



America Sales

Planar Systems, Inc.
1195 NW Compton Drive
Beaverton, OR 97006-1992 USA
(503) 748-1100 phone
(503) 748-1493 fax

Medical Sales

Planar Systems, Inc.
400 Fifth Avenue
Waltham, MA 02451-8738 USA
(781) 895-1155 phone
(781) 895-1133 fax

Customer Support

Visit www.planar.com
E-mail: medicalsupport@planar.com
Call (866) PLANAR1

For more information

Download the full version of the *Dome E3n User's Guide* and the latest driver from the Planar web site.

Europe Sales

European Representative
Planar Systems, Inc.
Olarinluoma 9, P. O. Box 46
FIN-02201 Espoo, Finland
+ 358 9 420 01 phone
+ 358 9 420 0200 fax
vertrieb@planar.com
medicalsupport@planar.com
www.planar.com

Asia-Pacific Sales

Planar Systems China Limited
Eton Plaza, 20/F, #2001
555 PuDong Avenue
Shanghai, 200120
Peoples Republic of China
+86 21 58765050 phone
+86 21 58765450 fax
sales@planar.com.cn
support@planar.com.cn
www.planar.com.cn



Dome E3n Display

Quick Reference

Windows XP
Windows 2000

Before You Begin

Check that your system meets these requirements for installation of the Dome E3n display system. The display is compatible with the Dome DX2 or the AX5 board.

Controller	System Requirements	Operating System
DX2	<ul style="list-style-type: none">• PCI slot per board (64-bit recommended)• 50 MB hard disk space• 256 MB RAM• CD-ROM drive	Windows XP Service Pack 2 or Windows 2000 Service Pack 4
AX5	<ul style="list-style-type: none">• Intel Pentium 4/Xeon; AMD Athlon 64/K7/XP or compatible• PCI Express x16 lane slot• 50 MB hard disk space• 512 MB RAM• CD-ROM drive• Power supply, 350 watts or greater	

Increasing the PCI Bus Performance (PCICacheMode registry entry)

On systems with 64-bit PCI slots, use the display driver to enable write-combining for the display controller. Enabling this function can improve video performance on the board by 100% or more.

The results: faster image loads, increased window and level speed, and enhanced system performance.

For more information, visit www.planar.com.

Safety Precaution

Wear an antistatic heel or wrist strap when installing the video card to avoid damage to computer components.

Warning Advertencia 警告
Avertissement Warnung
Avvertenza 경고



Regulatory Compliance

This display has been tested and found to comply with IEC/EN 60601-1 and IEC/EN 60601-1-2 standards, and is certified to meet medical standard C22.2 No. 601.1-M90 (C US Mark).

The medical display, in addition to meeting medical requirements, has been tested and found to comply with the limits for Federal Communications Commission (FCC) Class B computing devices in a typically configured system since many medical offices are located in residential areas. It is the system integrator's responsibility to test and ensure that the entire system complies with applicable electromagnetic compatibility (EMC) laws.

Certifications also include CCC, CE, MIC, Semko, TÜV GM, and VCCI.

Standard Warranty — Summary

- Standard 1-year "repair and return" warranty
- Industry-leading 10-year backlight warranty on grayscale displays*
- Typical repair turnaround time of 10 business days

* If, within 10 years of initial purchase, the maximum output of the Dome E3n grayscale display is determined by Planar Systems to be less than 300 cd/m², Planar will repair or replace the display at its sole discretion.

Cleaning the LCD Screen



Use a dry, clean, lint-free cotton cloth to remove surface dust from the display screen. Do not use chemically treated dust cloths.

To remove grease or organic contaminants

- 1 Disconnect the power supply from the display.
- 2 Dampen a soft, clean cloth with water or a mild cleanser and wipe the display screen gently with the cloth.
- 3 Use a dry, clean, lint-free cloth to wipe off the residue.

Always wipe off water and other stains immediately to avoid damage to the display screen.



Do not spray or use acetone, toluene, or harsh solvents on the display case or screen.



Do not touch the LCD screen with your fingers. Skin oils are hard to remove from the screen.



Do not saturate the cleaning cloth. Liquid that drips on the glass may seep into the display case.

Unpacking the Display

Check the contents of your Dome E3n display package for all the items shown here. Save the original packaging materials for storage and shipping.



Dome E3n



Display controller



Dome E3n and Dome CXtra quick references



Power block



Power cord



DVI-to-DVI video cable



Dome display driver and Dome CXtra CDs

Guidelines

- Use both hands to lift or adjust the display.
- Avoid touching the display screen.
- Do not set up the display in areas with sudden temperature changes and strong light sources.
- Do not block the vents on the back of the display.
- Do not remove the back cover or disassemble the display.
- In locations where 240V outlets are used, connect the display only to a center-tapped, 240V, single-phase supply.

Setting DIP Switch S2

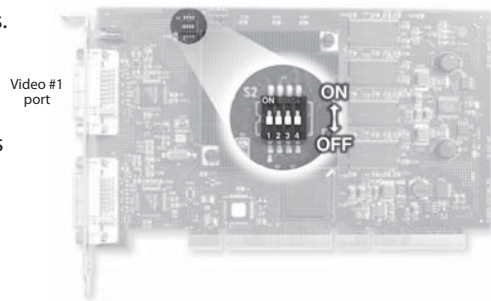
If you are installing the Dome DX2 display controller, you will need to set DIP switch S2 for your system configuration.

Slide switch 1 into the ON position to enable VGA mode. Enable VGA on only one (1) board when you install multiple boards. Disable VGA on all boards if you are using a separate VGA card.

For some Dell systems, you may need to enable VESA modes in order to see output on the screen. If so, slide switch 2 into the ON position.

For single desktop mode, slide switch 3 into the ON position.

DX2		
DIP Switch S2	Function	Position
1	VGA	ON
2	VESA	ON
3	Single Desktop	ON



Product Information

The design of the Dome E3n digital display takes into account every known measure to ensure your personal safety. Improper use of the display can result in electric shock, fire, or damage to the display.

Intended use

The Dome E3n display is an AMLCD display designed for viewing medical X-ray images. This unit should not be used near patients; keep the unit outside of 1.83 m perimeter and 2.29 m vertical. This unit should not be used for primary image diagnosis in mammography.

Important recycle instruction



HAZARDOUS SUBSTANCE. 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.



RECYCLING. Do not use household or municipal waste collection services for disposal of electrical and electronic equipment. EU countries require the use of separate recycling collection services.



ENVIRONMENT-FRIENDLY USE PERIOD. The number encircled by the recycling symbol indicates the safe-use period (in years) of the product. China requires the use of recycling services at the end of product life for electronic devices containing toxic or hazardous substances.

Troubleshooting

Problem	Possible Cause	Solution
No image appears on the screen.	Computer is OFF. Power cord is not securely connected. Video cable connected incorrectly.	Power on the machine. Tighten power cord connection and turn on computer. Make sure the first display of a dual-headed system or the only display of a single-headed system is connected to the Video 1 port on the Dome DX2 display controller.
VGA not enabled.	Incorrect DIP switch settings.	You may need to remove the Dome DX2 display controller to check the DIP switch settings. You can enable VGA on the Dome DX2 display controller or use a separate VGA card.
Unable to set the maximum or native resolution of the display.	The function Hide all modes that this monitor cannot display is selected on a subdialog of the Windows Display Properties dialog.	Make sure the check box for the function is empty (unchecked).

Installing the Display Controller



Before you install the display controller, turn your computer off. Leave the power cord plugged into the grounded outlet.

To install the controller

- 1 Turn off all peripherals. Disconnect all cables from the back of your computer.
- 2 Remove the computer cover.
- 3 Remove the blank bracket from the available PCI or PCI Express slot.
- 4 Insert the display controller into the slot, align the connector pins, and press the board down until it is firmly seated.
- 5 Secure the mounting bracket.
- 6 Reattach the computer cover and the peripherals.

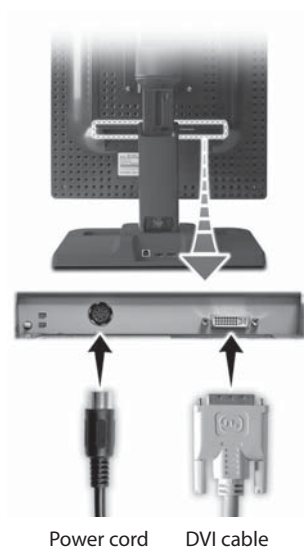
When installing multiple display controllers, install all boards before you install the driver.

Connecting the Display

Use only the cable and power cord supplied with the Dome E3n display.

To connect the display

- 1 Press the PUSH button on the desk stand and remove the stand cover.
- 2 Plug one end of the DVI cable into the DVI connector port. Tighten the thumbscrews to secure the connection.
- 3 Plug the power cord into the power input port.
- 4 Plug the other end of the DVI cable into the video port on the installed display controller. Use DVI port #1 to install only one display.
NOTE: The top port of the Dome DX2 board is the primary (DVI #1) port. The bottom port of the AX5 board is the primary (DVI #1) port.
- 5 Plug the other end of the power cord into a grounded outlet.
- 6 Thread the cable and cord through the stand column and reattach the stand cover.
- 7 Power on your display first, then the computer.



Power cord DVI cable

Display Resolutions and Palette Options

Display	Resolution	Palette	Bits per pixel
Dome E3n	1536 x 2048	Dynamic Gray Nonlinear Gray Static Gray	8
	2048 x 1536		
	3072 x 2048*		
	4096 x 1536†		
	1536 x 2048	True color	32
	2048 x 1536		
	3072 x 2048*		
	4096 x 1536†		

* Single desktop in portrait mode on a dual-display system, using Dome DX2 board only.

† Single desktop in landscape mode on a dual-display system, using Dome DX2 board only.

To set the display mode manually

- 1 Right-click the desktop and select Properties > Settings.
- 2 Select the monitor that you want to change. Then click Advanced.
- 3 Click the Monitor tab. Make sure that the check box for Hide modes that this monitor cannot display is empty (unchecked).
- 4 Click the Adapter tab, then click the List All Modes button.
- 5 Choose the mode and click OK.
- 6 Click Apply or OK.

To use a dual-display configuration

- 1 Right-click the desktop and select Properties > Settings.
- 2 Click the monitor icon 2. Then select Extend my Windows desktop onto this monitor.
- 3 Set the resolution and color quality of the second display.
- 4 Click Apply or OK.

To set the brightness

Install the Dome CXtra software to change the display brightness. Adjust the value of the white level on the Backlight tab of the RightLight Panel Configuration dialog.

Installing the DX Display Driver

Before you install the driver, remove any previously installed display driver from your system.

To install the driver

- 1 Log on with administrator privileges. The InstallShield Wizard reports new hardware.
- 2 Click Cancel. You must run Setup.exe to install the driver.
- 3 Insert the W2KDXPCI CD and open the CD folder.
- 4 Double-click Setup.exe.
- 5 Click Next to proceed and start copying files.
- 6 If the Digital Signature Not Found message appears, click Yes or Continue to complete the driver installation.
- 7 Select Yes, I want to restart my computer now, and click Finish.

To enable the display

- 1 Log on with administrator privileges.
- 2 Right-click the desktop. Select Properties > Settings.
- 3 Select the display icon.
- 4 Select Extend my Windows desktop onto this monitor. Click Apply.
- 5 Click OK.

To change the display properties

Use the Dome tab to change display properties after the Dome E3n display is attached to the Windows desktop. Otherwise, use Properties > Settings tab.

Auto-orientation

When powering on or resetting your computer, the orientation of your panel is detected automatically, whether portrait or landscape. The default setting is ON. Use the Dome tab to disable this function.

To set the resolution palette

Use the Resolution field on the Dome tab to manually set the resolution to portrait or landscape.

- 1 Log on with administrator privileges.
- 2 Right-click the desktop. Select Properties > Settings.
- 3 Select the Plug and Play Monitor on Dome DX2/PCI Properties from the Display list.
- 4 Select Extend my Windows desktop onto this monitor. Click Apply.
- 5 Select Advanced > Dome.
- 6 Choose a resolution and palette option. Click Apply.
- 7 Click OK until you return to the desktop.

To set brightness

In the Brightness field of the Dome tab, slide the scroll box left or right, or use the left and right arrows, to adjust each panel. (The default brightness is 100%.) Click OK. (NOTE: If the Dome CXtra software is running, the brightness function on the tab is disabled.)

Installing the AX Display Driver

Before you install the driver, remove any previously installed display driver from your system.

To install the driver

- 1 Start the system. Click Cancel on the Found New Hardware Wizard. Click No when the system prompts you to restart the computer.
- 2 Insert the driver installation CD and run Setup.exe.
- 3 Click Next.
- 4 Click Yes to the license agreement. The installation starts.
- 5 Follow the onscreen instructions to complete the installation. Planar recommends that you select the Express installation option.
- 6 When the Setup complete message appears, select Yes, I want to restart my computer now and click Finish.
- 7 If the Digital Signature Not Found message appears, click Yes or Continue to complete the driver installation.

To configure the display

- 1 Right-click the desktop and select Properties > Settings.
- 2 Use the native resolution of the display.
- 3 Click OK.