

VitalScreen™ S

15" Medically Certified Display

VSS15X / VSS15X-TR

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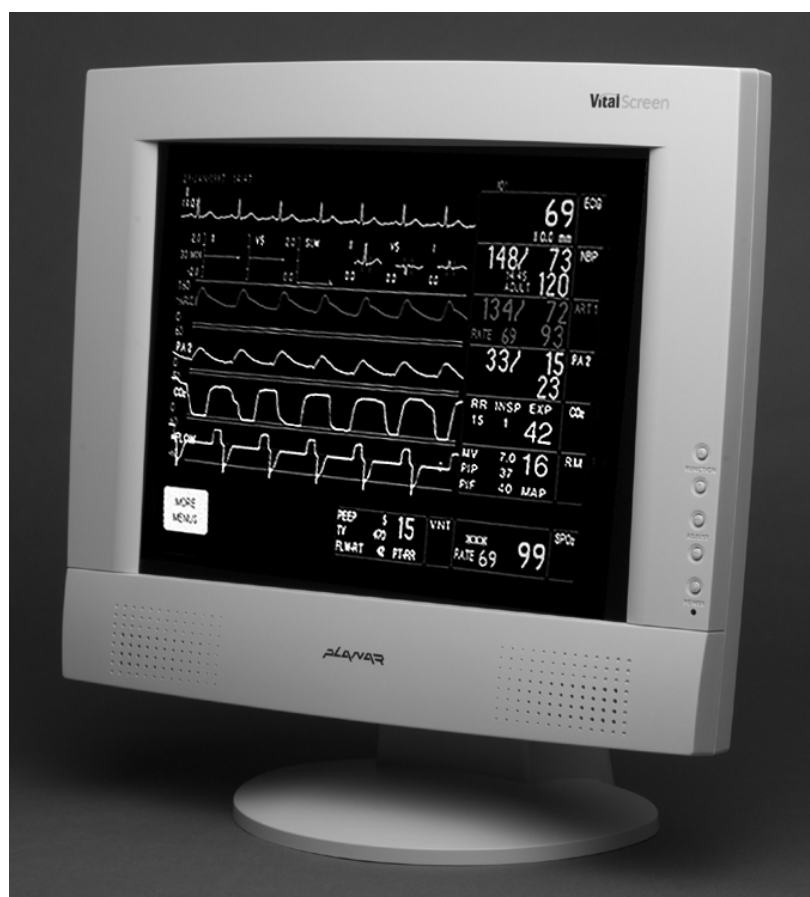
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DOCUMENT HISTORY

Date	Description
September 2002	020-0247-00 Rev. A
August 2003	020-0247-00 Rev. B
October 2003	020-0247-01 Rev. A

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Regulatory Compliance

This display has been tested and certified to international medical safety standards IEC/EN 60601-1 and IEC/EN 60601-1-2, and is certified to meet C22.2 No. 601.1-M1990 (C US Mark).

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

Planar Systems, Inc. has made great efforts to support the medical device industry, in particular, medical device manufacturers and medical device system integrators. We offer state-of-the-art color displays that are compliant with worldwide accepted medical device safety standards, and for the European market, CE-marked displays based on compliance with council directive 93/42/EEC commonly referred to as the Medical Device Directive (MDD). The following summarizes our qualification of these displays as it relates to compliance with the MDD.

The European Medical Device Directive requires that the intended use of the device be defined. The intended use of these displays is "to display alphanumeric, graphic, and image data as inputted from any type of medical device." These displays do not provide a measurement function in any way, and it is the device and systems manufacturer's responsibility to verify its function in the integrated device or system.

The display was classified as required by the MDD according to Annex IX of the directive and the medical device (MEDDEV) guidance available at the time of classification. Because the display uses electrical energy and has no direct patient connections and—by itself—no medical utility, the display is classified according to Rule 12 as an MDD Class I device-component or accessory. The MDD states that manufacturers of Class I medical devices or accessories shall satisfy the requirements in regard to design and manufacturing controls, that is, the applicable assessment route to be used for CE-marking under the MDD, and it shall carry the CE mark according to Annex XII of the directive, with no notified body annotation.

The applicable safety standards for an MDD Class I display are IEC/EN 60601-1:1997 along with Amendments 1 and 2. To help the medical device designer evaluate the suitability of these displays, Planar has also conducted EMC testing to IEC 60601-1-2 as it can be applied. The display with its power supply alone does not represent a functional medical device. Hence, Planar configured a minimal operating system to exercise the display. The resulting data are made available to interested parties.

The data are informative data, not certification data. Certification data must be obtained by the device or system integrator according to Article 12 of the MDD titled "Particular procedure for systems and procedure packs." Paragraph 2 clearly outlines the device or system integrator's responsibility in this matter.

In summary, Planar Systems, Inc. is CE-marking these displays under the Medical Device Directive, which establishes compliance to the basic medical safety standards. However, EMC compliance can only be accomplished in the configured medical device or system and is the responsibility of the device or system manufacturer. Planar has the necessary documentation such as IEC 60601-1 notified body and other third-party test reports and certifications, a risk/hazard analysis, an essential requirements checklist, and the Planar International Electrotechnical Commission (IEC) declaration of conformity.

Planar Systems, Inc., located in Beaverton, Oregon, USA, is the manufacturer of these displays in the meaning of the directive. As required by the MDD in Article 14, Planar Systems, Inc., not residing in the European Economic Area (EEA), has a European representative, Planar Systems, Inc.—Espoo, Finland.

In the opinion of Planar Systems, Inc. registration required to put this device into commerce is the responsibility of the medical device/system manufacturer, and Planar supports this requirement by providing a European commission (EC) declaration of conformity. If Planar supplies a display to an end user, rather than a device manufacturer, it is the end user's responsibility to ensure continued compliance with the MDD of the system in which the display is integrated.

For vigilance reporting as required under Article 10 of the MDD, Planar Systems, Inc. will provide any information requested by competent authority to support any reported incident investigation by such an authority.

European Union Declaration of Conformity for Medical Applications

A Declaration of Conformity has been filed for this product. For additional copies of the Declaration of Conformity document, contact Planar Systems, Inc. and request document number 001-0014-07 "Declaration of Conformity."

About This Manual

This manual contains information on the setup, use, and proper maintenance of VitalScreen™ S 15" display models VSS15X (non-touch) and VSS15X-TR (resistive touch). Keep this manual for future reference.

The section on [product information](#) provides [safety](#) and [cleaning](#) instructions. It also explains the [symbols](#) used on the products.

[Chapter 1](#) provides an overview of the VitalScreen S display. It lists the contents of the display package and identifies the components of the display. [Chapter 2](#) explains how to install the display correctly and use optional components. [Chapter 3](#) explains the menus and function controls built into the display.

[Appendix A](#) shows technical information. [Appendix B](#) gives supported timing. [Appendix C](#) offers troubleshooting solutions.

[Description of warranty](#) and [ordering information](#) are provided at the back of this manual.

Product Information

Safety instructions

Store the display in its original shipping carton when it is not in operation for extended periods of time. Also use the original packing materials and carton when shipping the display.

- Do not place the display near a window. Exposing the display to rain, water, moisture, or direct sunlight can damage it.
- Do not place anything on top of the video cable. Make sure the cable is placed where it will not be stepped on.
- Do not apply excessive pressure to the screen. Excessive pressure may cause permanent damage to the display.
- Refer all servicing to qualified personnel to maintain your warranty. The display and power adapter units contain no user-serviceable parts.
- Do not cover or obstruct the venting holes on the back of the display.
- Store the display in an environment with a temperature range from -20 to 65 degrees Celsius. Storing your display outside that temperature range could result in permanent damage.
- Do not expose the display to liquid or drop it. If the case has been damaged, the unit may pose a shock or fire hazard. Unplug the unit immediately and call customer service for assistance.
- Replace any cord or cable that is frayed or damaged with another of the same type and rating, as supplied by Planar. The safety and regulatory listings and certifications are based on the cable supplied by Planar.
- Use only the power adapter that has been tested and approved for use with this display product. The power adapter must be plugged into a grounded power outlet.
- Do not immerse the power adapter in liquid, or a safety hazard could arise during use.
- Do not use the power adapter near inflammable anesthetics.

Cleaning instructions

Use only the products listed below for cleaning the display. The products differ for cleaning the screen and cleaning the plastic enclosure. Be sure you use only the specific products approved for either the screen or the enclosure.

Always apply the product to a clean nonabrasive cloth and then wipe the screen or plastic enclosure. Cleaners applied directly to the display could leak inside a non-sealed unit and cause damage. Be careful not to splash solvents on the screen or enclosure.

Recommended cleaning solution for screen

Use 70 percent isopropyl alcohol. This is the only cleaning solution approved for use on the non-touch screen (model VSS15X) and the touch screen (model VSS15X-TR).

Do NOT use water or solvents (such as ketone, acetone) and aromatics (such as xylene, toluene).

To clean the screen

- 1 Switch the power off.
- 2 Dampen a clean nonabrasive cloth with 70 percent isopropyl alcohol.
- 3 Wipe the screen gently with the dampened cloth.
- 4 Dry the screen with a clean nonabrasive cloth to remove any residue.

Recommended cleaning solutions for plastic enclosure

You may also use 70 percent isopropyl alcohol to clean the plastic enclosure. Otherwise, use only these approved products to clean the enclosure.

- Cidex®
- Clorox Clean-Up®
- “Green soap” United States Pharmacopoeia (USP)
- Formula 409®
- Sani-Cloth® Plus
- Virustat TBQ™

Do NOT use these products on the screen.

Symbol
explanations

This table explains the symbols appearing on the display or power adapter.

Symbol	Description
	Proof of conformity to applicable European Economic Community Council directives and two harmonized standards published in the official journal of the European Communities.
	The product has been tested and certified by CSA to C22.2 No. 601.1-M90. If this mark appears with the indicators "C" and "US," the product is certified for the Canadian and U.S. markets, meeting the applicable Canadian and U.S. standards.
	The product has been tested to comply with FCC Class B standards.
	The product has been tested and certified by TÜV Rheinland in accordance with EN6061-1.
	More information available in accompanying documents.
	Protective earth ground.
	Indoor use only.
	Socket for headphones.

About the VitalScreen S

The architecture of the VitalScreen™ S display incorporates an AMLCD panel that produces a clear display with low radiation emission. This technology greatly reduces the radiation-related health concerns associated with CRT monitors.

More significant, the VitalScreen S display is medically certified under UL 2601 and IEC 60601. These qualifications make the display safer for the patient and protect the hospital from liability.

Your new VitalScreen S display is versatile, ergonomic, and user-friendly. It supports Plug and Play and displays most standards from 640 x 480 VGA to 1024 x 768 XGA. The digital controls located on the front panel allow you to easily adjust the display parameters using onscreen menus. When incorporated into a complete workstation, the display can be wall-mounted for added convenience.

Selecting a Workspace

Before you unpack the VitalScreen S display, select a suitable workspace for the display and computer. You need a stable, level, and clean surface near a wall outlet.

Even though this display uses little power, place it in a location that allows sufficient airflow to ensure proper ventilation.

Avoid setting up the display near a window where sunlight often comes in. You will have difficulty seeing the screen with glare reflecting off the display.

Unpacking the Display

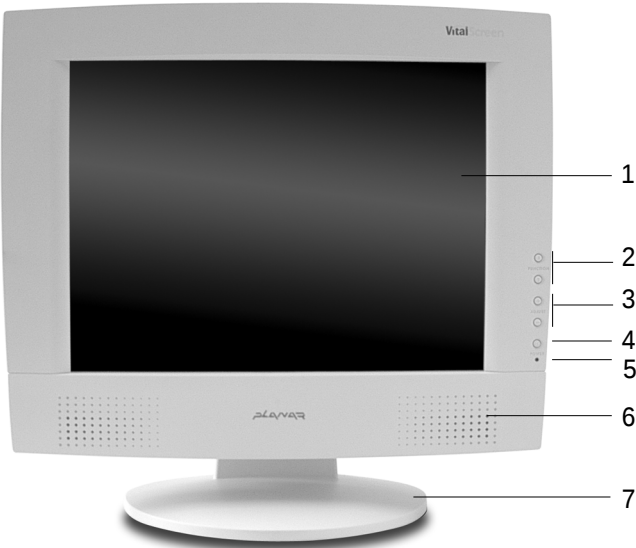
Make sure you receive the following items. If any item is missing or damaged, see your dealer immediately.

- LCD screen
- Desk stand or VESA mounting plate
- Video cable
- Stereo audio cable
- Touchscreen cable (VSS15X-TR only)
- AC power adapter with 1.5-meter (5-foot) cable
- Medical-grade power cord (US or European)
- CD with touchscreen driver and PDF of this manual
- EU Declaration of Conformity

Identifying the Components

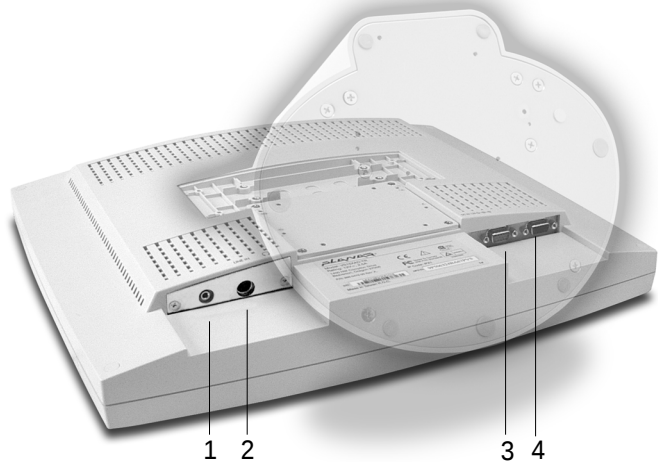
The VitalScreen S display provides easy access to all controls and peripheral ports. The following illustrations of the front and back panels identify the display controls and ports.

Front panel



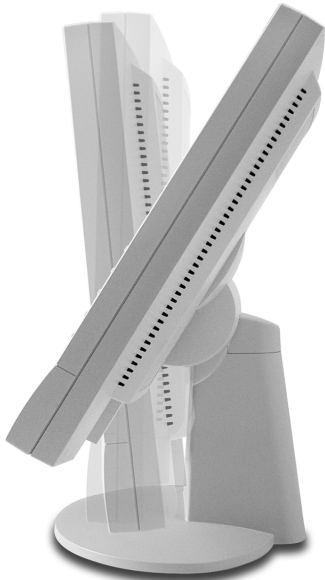
1	LCD screen	A 15-inch diagonal AMLCD. The screen supports a maximum resolution of 1024 x 768 (XGA).
2	Function UP and DOWN buttons	Vertical arrows to navigate the onscreen display menu horizontally. UP selects the functions to the left. DOWN selects the functions to the right.
3	Adjust PLUS and MINUS buttons	Controls to change the value of the selected function.
4	Power ON/OFF	Power switch.
5	LED power indicator	A light-emitting diode (LED) indicator that stays lit when the power is on and the display is receiving a proper video signal. The LED blinks slowly when the display is in power-saving mode.
6	Stereo speakers	Two transmission channels for sound.
7	Desk stand	Flat-surface support for the display. The stand allows you to pivot the screen to various viewing angles.

Back panel



1	Audio Line In	Jack for the audio cable. (You can also connect the CD-ROM Line Out to this jack.)
2	Power input port (locking mini DIN connector)	Port for the power connector.
3	Video connector port	Port for a 2-meter cable with two 15-pin D-Sub VGA connectors; used to join the display to the VGA card in your computer.
4	Touchscreen port	Port for the RS-232 cable; used to operate the optional touch screen. This cable is provided with the Optional Touch Screen package.

Adjusting the Viewing Angle



You can adjust your VitalScreen S display to various viewing angles. This side view of the display shows the angle settings possible, ranging from -5 to 25 degrees.

Installing the Display

To install the VitalScreen S display, connect the power supply first. Next, connect the VGA cable. Then choose whether to connect optional stereo speakers and touch screen.

Connecting the AC Power

You must use the Ault power adapter with this display unit.

- 1 Plug the AC power cord into the power adapter.
- 2 Plug the power connector into the locking mini DIN port on the back panel.
- 3 Plug the power cord into a grounded wall outlet.



For added protection, use a surge protector between the power adapter and the outlet to prevent sudden current variations from reaching the display.

Connecting the Video Cable

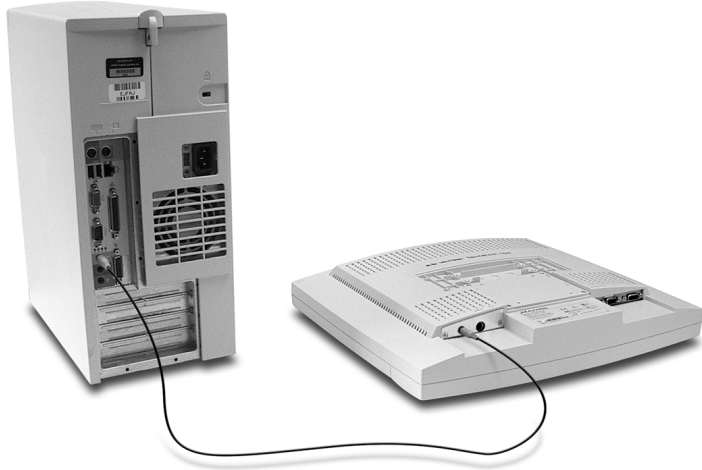
- 1** Turn off your computer and the display before connecting the two units.
- 2** Plug the video cable into the D-sub VGA connector port on the back panel.
- 3** Plug the other end of the video cable into the VGA port on the computer.



- 4** Make sure the cables are properly aligned, then tighten the connecting screws to ensure a secure connection.
- 5** Turn on the display first and then the computer.

Connecting the Stereo Speakers

- 1 Plug the audio cable to the Line Out port on the audio card in your computer.
- 2 Plug the other end of the audio cable to the Line In jack on the display.



- 3 Adjust the volume of the stereo speakers by using the volume control function on the onscreen display menu.

Note In some instances, the volume control function may be disabled. If so, the volume is set to the maximum.

Although the display speakers are adequate for most audio applications, Planar does not recommend using the display speakers as the exclusive audio source for medical alarms or applications critical for audio performance.

Connecting the Optional Touch Screen

- 1 Plug the RS232 cable into the RS232 port on the back panel.
- 2 Plug the other end of the cable into the RS232 serial port on your computer.
- 3 Load the touchscreen driver from the CD enclosed.



Power Management System

The VitalScreen S display complies with the VESA DPMS power management standard. This standard provides four power-saving modes, based on the display detecting the horizontal or vertical sync signals. The following table describes the four modes.

Mode		AC Input Power (including AC adapter)	LED Status
ON	with audio	40 watts maximum	Steady green
	without audio	37 watts maximum	Steady green
Standby		5 watts maximum	Blinking green
Suspend		5 watts maximum	Blinking green
OFF		5 watts maximum	OFF

When the display is in power-saving mode, or when it detects an incorrect timing, the display screen goes blank and the power LED indicator blinks.

Display Controls

This chapter explains the onscreen display (OSD) menu: the user interface for controlling various aspects of the VitalScreen S display.

The VitalScreen S display features an intuitive, menu-driven, onscreen display. Using the OSD menu, you can adjust the contrast, brightness, display position, display clarity, color temperature, and stereo speaker volume, as well as set onscreen display parameters.

Use the push buttons on the front of the display to access the controls. Access the OSD menu by pressing the Function UP button when the display is powered-up. If your computer is in power-saving mode, or is powered-down, the OSD menu is inaccessible.



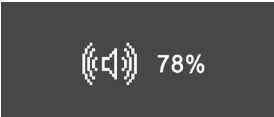
1	Function UP and DOWN buttons	Select functions to the left (UP) or right (DOWN). Function UP also activates the OSD menu.
2	Adjust PLUS and MINUS buttons	Increase or decrease the value of the selected function. Each button also serves a Function ENTER button.
3	Power switch	Turns the display ON or OFF when pressed for a minimum of 2 seconds. Also exits the OSD main menu and submenus with a quick press.
4	LED power indicator	Is lit continuously when the display is on; blinks when the display is in power-saving mode.

Hot Key Functions

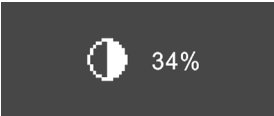
Three Hot Key functions allow you to make quick adjustments to the display setting, volume, and contrast without accessing the OSD menu.



Auto Adjust. Press the Function DOWN button to apply a display setting automatically. A small Auto Adjust OSD is displayed.



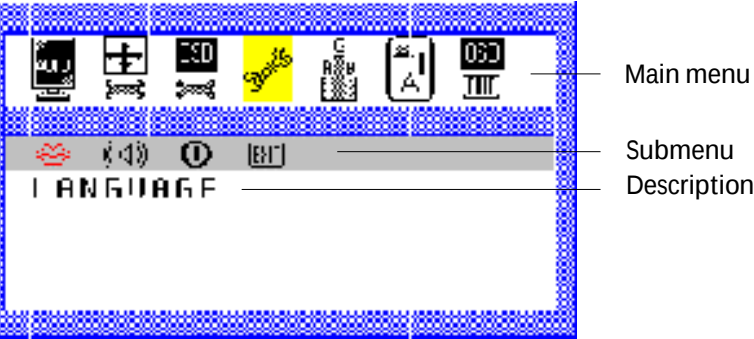
Audio-Volume. Press the Adjust PLUS button to change the audio volume directly. A small Audio-Volume OSD is displayed.



Contrast. Press the Adjust MINUS button to change the contrast of the display directly. A small contrast OSD is displayed.

Onscreen Display Main Menu

This screen appears when you access the OSD main menu. The top row of icons represents the main menus. When a menu item is highlighted, its submenu, and a description of the submenu item, appears below the main menu bar.



Function Menus

The following tables describe the main menus and submenus.

The Seven Main Menus



Auto Adjust. Allows the display to determine and select the settings that are appropriate for your system requirements. This function tunes the display to the video card in your computer.



Monitor-Control. Allows you to adjust the display characteristics such as the horizontal or vertical position, display phase, display clock, and factory reset. Adjusting these settings is necessary if the results from the Auto Adjust function are not satisfactory.



OSD-Control. Allows you to adjust the position and setting of the onscreen display.



MISC-Control. Allows you to select the desired text language of the onscreen display, adjust the display speaker volume, and show/display the current video information being sent to the display from the video card.



Graphic-Control. Allows you to adjust the display contrast, brightness, and color settings.



Graph/Text. Allows you to switch DOS text resolution from 640 x 400 to 720 x 400 pixels. This function has no effect with graphic operating systems such as Microsoft® Windows®.



Exit. Closes the onscreen display.

Auto Adjust



Allows the display to determine and select the settings that are the most appropriate for your system requirements.

With the Auto Adjust icon selected, press either Function Enter button to apply the display settings automatically.

Monitor-Control



Allows you to adjust the display characteristics.

With the Monitor-Control icon selected, press either Function Enter button to activate the submenu.



H-Position. Press the Adjust PLUS or MINUS button to move the display screen horizontally to the desired position.



V-Position. Press the Adjust PLUS or MINUS button to move the display screen vertically to the desired position.



Phase. Press the Adjust PLUS or MINUS button to fine-tune the display screen. An improper phase adjustment results in pixel jitter or display noise.



Clock. Press the Adjust PLUS or MINUS button to stabilize the display clock timing. An improper clock setting results in wide vertical bands on the display.



Reset. Press either Function ENTER button to reset the Monitor-Control submenu values to the factory default values.



Exit. Press either Function ENTER button to exit the Monitor-Control submenu.

OSD-Control



Allows you to adjust the position of the onscreen display on the screen.

With the OSD-Control icon selected, press either Function Enter button to activate the submenu.



OSD-H-Position. Press the Adjust PLUS or MINUS button to move the OSD menu horizontally.



OSD-V-Position. Press the Adjust PLUS or MINUS button to move the OSD menu vertically.



Exit. Press either Function ENTER button to exit the OSD-Control submenu.

MISC-Control		
		Allows you to select the display language, adjust the volume setting, and view system information. With the MISC-Control icon selected, press either Function Enter button to activate the submenu.
		Language. Press the Adjust PLUS or MINUS button to select the desired OSD display language. Languages supported: English, German, French, Spanish, and Italian.
		Audio Volume. Press the Adjust PLUS or MINUS button to decrease or increase the volume of the stereo speakers.
		Information. When selected, information displayed includes the current resolution, vertical refresh rate, and display firmware version.
		Exit. Press either Function ENTER button to exit the MISC-Control submenu.

Graphic-Control		
		Allows you to adjust the display contrast, brightness, and color settings. With the Graphic-Control icon selected, press either Function Enter button to activate the submenu.
	Contrast.	Press the Adjust PLUS or MINUS button to adjust the difference between the lightest and darkest areas of the display. The contrast level can range from 0 to 63.
	Brightness.	Press the Adjust PLUS or MINUS button to adjust the light level on the display screen. Make this adjustment in conjunction with the Contrast parameter.
	Color.	Press the Adjust PLUS or MINUS button to select the display color. The available options are 9300, 6500, and User. The 9300 and 6500 options allow you to set the Color Temperature to CIE coordinate value 9300 and 6500 degrees respectively. Selecting the User option allows you to customize the Red, Green, and Blue coordinates.
	R, G, B.	Press the Adjust PLUS or MINUS button to make individual adjustments to the Red, Green, and Blue gain for the color temperature. There are 127 levels of adjustments (0 to 127) available. Before adjusting these fields, select the User option in the Color submenu.
	Auto Level.	Press either Function ENTER to automatically perfect the white balance display.
	Exit.	Press either Function ENTER button to exit the Graphic-Control submenu.

Graph/Text



Allows you to change the DOS resolution from 640 x 400 to 720 x 400.

With the Graph/Text icon selected, press the Adjust PLUS or MINUS button to change the resolution from one setting to the other.

Exit



Allows you to exit the OSD menu.

With the Exit icon selected, press either Function ENTER button.

The OSD menu automatically exits after a brief period of inactivity.

APPENDIX A Technical Information

VSS15X/VSS15X-TR	Specification	
Panel	15" active matrix color TFT LCD; 1024 (H) x 768 (W) pixels (XGA)	
Control functions power	Software power switch with LED indicator (Press a minimum of 2 seconds to turn OFF/ON.)	
Onscreen display (OSD)	Main Menu	Submenu
	Monitor Control	Auto-Adjust/H-Position/V-Position/Phase/Clock/Reset/<Graph/Text>/Exit
	OSD Control	OSD H-Position/OSD V-Position/OSD-Timer/Exit
	Graphic Control	Contrast/Brightness/Color/RGB/Auto-Level/Reset/Exit
	Misc. Control	Language/Audio Volume/Information/Exit
	OSD Exit	
Display area (mm)	304.1 (W) x 228.1 (H); 380.1 (15-inch) diagonal	
Response time (ms), Rise/Fall	20/5 ms typical	
Contrast ratio	500:1 typical; 300:1 minimum	
Brightness (non-touch)	300 cd/m ² typical; 230 cd/m ² minimum	
Viewing angle (degrees)	70/70 (L/R) horizontal	
	55/65 (U/D) vertical	
Pixel pitch (mm)	0.297 (H) x 0.297 (W)	
Display colors	16.2 M	
Video interface	VGA Compatible Analog RGB/ Composite Sync	
Scanning frequency (Hz)	24-62k horizontal	
	56-77 vertical	
Number of factory, preset mode	22	
Power management	Meets VESA DPMS	
Power consumption (ON/OFF, W)	40/7 maximum	
Dimensions (mm)	408 (W) x 388 (H) x 175 (D)	
Net weight (kg)	5 VESA mounting	
	7.5 deskstand mounting	
Power adapter, Ault	12 volts/3.3 amps	
Options	Wall mount, desk stand, touch screen	
Environment	Operating temperature: 0 (zero) to 40° C	
	Relative humidity: 10% to 90%	
Audio (Two 1-Watt speakers with amplifier)	Yes	
Regulatory	See "Regulatory Compliance" on page iv	

APPENDIX B Supported Timing

Item	Standard	Resolution	Dot Clock (MHz)	Vertical Scanning Frequency (Hz)	Horizontal Scanning Frequency (kHz)
1	NEC PC98	640x400	25.20	70.15	31.50
2	NEC PC98	640x400	21.05	56.42	24.83
3	MAC 13-inch mode	640x480	30.24	66.67	35.00
4	MAC 16-inch mode	832x624	57.28	74.55	49.73
5	MAC 17-inch mode	1024x768	80.00	75.02	60.24
6	VGA	640x350	25.18	70.09	31.47
7	VGA	640x400	25.18	70.09	31.47
8	VGA	640x480	25.18	59.94	31.47
9	VESA	640x480	31.50	72.81	37.86
10	VESA	640x480	31.50	75.00	37.50
11	VESA	800x600	36.00	56.25	35.16
12	SVGA	800x600	40.00	60.32	37.88
13	VESA	800x600	50.00	72.19	48.08
14	VESA	800x600	49.50	75.00	46.88
15	VGA	720x400	28.32	70.09	31.47
16	XGA	1024x768	65.00	60.00	48.36
17	VESA	1024x768	75.00	70.07	56.48
18	VESA	1024x768	78.75	75.03	60.02
19		1024x768	71.64	66.13	53.96
20	SUN	1024x768	64.13	59.98	48.29
21	SUN	1024x768	74.25	70.04	56.59
22	SUN	1024x768	84.38	77.07	62.04

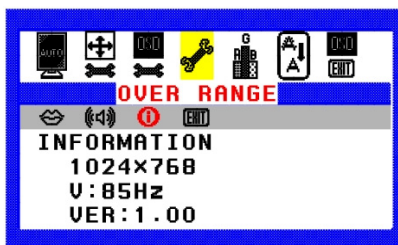
APPENDIX C Troubleshooting

Problem Display indicates “Over Range”

The frequency range is outside of display specifications, or the incoming resolution is higher than 1024 x 768.

Frequency range

The incoming frame rate is higher than 75 Hz. The screen display may not be centered and this warning message appears



Incoming resolution

The incoming resolution is higher than 1024 x 768. The video data turns off and this warning message appears.

OVER RANGE

Solution

Check that the scanning frequency is in a horizontal range of 24 to 62 kHz and a vertical range of 55 to 77 Hz. Or check that the display resolution is set to 1024 x 768 or lower.

Problem Display indicates “No Signal”

When there is no video-input signal from the source video port, the OSD shows this message.



NO SIGNAL

Solution Check that the video cable is connected securely to the computer and the display.

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Description of Warranty

Planar Systems, Inc. (Planar) warrants that the goods sold hereunder will be free of defects in materials and workmanship, and such goods will substantially conform to the specifications furnished by Planar, and to any drawings or specifications furnished to Planar by the Buyer if approved by Planar. This warranty shall be effective only if Planar receives notice of such defect or nonconformance during the period of the warranty. Sole and exclusive liability of Planar for breach of warranty shall be, at the company's option, to repair or replace the Planar product(s) with refurbished units or provide a credit to Buyer in the amount of the purchase price.

Commencement and duration of warranty

The warranty period begins on the date of shipment from Planar. The goods sold hereunder are warranted for a period of 36 months from date of shipment unless otherwise agreed to by Buyer and Planar. No extension of the warranty will be given during the time the goods are in the possession of Planar.

Place of repair or replacement

To obtain service under this warranty, Buyer must notify Planar of the defect before expiration of the warranty period and request a "Return Material Authorization Number (RMA)." If the configuration has been modified in any manner, the product must be returned to its original configuration before any warranty service will be performed by Planar. No goods are to be returned to Planar without prior authorization. Buyer will be responsible for packaging and shipping the defective goods to the appropriate Planar Service Facility. For North America, the service facility is located in Espoo, Finland.

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**Limitation of
warranty**

The foregoing warranty shall not apply to defects resulting from (a) improper or inadequate maintenance by Buyer; (b) unauthorized modification of the goods; (c) operations of the goods outside the environmental specifications of the goods; (d) neglect, misuse, or abuse of the goods; or (e) modification or integration with other goods not covered by the Planar warranty when such modification or integration increases the likelihood of damage to the goods.

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Installation

Planar makes no warranty with respect to any installation of Planar product(s) by Planar, any authorized dealer, or any other person.

Technical assistance

In North America, call 1 (866) PLANAR1 between 8 A.M. and 5 P.M. Pacific time, Monday through Friday, or send a description of your technical issues and e-mail address to medicalsupport@planar.com.

In Europe, call +358 9 420 01 between 8 A.M. and 4 P.M. Finnish time (Eastern European time), Monday through Friday, or send a description of your technical issues and e-mail address to medicalsupport@planar.com.

Repair service

In North America, call Planar at (503) 748-1100 between 8 A.M. and 4 P.M. Pacific time, Monday through Friday, or fax your request to (503) 748-1493. You need the unit's serial number and a brief description of the problem to receive an RMA number.

In Europe, call Planar Customer Service at +358 9 420 01 between 8 A.M. and 4 P.M. Eastern European time, Monday through Friday, or fax your request to +358 9 420 0200. You need the unit's serial number and a brief description of the problem to receive an RMA number.

To protect Planar employees from potential health hazards, Planar requires that the RMA product be disinfected before returning to Planar for service. Any product not cleaned prior to shipment will be returned to the customer.

Returns are not accepted without an assigned RMA number.

In-transit damage is not covered by the warranty. Insure your shipment. Planar only pays for the return shipment by surface transportation. It is responsibility of the sender to prepay transportation charges.

Ordering Information

Non-touch display Use the information in these tables to order parts for the VSS15X non-touch display.

VSS15X Display	Part Number
VSS 15X 15-inch XGA VitalScreen S Medically Certified Display with desk stand and US power cord	997-2261-01
VSS 15X 15-inch XGA VitalScreen S Medically Certified Display with desk stand and European power cord	997-2262-01
VSS 15X 15-inch XGA VitalScreen S Medically Certified Display with mounting plate and US power cord	997-2265-01
VSS 15X 15-inch XGA VitalScreen S Medically Certified Display with mounting plate and European power cord	997-2266-01

Accessories	Original Part	Replacement Part
US power cord	903-0169-00	
European power cord	903-0251-00	
VGA cable	903-0454-00	903-0167-00
Audio cable	903-0455-00	903-0168-00
Power adapter, Ault	903-0013-01	

Resistive-touch display

Use the information in these tables to order parts for the VSS15X-TR resistive-touch display.

VSS15X-TR Display	Part Number
VSS 15X-TR 15-inch XGA VitalScreen S Medically Certified Display with desk stand and US power cord	997-2401-01
VSS 15X-TR 15-inch XGA VitalScreen S Medically Certified Display with desk stand and European power cord	997-2402-01
VSS 15X-TR 15-inch XGA VitalScreen S Medically Certified Display with mounting plate and US power cord	997-2403-01
VSS 15X-TR 15-inch XGA VitalScreen S Medically Certified Display with mounting plate and European power cord	997-2404-01

Accessories	Original Part	Replacement Part
US power cord	903-0169-00	
European power cord	903-0251-00	
VGA cable	903-0454-00	903-0167-00
Audio cable	903-0455-00	903-0168-00
Touchscreen cable	903-0456-00	903-0233-00
Power adapter, Ault	903-0013-01	

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