

PLANAR



SD2620W

Stereoscopic Monitor

USER'S GUIDE

www.planar3d.com

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Usage Notice



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

Do not open or disassemble the product, as doing so may cause electric shock.

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

Do

- Turn off the monitors before cleaning.
- Use only a dry, soft cloth or clean room wipe when cleaning the LCD panel surface or the half-mirror.
- Use a soft cloth moistened with water and/or mild detergent to clean the display housing and stand.
- Use only high quality and safety approved AC/DC power adapters.
- Disconnect the power plug from the grounded AC outlet if the product will not be used for a long period of time.

Don't

- Do not touch the LCD panel or half-mirror surfaces with sharp or hard objects.
- Do not use abrasive cleaners, waxes, or solvents for your cleaning.
- Do not operate the product under these conditions:
 - In an extremely hot, cold, or humid environment
 - In areas susceptible to excessive dust and dirt
 - Near any appliance generating a strong magnetic field
 - In direct sunlight

Box Contents

The SD2620W shipping box contains the following components:



Bottom monitor assembly with mirror support arms and mirror adjustment screws



Bottom cable management cover



Top monitor assembly



Top cable management cover



Beamsplitter assembly



Two power cords (6-ft and 10-ft)



Two DVI cables (6-ft and 12-ft)



Two Analog VGA cables (6-ft and 10-ft)



Mirror-flip PCI card



Short DVI cables (14-in)



Product user's guide



Captain-style glasses (2 ea)



Spring clip-style glasses (1 ea)



Terminator-style glasses (2 ea)



Soft, dry cloths (3 ea)



Moistened cleaning pads (6 ea)

NOTE: Both the Captain-style and the Terminator-style glasses, for use with the SD2620W monitor, feature the Planar logo on each side and white arm tips. These two markers differentiate the glasses from those shipped with other stereo monitors.

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Stereoscopic Viewing

We live in a three-dimensional world. The human visual system can process the slightly different views of the world and translate the views into the perception of depth. This process is called stereopsis.

In the last two centuries much effort has been devoted to the reproduction of depth perception, primarily with photography and more recently with computer graphic images.

Stereoscopic/3D viewing can help a viewer make faster, more accurate, and more enjoyable interpretations of imagery. The SD2620W StereoMirror™ monitor, in particular, creates an unprecedented level of stereo/3D viewing quality and viewer comfort.

Stereo viewing is useful for the following applications:

- Photogrammetry and remote sensing
- Geospatial image analysis
- Geophysical modeling
- Molecular modeling
- Computer games
- Oil and gas exploration
- Architecture and mechanical design
- Stereo photography or videography
- Medical imaging (not as yet FDA 510(k) approved)
- Surgical planning
- Teaching of anatomy
- Simulation
- Complex data analysis



The StereoMirror monitor

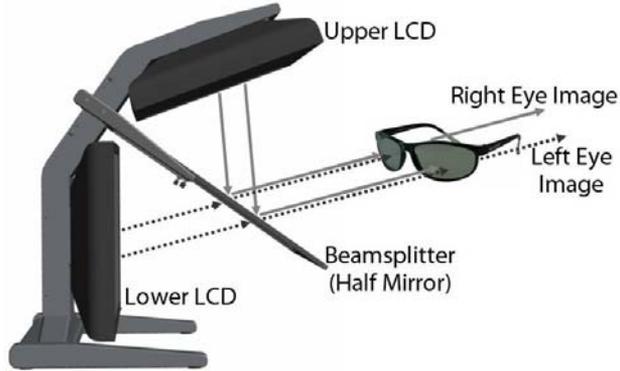


For some individuals, prolonged use of any stereoscopic monitor may cause discomfort. Take a break from stereo viewing if you sense eye fatigue. Individuals who are unaccustomed to using stereoscopic 3D monitors may require a period of adaptation.

StereoMirror™ Technology

A StereoMirror™ monitor consists of two AMLCD (Active Matrix Liquid Crystal Display) units, oriented at a 110° angle and mounted on a specially designed stand. A passive beamsplitter mirror bisects the angle formed between the two monitors, and there is a fine mechanical adjustment for the mirror angle between the two displays. One side of the glass mirror has a reflective coating, and the other side has an anti-reflective coating to minimize secondary reflections. The mirror has been treated with a hard top coating to accommodate cleaning.

In general, the objective of a stereoscopic display is to efficiently present a left eye image solely to the left eye while the right eye image is directed to the right eye. This allows the human visual system to



Operating principle of the StereoMirror monitor

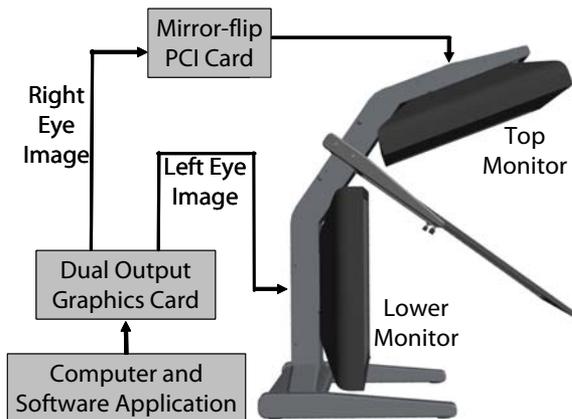
merge the two images and results in the perception of depth, or stereopsis. In the StereoMirror™ design this stereo separation is achieved using the principle of conservation of polarization.

Liquid crystal displays operate based on the ability of liquid crystal material to modulate plane-polarized light. The two AMLCDs in the SD2620W model have been manufactured so that the polarized light emitted from the top monitor is 90° rotated from that of the bottom monitor. The image from the lower monitor is seen through the mirror, as shown in the illustration above. When stereo pair images from the two monitors are viewed through crossed-polarizing glasses (glasses with polarizing films mounted on the eyepieces with their planes of polarization at a right angle to one another), the user only sees the left eye image with the eyepiece having the 90°-oriented polarizer and the right eye image with the eyepiece having the 0° polarizer. Light with a perpendicular polarization is not transmitted. The result is a single, fused stereoscopic image.

A block diagram describing the process of driving a StereoMirror™ monitor with a computer is shown below. The left eye and right eye images are sent to their respective AMLCDs independently and without any special treatment (with the exception of accommodating for the fact that the upper monitor is seen in a mirror; see discussion below). Presenting the stereo pair of images requires a setup or software application that accommodates dual-monitor stereo viewing. No additional modification is needed for use with the StereoMirror™ monitor design.

Any software application that uses the OpenGL quad-buffered stereo features is compatible with the StereoMirror.™ Quad-buffered stereo is a feature of the OpenGL 3D graphics library that allows an application to define two separate right/left eye viewpoints instead of the normal single monoscopic viewpoint. The two viewpoints are defined to give the correct parallax separation for the proper stereo effect. Once the two viewpoints have been defined, the 3D scene is rendered identical for each of the two viewpoints. Many commercial 3D applications already have stereo viewing modes using the OpenGL stereo features.

Since the upper display of the monitor is seen in reflection, a mirror-flip operation must be performed on that data path. In the current product this is accomplished using an auxiliary signal processing board in the data path to the upper monitor. Driving a StereoMirror™ monitor is identical to driving a pair of projection displays used to show stereoscopic images with crossed polarizers in the two separate light paths. An off-the-shelf, dual-output graphics card is employed to drive the two monitors, again with no special preparation.



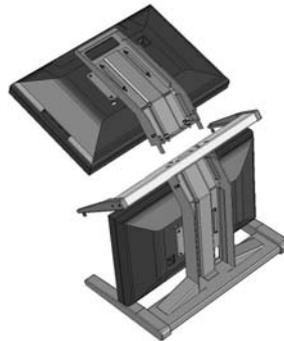
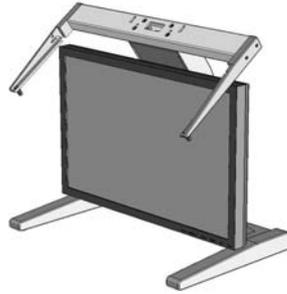
Driving the StereoMirror monitor

Getting Started

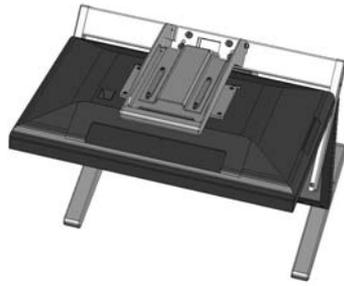
Read all instructions before assembling the monitor. Improper assembly can result in damage to the display components.

Assemble the unit

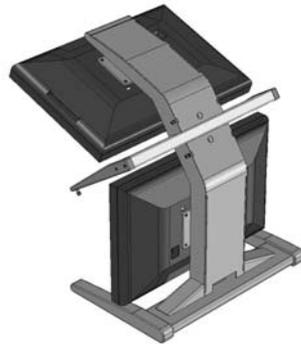
1. Remove the bottom monitor assembly from the shipping box and place it on a sturdy table or desktop. To keep the display surface clean, avoid touching the screen.
2. Remove the top monitor assembly from the shipping box. Loosen the two screws on the cover of the cable management compartment and remove the cover.
3. Slide the aluminum flanges of the upper assembly into the holes on the cross bracket of the bottom monitor assembly until fully seated. Continue to support the top monitor assembly and tighten the four thumb screws.



4. Thread the cables from the top monitor through the rectangular hole in the cross bracket.



5. Replace the top and bottom cable covers, if desired.



6. Remove the beamsplitter from the shipping case. With the StereoMirror™ logo oriented to the lower right, insert the pins located on either side of the mirror frame into the corresponding slots on the mirror support arms. The pins should rest in the fully forward position of the mounting arm slots.



Select a graphics card

The SD2620W unit requires a dual-output graphics card to drive the two monitors with a DVI signal. For professional applications that use OpenGL quad-buffered stereo, the graphics card should support OpenGL stereo as well. Typically, the two monitors should be in clone mode for these applications with stereo enabled.

There are several compatible graphics card families. The NVIDIA Quadro FX line is recommended for OpenGL stereo applications. The NVIDIA GeForce line offers dual-DVI output graphics cards that work well for PC gaming and DirectX applications.

Visit www.planar3d.com for more details on graphics cards, software configuration, and using side monitors with the SD2620W unit.

Install the mirror-flip PCI card



Proper ESD (electrostatic discharge) handling precautions should be exercised when installing the mirror-flip PCI card. Consult the computer manual for proper installation of graphics cards.

Because the viewer will see a reflection of the top monitor, this image needs to be flipped on the horizontal axis. A mirror-flip PCI card is included with the SD2620W unit. Plug this card into a free PCI slot in your computer. There are no drivers to load with the card.

1. Remove the blank bracket from an available PCI slot.
2. Insert the mirror-flip PCI card into the slot, align the connector pins, and press the board down until it is firmly seated.
3. Secure the mounting bracket.



Mirror-flip PCI card installed

Connect the cables

The SD2620W unit comes with one 6-foot DVI cable, one 12-foot DVI cable, and one 14-inch DVI cable.

1. Plug one end of the 6-foot DVI cable into the primary port of the dual-channel DVI graphics card. Plug the other end into the bottom monitor of the SD2620W unit.
2. Plug one end of the 14-inch DVI cable into the secondary output of the dual-channel graphics card. Plug the other end into the input port (labeled "IN") of the mirror-flip PCI card.
3. Plug one end of the 12-foot DVI cable into the output port of the mirror-flip PCI card (labeled "OUT"). Plug the other end into the top monitor of the SD2620W unit.



Short DVI cable installed



The two monitors must be connected with an off-the-shelf video cable to comply with FCC regulations. Ferrite-core interface cables are provided. This device will not be in compliance with FCC regulations when a non-ferrite-core video cable is used.

Connect the power cords

Two power cords are shipped with the unit. Use only the power cords supplied with the unit.

1. Plug the 10-foot cord into the AC power jack of the top monitor. Plug the 6-foot cord into the bottom monitor. Then plug the power connectors into a grounded outlet.
2. Turn on the power toggle switch on the back and the soft power switch on the front bezel of each of the two LCD monitors.
3. Power up the computer.

Check the alignment

Although the SD2620W unit is aligned during manufacturing, it may require realignment after reassembly at your site. There are two fine adjustment screws located on the mirror support arms. Rotating these screws raises or lowers the beamsplitter mirror. Adjust the screws so that the corners of the reflected image of the upper monitor are aligned with the corners of the transmitted image from the lower monitor.

You may want to use a test image during the alignment process. A sample is available at www.planar3d.com.

Perfect alignment between the two images is not required for stereo viewing. The human visual system is typically adept at "fusing" two images that are slightly shifted relative to each other. This is especially true for horizontal alignment. In a careful manner, try to achieve vertical alignment as closely as possible. Coarse vertical misalignment can cause eye fatigue or headaches since the eyes are accustomed to seeing stereo images from the same vertical position.

Product Use

Operating in 2D mode

Your SD2620W unit can operate either as a 3D stereoscopic monitor or in the standard 2D mode. Converting to 2D viewing can be accomplished by either turning off the power to one of the monitors or by putting the mirror into the locked upright position. To move the mirror to the raised position, use two hands to slide it up the mirror support arms and then raise it until it drops into the locked position. To lower the mirror, use two hands to lift it out of the locked slot and then lower it down onto the fine adjustment screws.



StereoMirror in 2D mode



The mirror should not be forced down. This can break the glass and damage the mirror frame. The mirror must be pulled forward before lowering.

User controls and OSD menu

The two monitors have a power switch on the right side of the bottom bezel and a power toggle switch on the back. The LED indicator next to the Power button shows the monitor power status. When the LED is green, the power is on. When the LED is amber, the monitor is in power-saving mode. The monitor is off when the LED indicator is dark.



Controls and LED indicator

The Source button allows you to select VGA or DVI input. The Menu button activates the OSD (on-screen display) main menu. Use the Exit button to close the OSD menu; this is also a DV mode hot key. The Auto button is a hot key for auto adjusting the display. A four direction (4D+1) button allows you to move up, down, left, and right within the menu systems. Press the four direction button to enter or exit menus.

4D+1 key function definition

This table lists the function definitions of the four direction (4D+1) button.

PUSH KEY DIRECTION	HOT KEY	MENU
Up	Contrast +	Cursor Up
Down	Contrast -	Cursor down
Right	Brightness +	Cursor right / Volume +
Left	Brightness -	Cursor left / Volume -
Center		Item Enter / Exit

Adjusting the Monitor's Display

The monitor has four function control buttons by which you can select among functions shown on the OSD menu. The menu has been designed for easy user-viewing environments.

OSD function menu

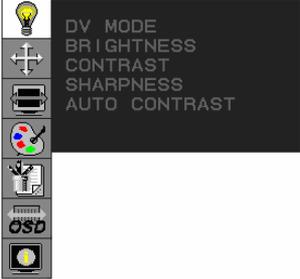
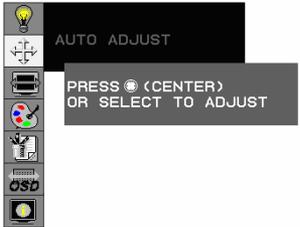
To activate the OSD main menu, press the Menu button. The menu diagram pops up on the screen as shown. Use the 4D+1 key to navigate to the function you want to adjust. Push the 4D+1 key to enter a submenu and adjust the value. Push the 4D+1 key again to exit the submenu. Press the Exit button to close the OSD menu at any time. Press the Menu key to return to the main menu.

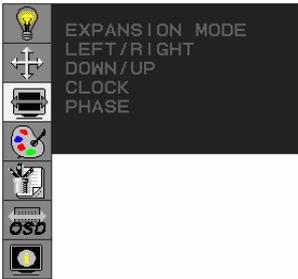


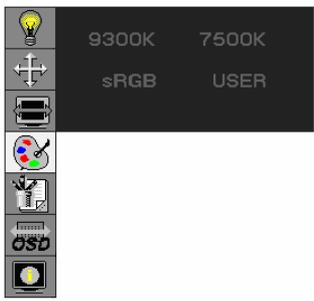
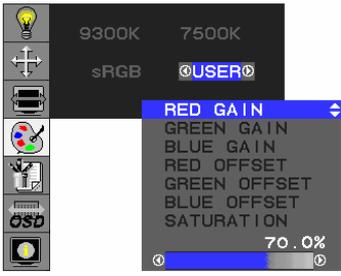
Firmware revision may have been updated into the latest version while the version number shown on the information item in the OSD menu may have remained version 1.

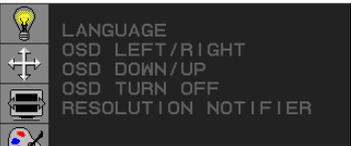
Function description

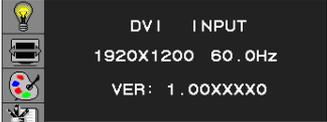
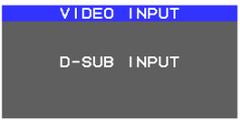
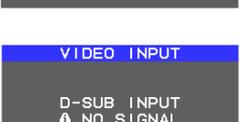
Tables on the following pages describe all the functions on the OSD menus.

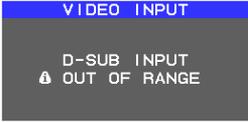
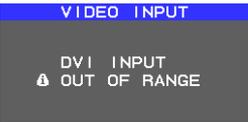
MENU	FUNCTION	FUNCTION DESCRIPTION
	DV MODE	This DV mode display setting can be selected by OSD (STANDARD/TEXT/sRGB/MOVIE/GAMING/PHOTO) Default setting: TEXT
	BRIGHTNESS	Adjust the brightness. Factory setting: 100.0%
	CONTRAST	Adjust the image contrast. Factory setting:50.0%
	SHARPNESS	Adjust the sharpness. Factory setting: 50%
	AUTO CONTRAST (Analog Input only)	Adjust the CONTRAST to the optimal value for the video-input level automatically.
	AUTO ADJUST (Analog Input only)	Adjust the H.POSITION, V.POSITION, H-SIZE, and FINE to the optimal value automatically.

MENU	FUNCTION	FUNCTION DESCRIPTION
	<p>EXPANSION MODE</p> <p>LEFT/RIGHT (Analog Input only)</p> <p>DOWN/UP (Analog Input only)</p> <p>CLOCK (Analog Input only)</p> <p>PHASE (Analog Input only)</p>	<p>This function allows you to choose from different display modes:</p> <ul style="list-style-type: none"> • Full: Expands all resolution to full screen. • Aspect: Enlarges native resolution to either horizontal or vertical limit. • Real: Displays native resolution. • Default setting: FULL. <p>Adjust the horizontal image position.</p> <p>Adjust the vertical image position.</p> <p>Adjust the sync frequency of internal pixel clock.</p> <p>Adjust the value for improve display focus.</p>

MENU	FUNCTION	FUNCTION DESCRIPTION
	<p>COLOR TEMPERATURE</p>	<p>Choose different color temperature (9300K, 7500K, sRGB, USER). Default is USER. USER mode adjustable.</p>
	<p>RED GREEN BLUE GAIN</p> <p>RED GREEN BLUE OFFSET</p> <p>SATURATION</p>	<p>Adjust the contrast and brightness of each color of the white balance.</p> <p>Allows you to adjust the Red/Green/Blue color gain.</p> <p>Allows you to adjust the Red/Green/Blue color offset.</p> <p>Adjust color depth: Increasing this value makes pictures more colorful; decreasing makes pictures less colorful. Adjustable value from -100 to 100. Factory setting: 0</p>

MENU	FUNCTION	FUNCTION DESCRIPTION
	DDC/CI	DDC/CI allows you to control certain settings of the monitor via computer. Default is ON.
	SIDE COLOR	When Full is not selected in the Expansion Mode and the resolution is under the LCD panel native resolution, the picture does not display at full screen. The borders/sides around the picture can be customized.  Adjust Side Color to customize the color of the border/sides around the picture.
	RECALL	Reset all user settings to factory preset value except language selection.
	LANGUAGE	Select a language for OSD menu.
	OSD LEFT/RIGHT	Control the location of the OSD menu on the screen.
	OSD UP/DOWN	Factory setting: Center of the screen.
	OSD TURN OFF	Select OSD Menu turn off time. Factory setting: 45 seconds.
	RESOLUTION NOTIFIER	Resolution notifier activity. Factory setting: OFF

MENU	FUNCTION	FUNCTION DESCRIPTION
	INFORMATION	Provide information about resolution, H/V frequencies, and polarity of the input signal.
		
	INPUT SELECT	This OSD reports the current signal being displayed.
		This OSD will automatically turn off after 2 seconds; you can also press the Exit key to close it.
	OSD WARNING NO SIGNAL	This OSD gives a warning when the selected input signal is not active. After power on or when the input signal becomes inactive, this warning appears.
		No signal OSD is shown after 0.5 seconds from video mode detection. This OSD turns off automatically after 5 seconds, or when you press the Exit key. It then changes to the power saving mode. If the direction key is pressed during power saving mode, this warning OSD opens again.

MENU	FUNCTION	FUNCTION DESCRIPTION
	OSD WARNING OUT OF RANGE	<p>This function gives warning for an input resolution or refresh rate that the monitor cannot display.</p> <p>If video signal is not at the proper timing when the monitor powers on or when the input signal is changed, this message opens. It disappears after 45 seconds, or when you press the Exit key.</p>
		
	AUTO ADJUST (Analog Input Only)	<p>When the monitor is displayed for the first time and the resolution is 800x600 or above, the monitor makes an auto adjustment.</p> <p>To manually execute the Auto Adjust function, press the Auto button.</p>

Target Color Coordinates

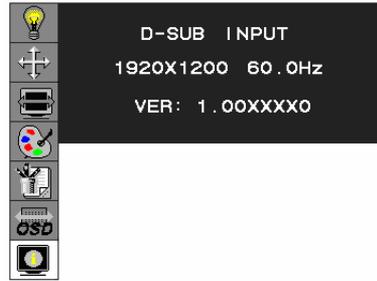
COLOR TEMPERATURE	9300K	7500K	sRGB
u'	0.189	0.194	0.198
v'	0.446	0.459	0.468
x	0.283	0.299	0.313
y	0.297	0.315	0.329

Power Management

This LCD monitor complies with the VESA DPM Power Management guidelines. The VESA DPM provides a power-saving mode through detection of a horizontal or vertical sync signal. A green power indicator light means the monitor has a signal and is working properly. When the LCD monitor is in power-saving mode, the monitor screen is blank and the power LED indicator light is amber. The monitor is powered off when the LED power indicator is dark.

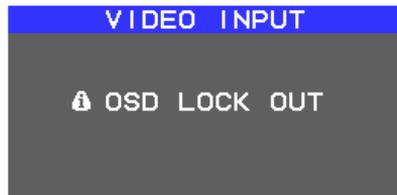
OSD Lock Out Function

OSD Lock Function allows you to lock out the OSD menu and the button keys. To activate the OSD lock function, the monitor must be in a normal display mode with the information menu activated. Then follow the instructions below.



Option 1: OSD lock – All buttons except the Power button are locked. Press Exit key + Menu key + Soft power key at same time.

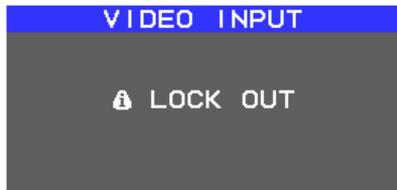
The monitor shows an “OSD Lock Out” message. The Power button can be used to turn the monitor on or off; however, the other menu buttons will not be functional and a warning message will be displayed. Repeat the option key strokes to unlock the OSD menu.



Option 2: OSD & Power button lock – All buttons including the Power button are locked.

Press Exit key + Menu key + Up key at same time.

The monitor shows a “Lock Out” message. The message will be shown when any button is pressed. Press any menu control button to close this message. Repeat the option key strokes to unlock the OSD menu and Power button.



Monitor Specifications

Displays

Size	26" diagonal (583 mm)
Display type	Active matrix color TFT LCD panel
Resolution	1920 x 1200 (WUXGA)
Display dot	1920 x (RGB) x 1200
Display area (mm)	550.08 x 343.8 (H x V)
Pixel pitch	0.2865 mm
Brightness (2D mode, mirror raised)	500 cd/m ² (typical), 400 cd/m ² (minimum)
Brightness (Stereo/3D Mode)	200 cd/m ² (typical, through the glasses)
Contrast ratio (2D mode, mirror raised)	800:1 (typical)
Response time	12 ms (typical, rise + fall)
Response time (gray to gray)	5 ms (typical)
Display color palette	16.7 million colors
Refresh rate	50 to 76 Hz (60 Hz recommended)
Power requirements, input voltage	Single phase, 100 – 240 VAC (50/60 Hz)
Power requirements, input current	1.2 A maximum per monitor
Power supply	Internal
Power consumption	135 W (max) per monitor, 270 W total (4 W total standby)
Product approvals	UL/cUL, CE, FCC-B, TUV/GS
MTBF	50,000 hours at 40°C

Video

Input signal	Analog (VGA), Digital (24-pin DVI-D)
Input impedance	75 Ohm ± 2% (VGA)
Sync input signal	Digital TMDS, separate TTL compatible horizontal and vertical synchronization
Polarity	Positive, negative
Horizontal scan	31 ~ 93.75 kHz
Vertical refresh	60 Hz (Digital) / 50 – 76 Hz (Analog)

Plug and Play

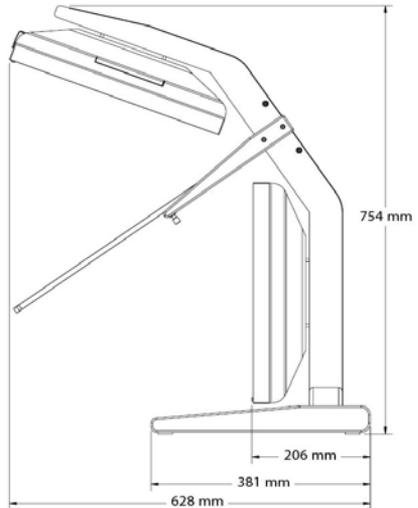
The unit supports the VESA DDC2B functions of Plug and Play.

Environment

Operating conditions, Temperature	5°C - 40°C (41°F - 104°F)
Operating conditions, Relative humidity	20 to 80% (non-condensing)
Storage conditions, Temperature	-20°C to 60°C (-4°F to 140°F)
Storage conditions, Relative humidity	5 to 85% (non-condensing)

Size and weight

System width	23.5" (596 mm)
System depth	24.7" (628 mm)
System height	29.7" (754 mm)
System weight	64 lb (29 kg)



Dimensions of monitor unit, front and side

System Care

Monitors. Turn off the monitors before cleaning. Use a dry, soft cloth, clean room wiper, or compressed air when cleaning the LCD panel surface. A soft cloth moistened with water and/or mild detergent can be used to clean the display housing and stand. Do not touch the LCD panel surfaces with sharp or hard objects. Do not use abrasive cleaners, waxes, or solvents for cleaning.

Mirror. Use a dry, soft cloth, clean room wiper, or compressed air when cleaning the mirror surface. A soft cloth moistened with glass cleaner, water, and/or mild detergent can also be used to clean the mirror. Do not touch the half-mirror surfaces with sharp or hard objects. Do not use abrasive cleaners, waxes, or solvents for cleaning.

Polarized glasses. Use a dry soft cloth, clean room wiper, or compressed air when cleaning the polarized glasses. A soft cloth moistened with water and/or mild detergent can also be used to clean the glasses. Do not touch the surfaces of the polarized glasses with sharp or hard objects. Do not use abrasive cleaners, waxes, or solvents for cleaning.

Software Compatibility

OpenGL. The SD2620W unit is compatible with OpenGL stereo. An appropriate graphics card is required to drive the two monitors with DVI signals. For professional applications that use OpenGL stereo support, the graphics card should support OpenGL stereo as well. Stereo viewing of professional applications is typically done in the so-called clone mode where most of the same information is duplicated on the left and right monitor, except for the stereo imagery. In other words, the desktop, windows, and menus are identical, but the bottom monitor shows the left eye image while the top monitor exhibits the right eye image.

DirectX. The SD2620W unit is compatible with the DirectX application programming interface.

Accessories

For repetitive transportation of the SD2620W unit, a reusable, ruggedized shipping case is available from Planar Systems. The case features a tough plastic shell, locks, customized foam inlay, and wheels.

Additional polarized glasses are available from Planar in three styles: Captain, Terminator, and Spring-Clip (for attaching to prescription glasses).

Contact Planar via the web site (www.planar3d.com) or call toll free at 1-866-475-2627. Accessories can also be purchased through Planar resellers.

Troubleshooting

Problem	Possible Solution
No image appears on the screen.	<ul style="list-style-type: none">• Check that all the power cord connections are secure.• Check that the power buttons on the side and front of both monitors are switched on and that the power indicator light is green.• Check that the DVI cables are securely fastened to the graphics card, the mirror-flip PCI card, and the two monitors.• Make sure that the pins of the DVI connectors are not bent or broken.
Partial image or incorrectly displayed image.	<ul style="list-style-type: none">• Check to see if the resolution of the computer/graphics card is higher than that of the LCD panels (1920 x 1200).• Check to see that the output timing of the video signals is within the synchronous range of the LCD panels (horizontal: 31 – 93 kHz; vertical: 50 – 76 Hz). The “Input Not Supported” message appears on the screen if the timing is not supported by the LCD panel.
Both displays work but there is no stereo functionality.	Be certain the graphics card is properly set up for the dual-monitor stereo mode. If you are using a professional application, make sure that OpenGL settings are enabled. Refer to the owner’s manual for the graphics card.
The stereoscopic image appears to be inverted.	Be certain the video cable to the bottom display is the left channel and the cable to the top display is the right channel. Also make sure that the image sent to the top monitor is mirror-flipped either by software or the mirror-flip PCI card.
Only one display is showing an image.	Be certain that your graphics card is configured for two monitors. Use clone mode, horizontal span (also called stretch mode), or dual-monitor mode configuration. Be sure that all video cables are securely connected.

Warranty

The SD2620W standard warranty includes a 1-year return to depot replacement warranty service. Return the defective part of the system for a replacement with a comparable product.

- All components have a 30-day inspection warranty period
- All system components have a 1-year warranty
- Two business day delivery
- Expedited Delivery Service available
- Extended Warranty Terms are available

Go to www.planar.com for the complete details of the warranty, including support procedure, returning a nonfunctioning unit, extended warranty limitations, and exclusion of damages.

Product Registration

To register your product, go to www.planar.com/support/cust.asp.

CRT Recycling

If your new Planar monitor is replacing a CRT unit, keep the following in mind:

- If the CRT unit is in good working condition, consider donating it to a school or nonprofit organization. It may qualify as a charitable tax deduction.
- Do not throw away a CRT unit. Cathode Ray Tubes contain hazardous materials and cannot be discarded with other refuse. A number of recycling programs are available. Do an online search of “CRT Recycling” for potential service providers in your area.

Important Recycle Instructions



LCD lamps 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.

For more information on StereoMirror™ technology, go to www.planar.com/advantages/whitepapers.

Planar Customer Service

Online Support

For support available 24/7, visit our Online Technical Support page at www.planar.com/support. Online Technical Support is where you can find solutions for common problems, download documentation, view answers to frequently asked questions (FAQs), and get troubleshooting advice. Visit www.planar3d.com for specific questions about configuring the stereo monitor.

Customer First™ Technical Support

Call a customer service representative at 1-866-PLANAR1 (1-866-752-6271). Service is available Monday through Friday, 5 A.M. – 5 P.M. Pacific time (8 A.M. – 8 P.M. Eastern time).

E-mail Support

Send your inquiries to planarsupport@planar.com.



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