PT1710MX
Touchscreen LCD Monitors

USER'S GUIDE

www.planar.com

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Important Recycle Instruction:

LCD 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. For lamp specific disposal information check WWW.LAMPRECYCLE.ORG.

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Usage Notice

⚠ **Warning-** To prevent the risk of fire or shock hazards, do not expose this product to rain or moisture.

⚠ **Warning-** Please do not open or disassemble the product as this may cause electric shock.

Precautions

Follow all warnings, precautions and maintenance as recommended in this user's manual to maximize the life of your unit.

Do:

- Turn off the product before cleaning.
- Touch screen 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 a soft cloth moistened with mild detergent to clean the display housing.
- Use only high quality and safety approved AC/DC adapter that comes with your monitor.
- 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:
  - 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 PT1710MX

The PT1710MX is a 17" flat panel screen with an active matrix, thin-film transistor (TFT) liquid crystal display (LCD).

Features include:

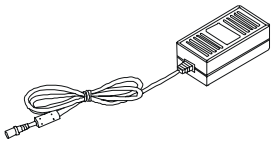
- Direct Analog signal input
- Active matrix TFT LCD technology
- 1280x1024 SXGA resolution
- 17" viewable display area
- 31.5 ~ 80 kHz horizontal scan
- 56 ~ 75 Hz high refresh rate
- 0.264mm x 0.264mm Pixel pitch
- Auto adjustment function
- Multilingual OSD user controls
- VESA DPMS power saving
- Kensington security slot
- 100 mm VESA mount
- Removable base for flexible mounting solutions.
- Gunze 5-wire Resistive touch screen with dual RS-232 Serial/USB controller
- Built-in Speakers-1W/channel.

Touch Screen for PT1710MX

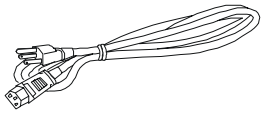
- Gunze analog 5-wire resistive touch screen for finger and stylus input
- Surface: Anti-glare treatment
- Interface: Dual RS-232 Serial/USB controller
- Durability: 35 million touches at a single point
- Hardness of surface: 2H MIN (As provided in JIS K5400)
- Operating force: 0.10~1.96N(10g~200g when using a silicon tipped pen with a 3 mm radius and a hardness of 60 degree.)
- Transmittance: 78% (Typ.)
- Driver: Gunze® Touch Panel Device Driver (TPDD). Supports Microsoft Windows® Me, 2000, XP

Package Overview

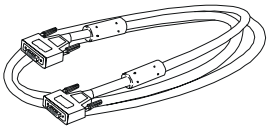
LCD Display



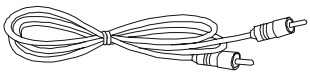
Power Adapter



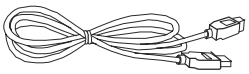
Power Cord



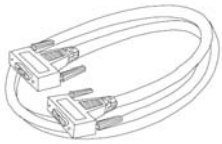
VGA Signal Cable



Audio-in Cable

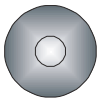


USB Cable



RS-232 Cable

Landing Strip



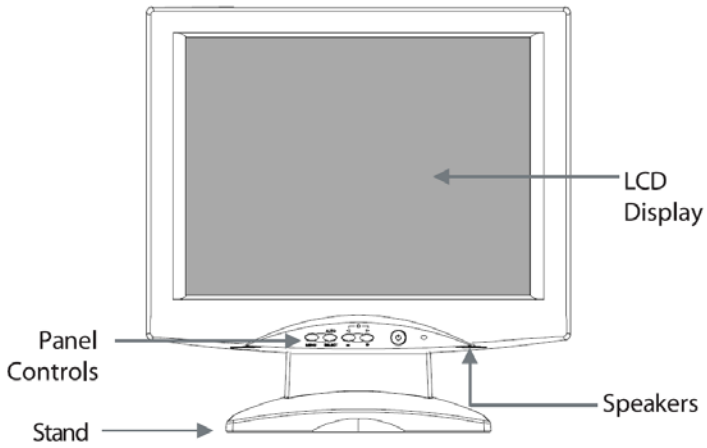
Touchscreen Driver Installation CD-ROM

User’s Guide

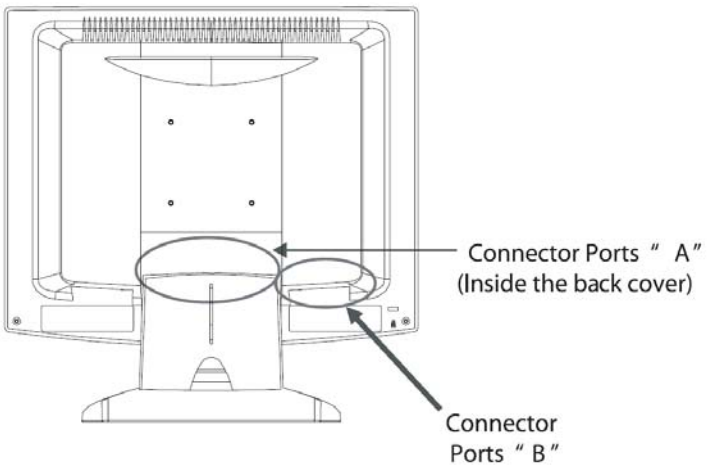
Installation

Product Overview

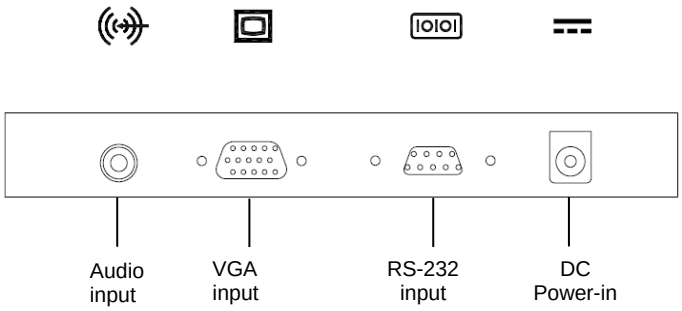
- Front View



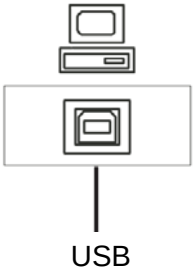
- Back View



◆ Connector Ports “A”

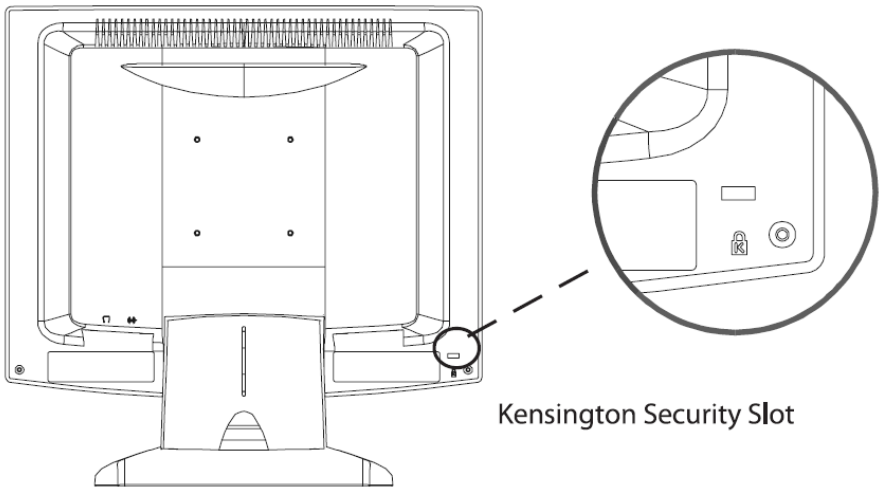


◆ Connector Ports “B”



◆ Kensington Security Slot

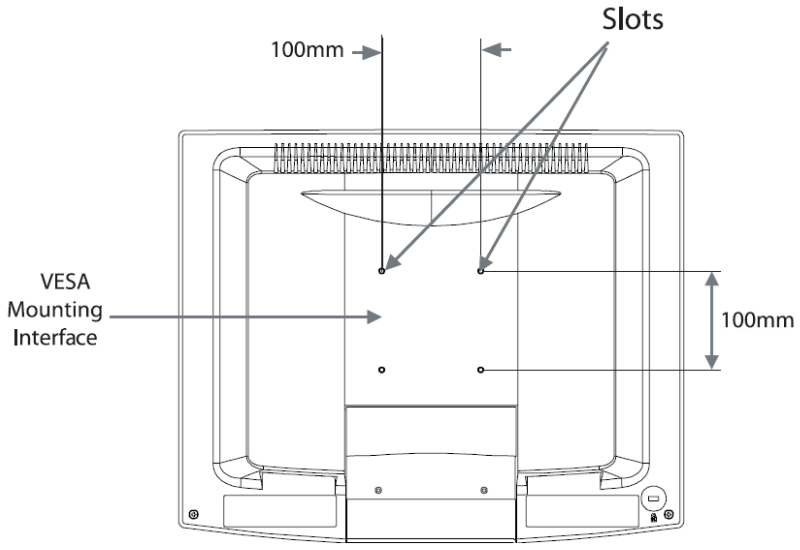
The monitor can be secured to your desk or any other fixed object with Kensington lock security products. The Kensington lock is not included.



VESA Mount your monitor

This monitor conforms to the VESA Flat Panel Mounting Physical Mounting Interface Standard which defines a physical mounting interface for flat panel monitors, and corresponding standards for flat panel monitor mounting devices, such as wall and table arms. The VESA mounting interface is located on the back of your monitor.

To mount the monitor on a swing arm or other mounting fixture, follow the instructions included with the mounting fixture to be used.



⚠***Warning!***

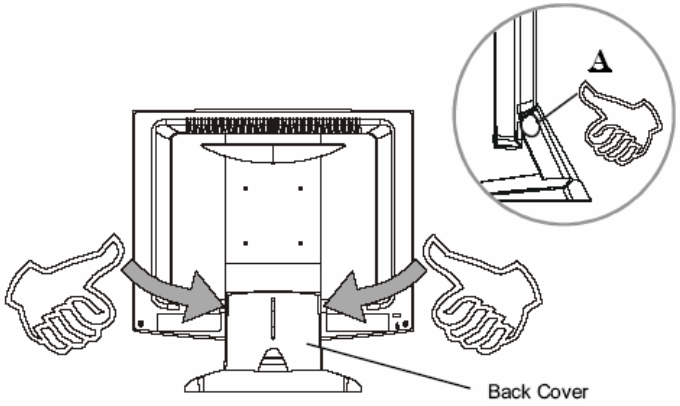
Please select the proper screws!

The distance between the back cover surface and the bottom of the screw hole is 8mm Please use M4 screw diameter with a maximum length of 8 mm.

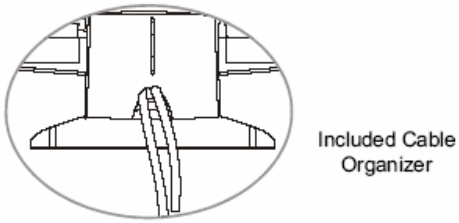
Start Your Installation

◆ Remove the Back Cover

Please follow these instructions to remove the cover on the back panel of the LCD so that you can connect the cables in “Connector Ports A.”



1. To remove the back cover, follow the arrows in Figure A and press with both your thumbs. The cover should be removed by pressing firmly along the edges while pulling on the cover.
2. Follow the instructions on P. 11 (Figure 11.1) to connect the cables in “Connector Ports A.”
3. Fix the cover back to the LCD by pressing firmly until the tabs snap into place. You may also keep the cables in order by using the cable organizer.



⚠ ***Note!***

You can place the LCD flat horizontally to make it easier to connect the cables. Please make sure that you place it on an even surface lest the LCD should be damaged by scratches or collision.

◆ Connecting the Display (Figure 11.1)

To setup this display, please refer to the following figure and procedures.

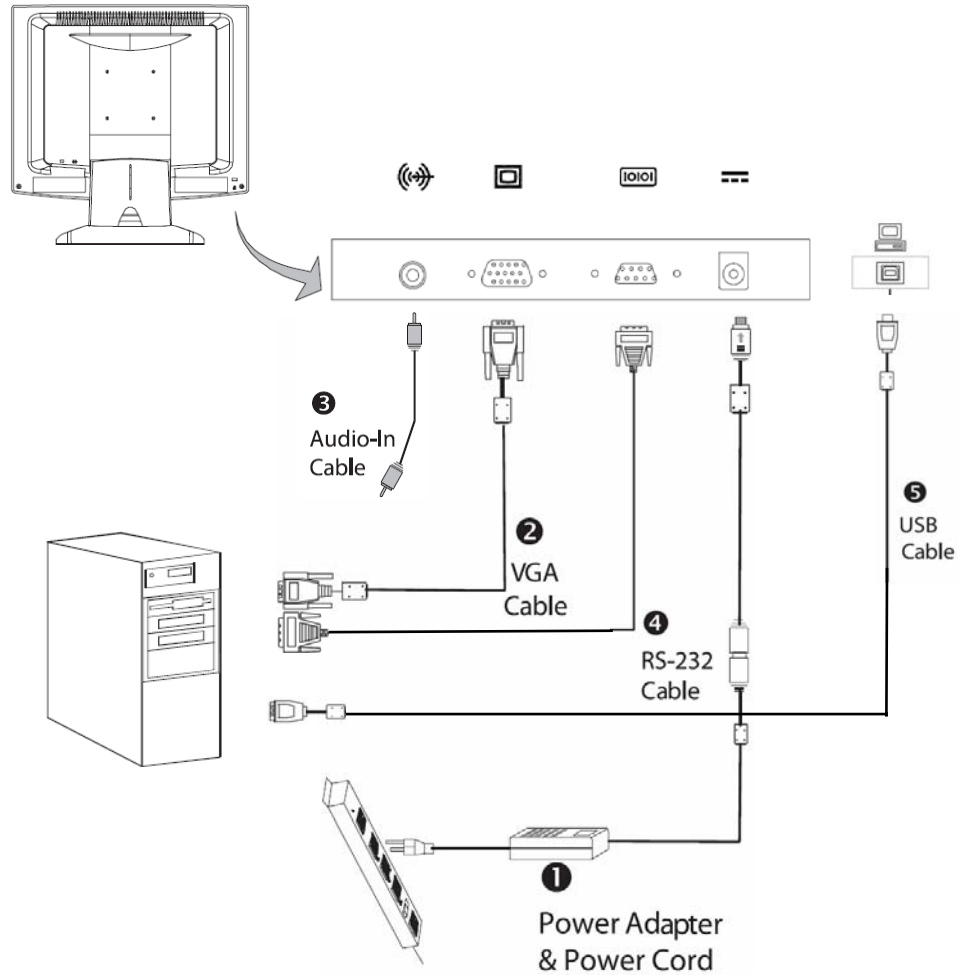
1. Be sure all equipment is turned off.
2. Connect the DC power cord to the power connector on the monitor; plug one end of the AC power cord into the power adapter, and the other end into an electrical outlet (11.1❶).
3. Connect the VGA signal cable from the display's VGA input connector to the 15-pin connector of your host computer and tighten the screws (11.1❷).
4. Connect the Audio-In cable from the audio input port of your display to the Audio-out port of your computer (11.1❸).
5. Connect the RS-232 or USB cable from the RS-232 or USB port of your display to the RS-232 port (11.1❹) or USB port (11.1❺) of your computer.
6. Configure the touch screen. Refer to the "Touch Screen Driver Installation section on **Page 20.**
7. Once the touch screen is configured, the monitor is ready for use.

⚠ ***Notice!***

To ensure the LCD display works well with your computer, please configure the display mode of your graphics card to make it less than or equal to 1280 x1024 resolution and make sure the timing of the display mode is compatible with the LCD display.

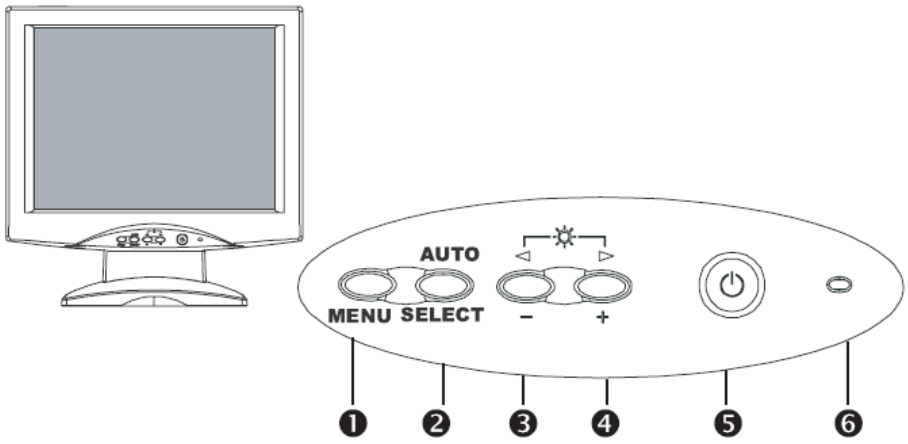
We have listed the compatible "Video Modes" of your LCD display in the appendix for your reference.

Figure 11.1


❸
Audio-In
Cable
❷
VGA
Cable
❹
RS-232
Cable
❺
USB
Cable
❶
Power Adapter
& Power Cord

User Controls

Front Panel Controls



No / Icon	Control	Function
❶ **MENU**	Menu button	Display the OSD menus
❷**SELECT/AUTO**	Select/Auto	Select – To select the adjustment items from OSD menus. Auto – To activate the "Auto Adjustment" function to obtain an optimum image.
❸ ◀	Brightness Minus/Minus	1. Decreases the brightness of the display image. 2. Decreases value of the adjustment items.
❹ ▶	Brightness Plus/Plus	1. Increases the brightness of the display image. 2. Increases value of the adjustment items.
❺ ⏻	Power Switch	Switches on/off the power of the LCD display.
❻	Power LED	1. Green indicates the display is turned on. 2. Amber indicates the display is in power-saving mode.

How to Use the OSD Menus

1. Press the "MENU" button to pop up the “on-screen menu” and to select among the four Main Menus.

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

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

4. The OSD menu will automatically close, if you have left it idle for a pre-set time.

5. To disable the OSD menu buttons, please follow the instructions below:

   (**Please note:** the monitor has to be ON with a valid signal preset)

   a. Press and hold the “-“ and “Menu” key simultaneously for 4 seconds.

   b. The wording “OSD Locked” will appear for 4 seconds on the monitor. This indicates that all the front buttons, with the exception of the power button, are now disabled.

6. To enable the OSD menu buttons, please follow the instructions below. (**Please note:** the monitor has to be ON with a valid signal present.)

   a. Press and hold the “-“ and “Menu” key simultaneously for 4 seconds.

   b. The wording “OSD Unlocked” will appear for 4 seconds on the monitor. This indicates that all the front buttons are now enabled

On-Screen Display Menus

Main OSD Menu:

MAIN MENU	SUB MENU	Function Description
Auto-Adjustment	No/Yes	Choose this function to obtain an optimum image.
Contrast	0-100	Adjust the contrast of the display image.
Brightness	0-100	Adjusts the brightness of the image.
Horizontal Position	0-100	Changes the horizontal position of the image.
Vertical Position	0-100	Changes the vertical position of the image.
Clock	0-100	Changes the display data frequency to match the frequency of your graphic card. When you are experiencing vertical flickering bar, use this function to make an adjustment.
Phase	0-63	Synchronizes the signal timing of the display to that of the graphic card. When you are experiencing vertical flickering image, use this function to make an adjustment.
Display Mode	ADJ	Select this function to view the display resolution, vertical refresh, and horizontal scan of the current mode.
OSD Off-Time	5-60	Adjusts the time period for OSD menu to disappear.
Language	English / Francais Deutsch / Espanol Italiano / 日本語	Choose the language you need.
Sharpness	1-4	Adjust the sharpness of the image.
Reset	No/Yes	Returns the display parameters of the current mode to its factory default settings.
Volume	0-32	Controls the sound volume.
Mute	No/Yes	Disables the sound immediately.
Color Setting	9300K / 6500K Preset / Custom	Adjusts the color temperature.
Color Adjustment-Red	0-100	It allows you to adjust the red color of the display.
Color Adjustment-Green	0-100	It allows you to adjust the green color of the display.
Color Adjustment-Blue	0-100	It allows you to adjust the blue color of the display.

Appendix

Troubleshooting

If you are experiencing trouble with the LCD display, refer to the following. If the problem persists, please contact your local dealer or our service center.

Problem: No image appears on screen.

- Check that all the I/O and power connectors are correctly and well connected as described in the “Installation” section.
- Make sure the pins of the connectors are not crooked or broken.

Problem: Partial Image or incorrectly displayed image.

- Check to see if the resolution of your computer is higher than that of the LCD display.
- Reconfigure the resolution of your computer to make it less than or equal to 1280 x 1024.

Problem: Image has vertical flickering 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 securely connected.
- Check and reconfigure the display mode of the vertical refresh rate of your graphics card to make it compatible with the LCD Display.

Problem: Vague image (characters and graphics)

- Use "Clock" to make an adjustment. If this problem still exists, 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 graphics card. Check all the power switches, power cables, and VGA signal cable.

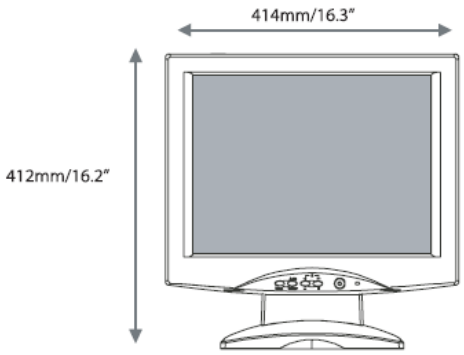
Going to sleep

The LCD is under the power saving mode, in addition, the LCD will go into this sleep mode when experiencing a sudden signal disconnecting problem.

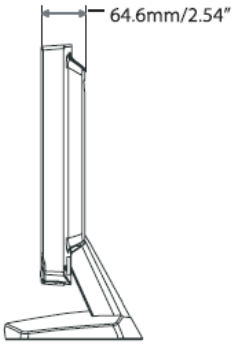
Out of Range

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.

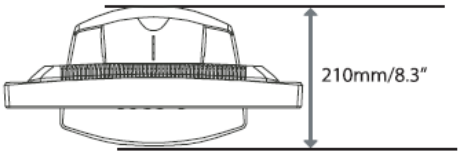
Product Dimensions



Front View



Side View



Top View

Compatibility Modes

Mode	Resolution	V. Frequency (Hz)	H. Frequency (kHz)
IBM VGA	640 x 350	70	31.5
IBM VGA	720 x 400	70	31.5
IBM VGA	640 x 480	60	31.5
VESA VGA	640 x 480	72	37.9
VESA VGA	640 x 480	75	37.5
VESA SVGA	800 x 600	56	35.2
VESA SVGA	800 x 600	60	37.9
VESA SVGA	800 x 600	72	48.1
VESA SVGA	800 x 600	75	46.9
VESA XGA	1024 x 768	60	48.4
VESA XGA	1024 x 768	70	56.5
VESA XGA	1024 x 768	75	60.0
VESA SXGA	1280X1024	60	64.0
VESA SXGA	1280X1024	75	80.0
Apple Mac II	640 x 480	67	35.0
Apple Mac	832 x 624	75	49.7
Apple Mac	1024 x 768	75	60.2

*** For Mac operating systems, a third-party touch driver is needed. Visit www.touch-base.com to obtain the driver.**

Touch Screen Driver Installation

The touch driver is located on the enclosed CD-ROM for these operating systems: Windows Me/2000/XP series.

Driver Installation Process:

1. Before you start to install the touch driver, please be sure the USB or the RS-232 Serial cable is disconnected from the PC or the LCD display.
2. Uninstall any touch screen driver (excluding Gunze) tha may be on your system.
3. Click on the PT1710MX driver link found on the CD-ROM.
4. Follow instructions as found in the driver installation process and the Touch Set-Up Guide on the CD-ROM.
5. After installation is complete, click “Finish” and restart your computer to complete installation.

Touch Panel Setting and Calibration:

1. After restarting your computer, click “Start” on the Windows toolbar.
2. Select “All Programs” and select “Gunze TPDD”.
3. Select “Adjust Settings”.
4. Select “Devices” tab and click “Add”.
5. Select “Gunze USB” if using a USB cable to connect between the monitor and PC from the **New Pointer Device** menu. See Figure 1.

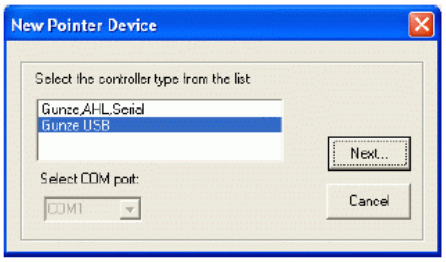


Figure 1

6. For RS-232 Serial connection select “Gunze, AHL, Serial” and the COM port to connect to the touch panel. See Figure 2.

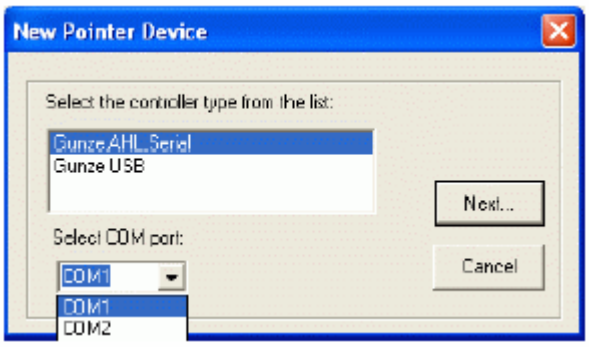


Figure 2

7. The operation area of the touchscreen can be assigned by the “Logical desktop segment” function. Select your preference. Most common choice will be “Whole Desktop” or “Primary Monitor” if you have multiple monitors. See Figure 3.

Figure 3

8. The Touch Panel Device Properties screen appears again. Click “Apply”. See Figure 4.

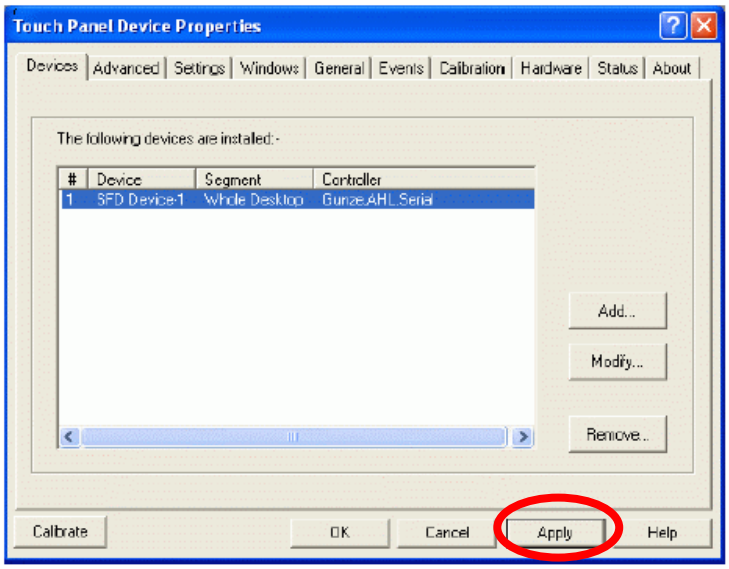


Figure 4

9. After clicking “Apply” connect your USB or RS-232 cable from your display to your PC.
10. Steps 11-14 apply to USB connection only. For Serial connection go to Step 15.
11. “Found New Hardware Wizard” screen will appear. Follow on screen instructions.
12. When the “Hardware Installation” screen appears, click “Continue Anyway”.
13. “Found New Hardware Wizard” screen re-appears in the case of MS operating system Windows XP SP2. Choose “No, not this time” and click “Next”.
14. “Found New Hardware Wizard” screen appears. Click “Finish”.
15. Restart your computer to complete installation.
16. From the MS Windows Tool Bar Select “Start”. Select “Programs” and select “Gunze TPDD” and select “Calibrate”. See Figure 5.

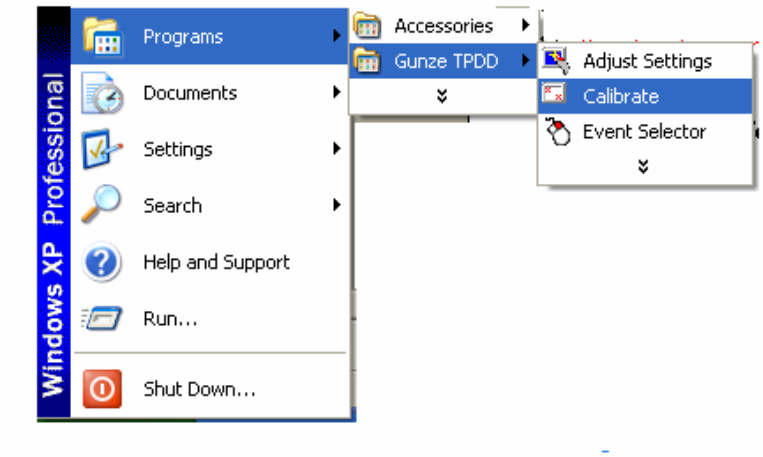


Figure 5

17. Make contact with the “X” markings on the screen. Be sure your stylus or finger is centered on each “X” point See Figure 6.

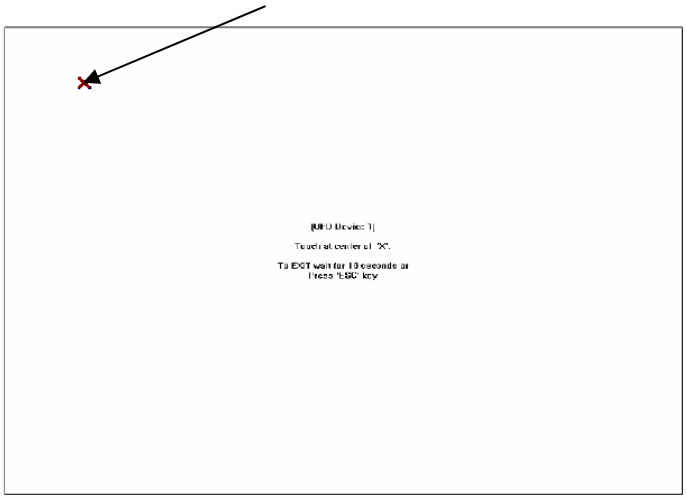


Figure 6

18. Your touchscreen is now calibrated and is ready for operation.

Uninstall Instructions

1. Click “start” in the Windows toolbar.
2. Select “Gunze TPDD” and select “TPDD Uninstall”.
3. Follow instructions.
4. Alternate method of uninstall is to use Windows “Control Panel”.
5. Select “Add or Remove Programs”.
6. Select “Gunze TPDD” and click “Change/Remove”.
7. Follow instructions.

Planar Systems, Inc.

Customer Service

24x7 Online Technical Support: http://www.planar.com/support

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