrical device into the power outlet to verify that the outlet is supplying proper voltage.
- Make sure all signal cables are installed.

Power on but no screen image

- Make sure the video cable supplied with the LED LCD Monitor is tightly secured to the video output port on back of the computer. If not, tightly secure it.
- Adjust brightness.

Wrong or abnormal colors

- If any colors (red, green, blue) are missing, check the video cable to make sure it is securely connected. Loose or broken pins in the cable connector could cause an improper connection.
- Connect the LED LCD Monitor to another computer.

Product Support

Cables, Replacement Lamps, Accessories

To find cables, replacement lamps and accessories for your Planar projector, LCD monitor, LED 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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