PLANAR

# PVE24F-EW LCD Monitor
# User's Guide

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ENERGY STAR is a program run by the U.S. Environmental Protection Agency (EPA) and U.S. Department of Energy (DOE) that promotes energy efficiency. This product qualifies for ENERGY STAR in the “factory default” settings and this is the setting in which power savings will be achieved. Changing the factory default picture settings or enabling other features will increase power consumption that could exceed the limits necessary to qualify for ENERGY STAR rating. For more information on the ENERGY STAR program, refer to energystar.gov.

RoHS Compliance Statement
The Planar PVE24F-EW is fully RoHS compliant.

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# Operation Instructions

Thank you for purchasing the PVE24F-EW LCD monitor. Please read this guide thoroughly before installation.

### FCC RADIO FREQUENCY INTERFERENCE STATEMENT WARNING:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.
Increase the separation between the equipment and receiver.
Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
Consult the dealer or an experienced radio/TV technician for help.

**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.
Modifications not expressly approved by Planar could void the user's authority to operate the equipment.

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

**Important Waste Disposal Information**

Please recycle or dispose of all electronic waste in accordance with local, state, and federal laws. Additional resources can be found online at http://www.planar.com/about/green/.

The crossed-out wheelie bin symbol is to notify consumers in areas subject to Waste Electrical and Electronic Equipment (WEEE) Directive 2012/19/EU that the product was placed on the market after August 13, 2005 and must not be disposed of with other waste. Separate collection and recycling of electronic waste at the time of disposal ensures that it is recycled in a manner that minimizes impacts to human health and the environment. For more information about the proper disposal of electronic waste, please contact your local authority, your household waste disposal service, or the seller from whom you purchased the product.

**AVERTISSEMENT DE LA FCC CONCERNANT LES INTERFÉRENCES RADIOÉLECTRIQUES :**

Cet équipement a été testé et déclaré conforme aux limites applicables aux appareils numériques de classe B, conformément à la partie 15 du règlement de la FCC. Ces limites visent à assurer une protection raisonnable contre les interférences nuisibles dans une installation résidentielle. Cet équipement génère, utilise et peut émettre de l'énergie radiofréquence ; s'il n'est pas installé et utilisé conformément aux instructions, il peut provoquer des interférences nuisibles aux communications radio. Toutefois, il n'existe aucune garantie que de telles interférences ne se produiront pas dans une installation donnée. Si cet équipement provoque des interférences nuisibles à la réception radio ou télévision (ce qui peut être vérifié en éteignant puis en rallumant l'appareil), l'utilisateur est invité à tenter de remédier à ces interférences en prenant l'une ou plusieurs des mesures suivantes :

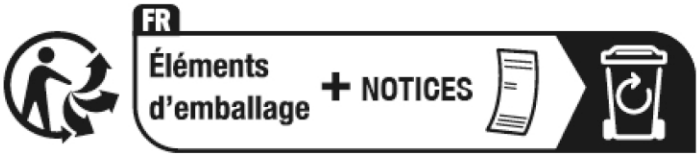
Réorienter ou déplacer l'antenne de réception.
Éloigner davantage l'équipement du récepteur.
Brancher l'équipement sur une prise appartenant à un circuit différent de celui auquel le récepteur est raccordé.
Consulter le revendeur ou un technicien radio/TV qualifié pour obtenir de l'aide.

**Avertissement de la FCC:**
Pour garantir une conformité continue aux normes de la FCC, l'utilisateur doit utiliser un cordon d'alimentation avec mise à la terre ainsi que le câble d'interface vidéo blindé fourni, équipé de noyaux de ferrite intégrés. Toute modification non expressément approuvée par Planar pourrait annuler le droit de l'utilisateur à faire fonctionner cet équipement.

**Note:** Si nécessaire, des câbles d'interface protégés et un cordon d'alimentation alternante doivent être utilisé pour être conforme aux limites d'émission.

**Consigne de tri (pour la France uniquement)**

Points de collecte sur www.quefairedemesdechets.fr
Privilégiez la réparation ou le don de votre appareil !



## Unpacking Instructions

Move the LCD monitor out of the package and take off the plastic bag and Polystyrene foam.
Remove base from plastic bag and attach to monitor.

## Safety 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.
Surface may be cleaned by using a soft clean cloth moistened with mild window glass commercial cleaners or 50/50 mixture of water and isopropyl alcohol.
Use a soft cloth moistened with mild detergent to clean the display housing.
Disconnect the power plug from AC outlet if the product is not going to be 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 your cleaning.
Do not operate the product under the following conditions:

- Over 16 hours per day.
- Extremely hot, cold or humid environment.
- Areas susceptible to excessive dust and dirt.
- Near any appliance generating a strong magnetic field.
- In direct sunlight.

If smoke, abnormal noise or odor emits from your LCD monitor, remove the power cord immediately and call your service center.

Never remove the rear cover of your LCD monitor. The display unit inside contains high-voltage parts and may cause electric shock.

Never try to repair your LCD monitor yourself. Always call your service center or a qualified technician to fix it.

Due to safety concerns, if the VESA mounting kit is purchased separately, please make sure the mounting kit is UL-listed, and replaceable only by service personnel.

## Consignes de sécurité

Respectez tous les avertissements, les précautions et conseils d'entretien recommandés dans ce manuel de l'utilisateur pour maximiser la durée de vie de votre appareil.

**A faire :**

Éteindre le produit avant de le nettoyer.
La surface de l'écran peut être nettoyée avec un chiffon doux et propre imprégné d'un nettoyant doux du commerce pour vitres ou d'un mélange à 50/50 d'alcool isopropylique et d'eau.
Utilisez un chiffon doux imprégné d'un détergeant doux pour nettoyer le boîtier de l'afficheur .
Débranchez la fiche d'alimentation de la prise de courant secteur si le produit ne doit pas être utilisé pendant une période prolongée.

**A ne pas faire :**

Ne touchez pas la surface de l'écran LCD avec des objets coupants ou durs.
N'utilisez pas des produits de nettoyage abrasifs, de la cire ou des solvants pour le nettoyage.
N'utilisez pas le produit dans les conditions suivantes :
Plus de 16 heures par jour.
Environnement extrêmement chaud, froid ou humide.
Endroits poussiéreux ou sales.
Près d'appareils générant un fort champ magnétique.
Sous la lumière directe du soleil.

Si de la fumée, un bruit anormal ou une odeur s'échappait de votre moniteur LCD , débranchez immédiatement le cordon d'alimentation et appelez votre centre de réparation.

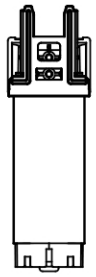
Ne retirez jamais le couvercle arrière de votre moniteur LCD . L'unité d'affichage contient des éléments où circule un voltage élevé et présentant un risque d'électrocution.

N'essayez jamais de réparer vous-même votre moniteur LCD . Faites toujours appel à votre centre de service ou à un technicien quali é pour toute réparation.

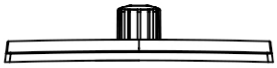
Pour des raisons de sécurité, si vous achetez séparément le kit de fixation VESA, assurez-vous que celui-ci est certifié UL, et qu'il peut être remplacé uniquement par un technicien qualifié.

# Package Overview

LCD Monitor

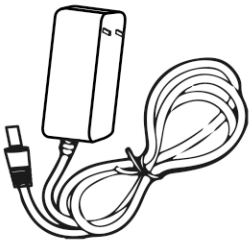


Stand

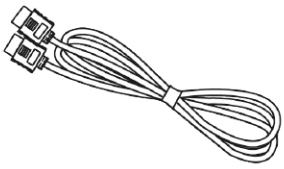


Base

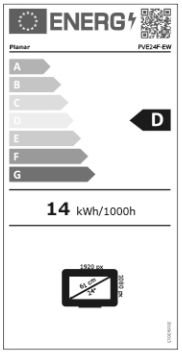
User's Guide



Power adaptor



HDMI Cable

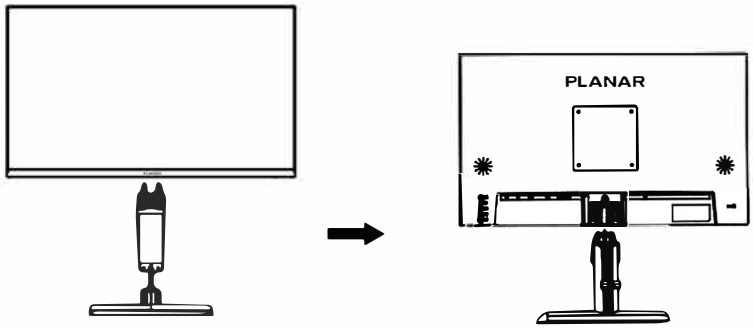



ERP Label

# First Setup

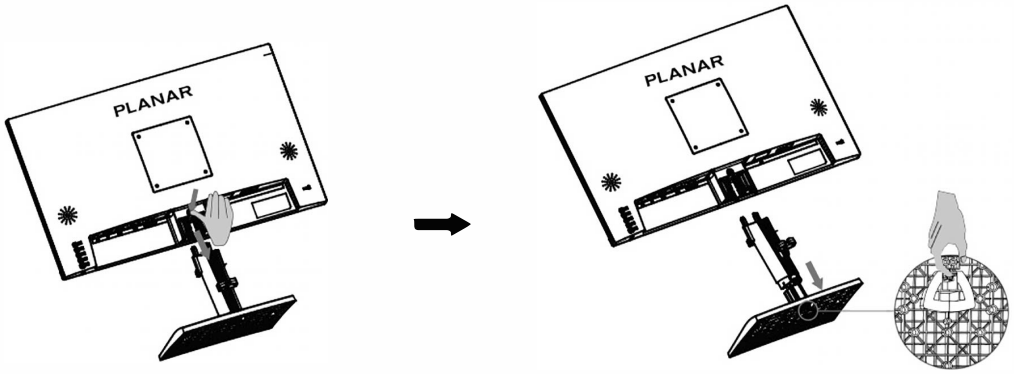
### Installing the Stand Base

1. Lay the LCD monitor on a table with the LCD screen face down. To prevent the LCD monitor from being scratched, put a piece of soft cloth on the table on which the screen will be set.
2. Insert the stand pole into the base.
3. Insert the stand into the monitor until you hear a "click".

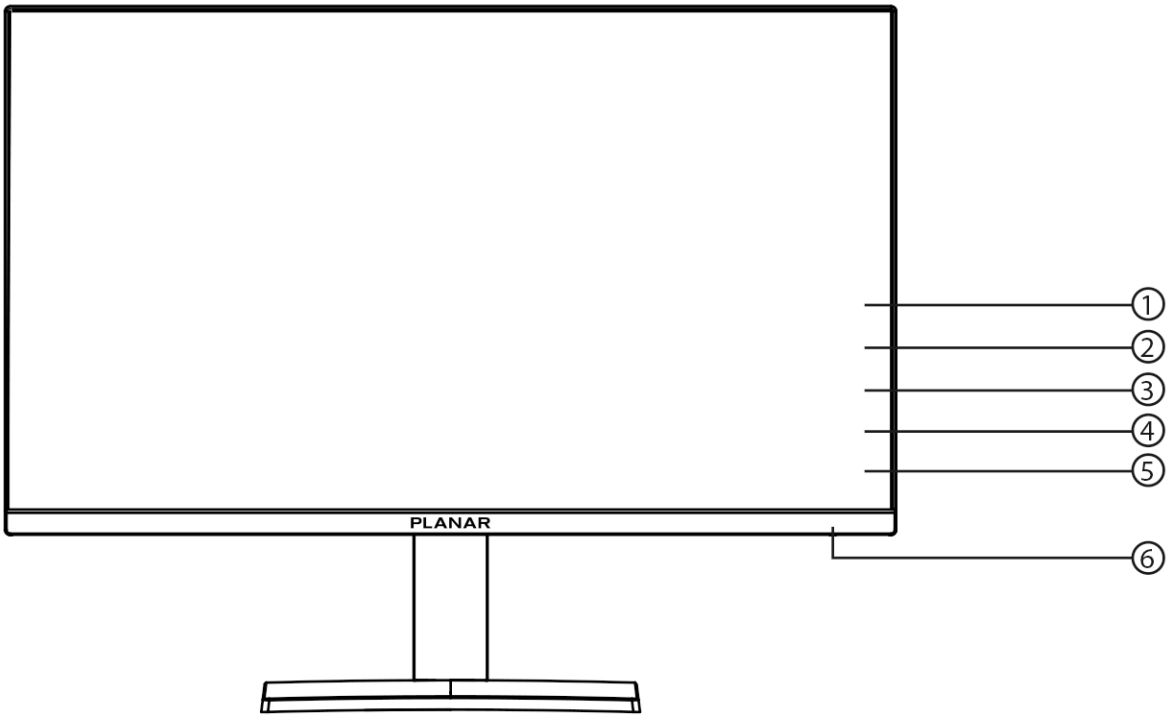



### Disconnecting the Stand Base

1. Lay the LCD monitor at on a table with the LCD screen face down. To prevent the LCD monitor from being scratched, put a piece of soft cloth on the table on which the screen will be set.
2. Push release button and pull stand away from monitor.
3. Press the tenons inwardly and pull the base from stand to remove.



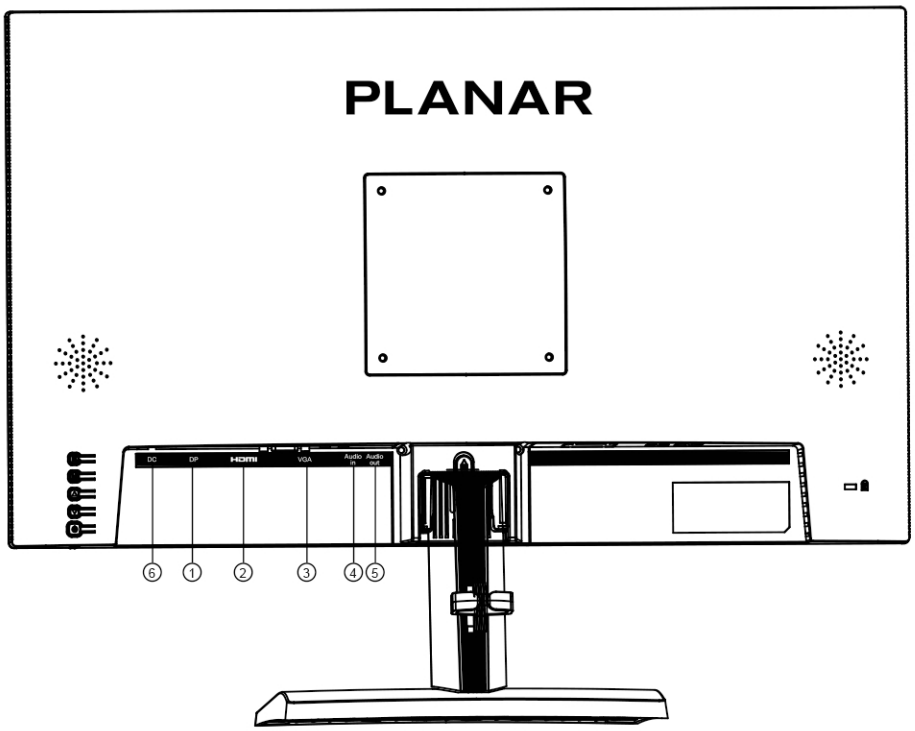
## Front View of the Product




| | |
|---|---|
| ① | Exit the Menu / Adjust Volume |
| ② | OSD Menu On Or Off/Confirm Select |
| ③ | Scroll Up/Adjust the increased value/Adjust Brightness |
| ④ | Scroll Down/Adjust the reduced value/Eco Mode |
| ⑤ | Power On/Off |
| ⑥ | LED Indicator |

* Hot keys Instructions please see “Using the OSD Menu” on page 10.

## Rear View of the Product

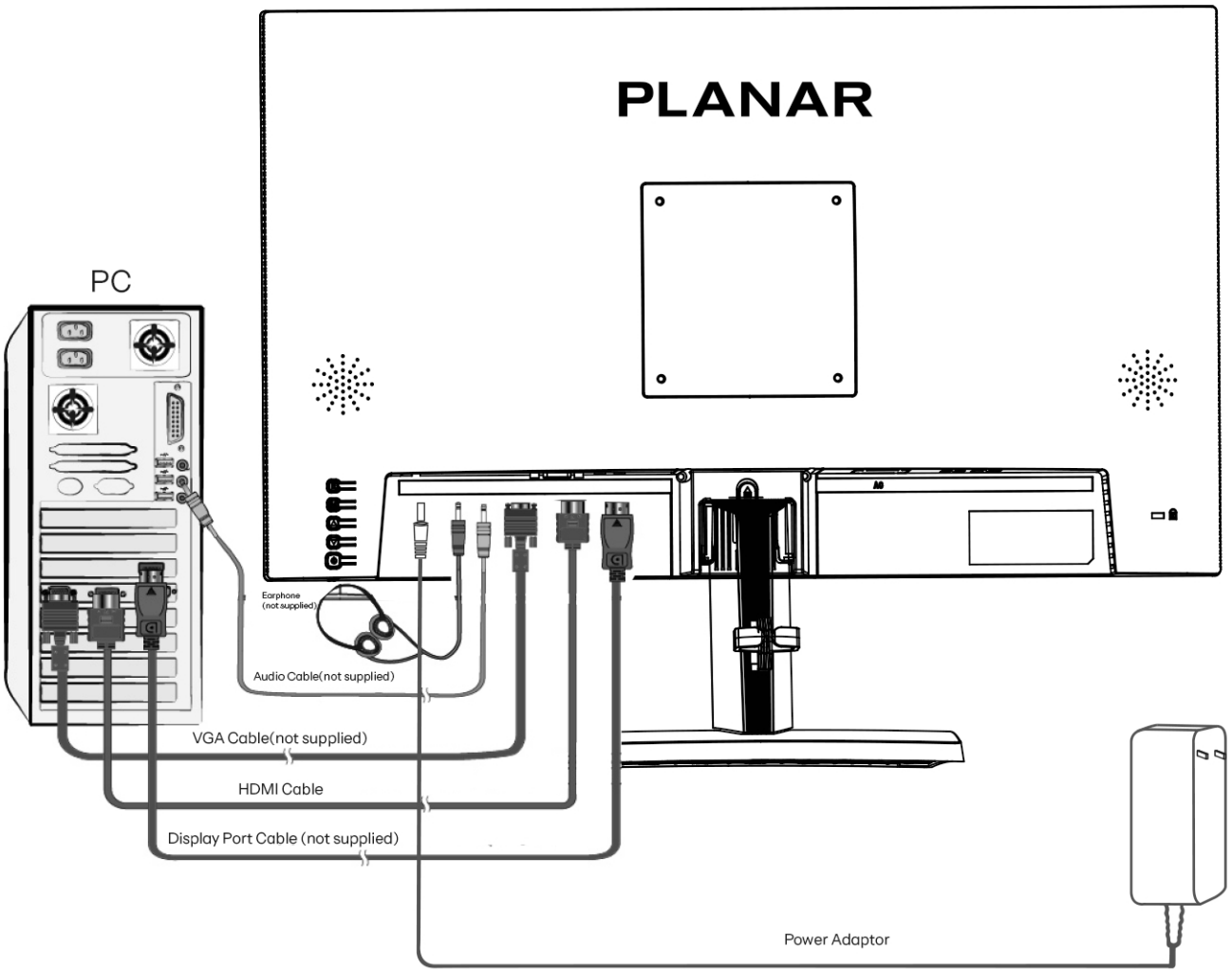



| | |
|---|---|
| ① | Display Port Input (Display Port 20 pin) |
| ② | HDMI Input (HDMI 19 pin) |
| ③ | VGA Input (D-Sub 15 pin) |
| ④ | Audio In |
| ⑤ | Audio Out |
| ⑥ | Power Input (DC Input) |

## Quick Installation

1. Connect either VGA or HDMI or DP Video Source from the monitor to the computer. Make sure both monitor and computer are powered OFF.
2. Connect the earphone to the earphone output terminal of the monitor (Earphone (not supplied)).
3. Connect the power cord to a properly grounded AC outlet, then to the monitor.
4. Power-ON computer and then POWER-ON the monitor. Set the timing mode on your computer. Recommended resolution and refresh rate is 1920 x 1080 @ 144Hz.

Figure 1:



**Basic Operation**
Before using the LCD monitor:
Connect external equipment properly.
Insert the power plug, and the power indicator will light amber.

**Power On/Off**
To turn the LCD monitor on/off :
Press ⏻ button on the front of LCD monitor. The power indicator lights blue when the 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 back of the LCD monitor.

| | |
|---|---|
| **E** | Exit from OSD menu |
| | Directly Adjust Volume (when not in OSD menu) |
| **M** | Display main menu |
| | Confirm Select |
| ▲ | Scroll Up to select the desired item when in OSD menu |
| | Adjust the increased value |
| | Directly Adjust Brightness (when not in OSD menu) |
| | OSD locked after pressing 3s |
| ▼ | Scroll Down to select the desired item when in OSD menu |
| | Adjust the reduced value |
| | Directly Adjust Eco Mode (when not in OSD menu) |
| | Power locked after pressing 3s |
| ⏻ | Power On/Off |

Remark: All the shortcuts function are only available while OSD off.
Refer to page 12 for more information.

**OSD Lock Out Function**

When LCD monitor is in normal mode, the “OSD Lock Out” function can be enabled.

**Option 1:** OSD lock – all 4 buttons are locked except the “Power” button.
Press and hold the ▲ button for 3 seconds to lock the OSD buttons.

The LCD monitor will show an “OSD Locked” message for 3 seconds and the message will disappear automatically.

Repeat this step to unlock.

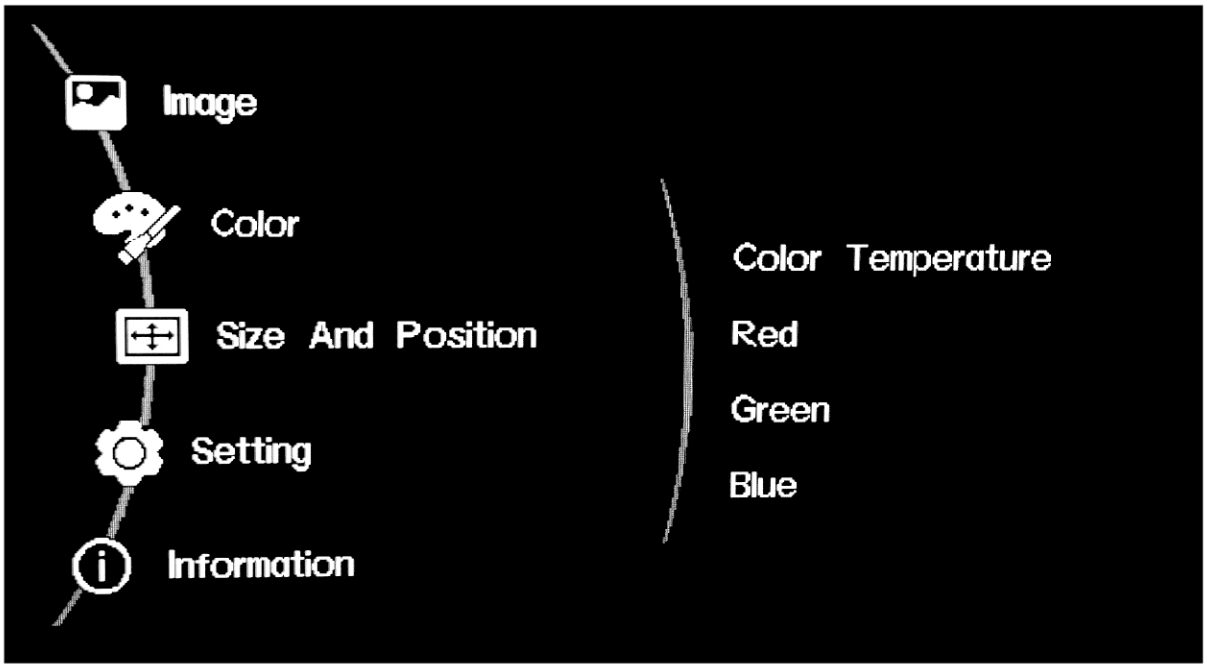
**Option 2:** OSD & Power button lock – all 5 buttons including the “Power” button are locked.
Press and hold the ▼ button for 3 seconds to lock all 5 buttons.

The Monitor will show a “Power Button Locked” message for 3 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 LCD monitor.
Press the E button to display the OSD Menu, and use ▲▼ to select the desired OSD menu.




### Short Cuts Function from the Button(s)

**Image Adjust: To manually adjust the Contrast, Brightness, ECO and DCR.**
**Brightness:** To adjust the luminance of the video.
▲: increase brightness, ▼: decrease brightness.
**Changes to this setting will affect power consumption.**
**Contrast:** To adjust the foreground white level of screen image.
▲: increase contrast, ▼: decrease contrast.
**Screen Mode:** Allows the user to change the ECO mode.
**Picture Mode**: Provides an optimum display environment depending on the content displayed. It contains 5 user-selectable presets.

- Standard: General Windows environment and monitor default setting.
- Sport: Optimized for displaying outdoor scenery images.
- Internet: Optimized for Internet environment.
- Game: Optimized for PC game environment.
- Text: Optimized for text editing and viewing in a word processing environment.

**DCR:** Allows the user to change the DCR mode. Brightness and contrast adjustments will be disabled when ECO is active.

**Color Adjust: Select the color for improving brightness and color saturation. Options are: Warm, Normal,Cool, User Color.**

**Cool:** Adds blue to screen image for cooler white.
**Normal:** Adds red to screen image for warmer white and richer red.
**Warm:** 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.

**Size and Position: Select the aspect ratio,blue light flicker, and to set up the Overdrive and Freesync.**

**Aspect Ratio:** Select the video mode from Aspect Ratio or Full Screen.
**Blue Light Flicker:** Decreases the blue light emitted from the display to reduce the risk of blue light exposure to your eyes.
Press▲ or ▼ key to adjust the Blue Light Reducer strength.
**Over Drive:** Allows the user to change the Over Drive strength to improve the quality of motion pictures.
**Free Sync:** Allows the user to change the Active sync.

**Setting: Set up Language select,Input Signal, OSD Position , OSD Time Out and reset the OSD Menu.**

**Language Select:** Allows users to choose from available languages.
**Input Signal Select:** When Input Select is pressed, changes Input Signal to HDMI, DP, or VGA.
**OSD H. Position:** Press ▲ or ▼ button to select between horizontal and vertical OSD Position adjustment. OSD H. Position: To horizontally adjust the OSD position.
▲: move OSD to the right, ▼: move OSD to the left.
**OSD V. Position:** Vertically adjusts the OSD position.
▲: move OSD up, ▼: move OSD down.
**Time Menu:** Automatically turns off On Screen Display (OSD) menu after a preset period of time.
**Volume:** Adjusts the volume of speaker output.
**Defaults:** Recalls factory default setting, excluding Language.

**Information: Displays the information, regarding the refresh rate, resolution and software version.**

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

## 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 | 1280 x 720 @ 60Hz |
| VESA | 1024 x 768 @ 60Hz |
| VESA | 1024 x 768 @ 70Hz |
| VESA | 1024 x 768 @ 75Hz |
| MAC | 1152 x 870 @ 75Hz |
| VESA | 1280 x 960 @ 60Hz |
| VESA | 1280 x 1024 @ 60Hz |
| VESA | 1280 x 1024 @ 75Hz |
| VESA | 1680 x 1050 @ 60Hz |
| MAC | 1920 x 1080 @ 60Hz |
| VESA | 1920 x 1080 @ 60Hz |

**Note:**

1. HDMI supports 480i, 480p, 576i, 576p, 720p, 1080i, and 1080p.

**Similar PC Timing on list below:**

640 x 350 @ 70Hz / 640 x 400 @ 70Hz / 720 x 400 @ 70Hz

640 x 480 @ 60Hz / 720 x 480 @ 60Hz

1400 x 1050 @ 60Hz / 1680 x 1050 @ 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.

**Avertissement :** Ne réglez pas la carte graphique de votre ordinateur en dépassant ces taux de rafraîchissement maximaux. Si vous le faites, cela va irrémédiablement détériorer votre moniteur.

# Technical Information

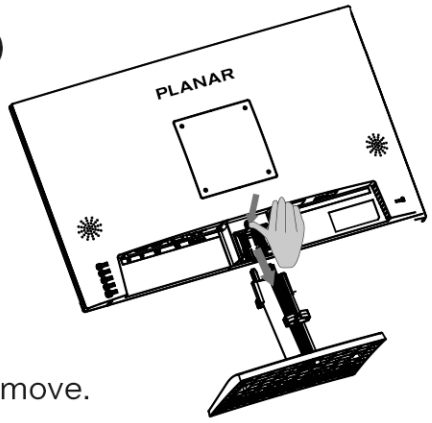
### Technical Specification

| | | |
|---|---|---|
| **Panel** | 23.8” TFT (with LED backlight) | |
| **Power Management** | STANDARD | On: 13.4 Watts (typical) |
| | SPORT | On: 14.3 Watts (typical) |
| | GAME | On: 13.9 Watts (typical) |
| | INTERNET | On: 12.5 Watts (typical) |
| | TEXT | On: 12.6 Watts (typical) |
| | Standby Mode: < 0.5 Watt | |
| | Off : < 0.5 Watt | |
| **Displayable Resolution** | Full HD 1920 x 1080 max. Vertical Frequency 144Hz max. | |
| **Pixel Dimension** | 0.2475 x 0.2475mm | |
| **Display Color** | 16.7M | |
| **Tilt** | -5°~15° | |
| **Active Display Area** | 20.75" x 11.67" \| 527.04 mm x 296.46 mm | |
| **Temperature** | Operating: 0° to +40°C \| 32° to 104°F<br>Storage: -20°C~ +60°C \| -4°to 140°F | |
| **Compliance** | CEC, Energy Star 8.0, FCC, CB (IEC62368), ICES, cTUVus, HDMI certificate, CE, UKCA, ERP | |
| **Power** | Input: 12.0V 3.0A | |
| **Speaker** | 2W x 2 | |

# VESA Mounts

The LCD monitor can be installed using a variety of VESA mounts available through Planar. All required hardware and installation manual are included. Follow these instructions carefully.

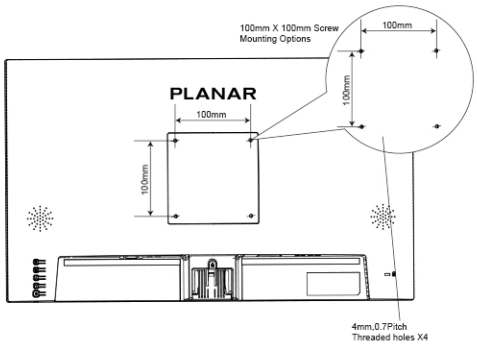
### Preparing To Install The Optional Wall Mount Arm (not included)




Turn the power off then disconnect the cables from the LCD monitor before performing the procedure below.

1. Lay the LCD monitor flat on a table with the LCD screen face down. To prevent the LCD monitor from being scratched, put a piece of soft cloth on the table on which the screen will be set.
2. Push release button and pull stand away from monitor.
3. Press the tenons inwardly and pull the base from stand to remove.

### 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 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:**

100 mm × 100 mm VESA mounting holes (n=4), M4, pitch =0.7 mm
Screw mounting kit not included.

**Caution:**

Shorter screws will result in insufficient mounting strength and longer screws could puncture parts inside the display. The device may fall, causing serious personal injury or death. To prevent injury, this device must be securely attached to the wall in accordance with the installation instructions supplied with the mount.

## Care and Maintenance

**Care**

Avoid exposing your LCD monitor directly to sunlight or other heat source. Place your LCD monitor away from the sun to reduce glare.

Put your LCD monitor in a well ventilated area.

Do not place any heavy things on top of your LCD monitor.

Make sure your LCD monitor is installed in a clean and moisture-free area.

Keep your LCD monitor away from magnets, motors, transformers, speakers, and TV sets.

**Safety Tips**

If smoke, abnormal noise or odor came out from your LCD monitor, please remove the power cord immediately and call your service center.

Si de la fumée, un bruit anormal ou une odeur s'échappait de votre moniteur, débranchez immédiatement le cordon d'alimentation et appelez votre centre de service.

Never remove the rear cover of your LCD monitor cabinet. The display unit inside contains high-voltage parts and may cause electric shock to human bodies.

Never try to repair your 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 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 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 LCD monitor to another computer.

## Planar Support

### Technical Support

Go to http://www.planar.com/support/ to access the support documents and resources: user manual, outline drawings, standard warranties, Planar support hotline number and email.

### Customer Service

24x7 Online Technical Support: http://www.planar.com/support/.
6799 NE Bennett Street, Hillsboro OR 97124.
Tel: 1-866-PLANAR1(866-752-6271), or +1 503-748-5799 outside the United States.
Hours: 24 hours a day, 7 days a week.
Toll or long distance charges may apply.

### European Product Database for Energy Labeling (EPREL)

PVE24F-EW Registration number: 2817046

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