



Dome® Ex Display User's Guide



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About the Display

The Dome® Ex displays are available in 2, 3, and 5 megapixels and contain a TFT LCD panel. The display's thin film transistors, in a transmissive-type display, use an integrated cold cathode fluorescent tube (CCFT) backlight system.

The display is designed for medical imaging in diagnostic settings, in portrait or landscape orientation, and comes fully tuned with gamma correction that complies with the DICOM Part 14 Standard. The all-digital design enables the display to produce the sharp, crisp images critical to softcopy medical viewing. Unwanted analog display image artifacts are eliminated.

For display classification and intended use; environmental guidelines; safety precautions; handling, cleaning, and storage tips; and specifications, see "Technical Information" on page 6.

System Requirements

- Windows 7 (x86 or x64) or Windows XP Service Pack 3 (x86 or x64)
- Intel or AMD multi-core processor
- PCI Express x16 lane slot
- 50 MB hard disk space
- 512 MB RAM
- CD-ROM drive
- Power supply, 350 watts or greater



Dome Ex display mounted on desk stand



*DC power adapter**



Power cords



DVI cable



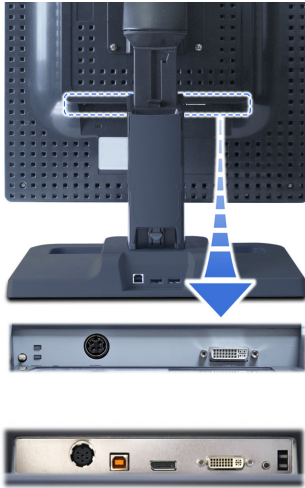
*DisplayPort cable***

** Some Dome Ex displays ship with a DC adapter that operates per power switch.*

*** For Dome E3cHB unit only.*

Display Components

Review this illustration of the back panel to identify controls and ports on the display unit. Also see “Connector Ports” on page 21.



Dome E2cHB, Dome E3,
and Dome E5

Dome E3cHB

All Dome Ex displays include the following on the connector plate:

- Power input. Drives power to the display; 8-pin port on Dome E2cHB, Dome E3, and Dome E5, and 6-pin port on Dome E3cHB.
- Video input. Drives the data to the display. All Dome Ex displays have a standard DVI connector. The Dome E3cHB unit also includes a DisplayPort connector port.
- Reset button. Restores the display configuration to default setting.
- LED lights. Provides information on the status of the display.

NOTE: Usage of the USB-B port on Dome E3cHB to be defined at a future time.

Installing the Display

Turn your computer off. Leave the power cord plugged into the grounded outlet. Use the Dome Ex display with the power adapter and video cable shipped.



WARNING

No modification of this equipment is allowed.

In locations where 240V outlets are used, connect the Dome Ex display only to a center-tapped, 240V, single-phase supply (for Canada and the United States only).

Connecting the Video and Power Cables

IMPORTANT! For the Dome E3CHB unit only. Install either the DVI or the DisplayPort video cable, not both.

To connect the cables

- 1 Plug one end of the video cable into the video port on the connector plate. Secure the connection.
- 2 Plug the power cord into the power input port on the connector plate.
- 3 Plug the other end of the video cable into the video port on your computer system. Secure the connection.
- 4 Plug the other end of the power cord into the power supply.
- 5 Plug the power supply cord(s) into a grounded AC outlet.
- 6 If you are using a BridgePower adapter, turn on the adapter power switch before you turn on the computer.

HARDWARE INSTALLATION TIPS

- Access to ports. For displays mounted on a desk stand, rotate the LCD panel from portrait to landscape for better access to the ports.
- Threading cables. Thread the DVI cable and power cord through the stand column. Make sure the cable and cord run through the notches. To reattach the stand cover, align the hooks with the slots on the stand. Press the cover into place. A click sound signals a secure connection.

Technical Information

The design of the Dome® Ex 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. Read all instructions before setting up the display.

Classification:

Shock Protection: Class I.

Degree of Protection Against Electric Shock: No applied part.

Degree of Protection Against Harmful Ingress of Water:
Ordinary equipment (IPX0).

Degree of Safety in the Presence of Flammable Anaesthetic Mixture with Air or with Oxygen or Nitrous Oxide:
Not suitable for use in the presence of a flammable anaesthetic mixture with air or with oxygen or nitrous oxide.

Mode of Operation: Continuous.

No applied part.

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 Telecommunications Industry Association at WWW.ECYCLINGCENTRAL.COM. For lamp-specific disposal information, check WWW.LAMPRECYCLE.ORG.



DISPOSAL. 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. Hazardous substances are present. The number encircled by the recycling symbol indicates the safe-use period (in years). China requires the use of recycling services at the end of product life.

Symbol explanations



READ DOCUMENTATION. Follow operating instructions or consult instructions for use.



MANUFACTURER.



DATE OF MANUFACTURE.



SERIAL NUMBER.



AUTHORIZED REPRESENTATIVE. European Community.



DANGEROUS VOLTAGE. Important precautions about electric shock. Read the accompanying text carefully, to prevent damage to display components and to guard your safety.



DIRECT CURRENT.



BAROMETRIC PRESSURE. Transport and storage 12,000 meters (39,400 feet), maximum in unpressurized container.



RELATIVE HUMIDITY. Transport and storage 5% to 90% (noncondensing).



TEMPERATURE. Transport and storage -10° to 60° C for Dome E3, Dome E3cHB, and Dome E5; -20° to 60° C for Dome E2cHB.



WARNING.

The Dome Ex display is an AMLCD display designed for viewing medical X-ray images. This unit should not be used near patients and should be kept outside of 1.5 m perimeter and 2.29 m vertical.

Intended use

Dome Ex line, model Dome E2cHB is intended for use in the displaying and viewing of medical images for review, analysis, and diagnosis by trained medical practitioners.

For the European market, Dome Ex line, model Dome E3 is intended for use in the displaying and viewing of radiography images for review, analysis, and diagnosis by trained medical practitioners.

Dome Ex line, model Dome E3cHB is intended for use in the displaying and viewing of medical images for review and analysis by trained medical practitioners.

Dome Ex line, model Dome E5 is intended for use in the displaying and viewing of medical images, including radiographs of the breast, for review and analysis by trained medical practitioners.



WARNING! In the Dome Ex display series, only the Dome E5 display can be used for primary image diagnosis in mammography. The Dome E2cHB, Dome E3, and Dome E3cHB units must not be used for primary image diagnosis in mammography.

Federal law restricts this device to sale by or on the order of a medical practitioner.

Safety precautions

External equipment intended for connection to signal input, signal output, or other connectors, must comply with the relevant IEC standard (IEC 60601-1:2005 and EN 60601-1:2006 series for medical electrical equipment). In addition, all such combinations (systems) must comply with the standard IEC 60601-1:2005, Safety requirements for medical electrical systems.

Equipment not complying to IEC 60601-1:2005 must be kept outside the patient environment, as defined in the standard as at least 1.5 meters from the patient or the patient support.

Any person who connects external equipment to signal input, signal output, or other connectors has formed a system and is therefore responsible for the system to comply with the requirements of IEC 60601-1:2005. If in doubt, speak with a qualified technician.

The power cord is the only disconnect device that allows you to cut power from the AC main. Position the display in order to operate the disconnect device without difficulty.

Never touch the display and the patient at the same time.



WARNING! No modification of this equipment is allowed.

Safety tips

- Never open the display case, even when the power is off. Dangerous voltage inside may cause electric shock or death.
- To avoid damage to the display, use the grounded power supply and video cable supplied by NDSsi, or use certified replacements.
- Be sure the display is electrically grounded. You must connect the third grounding pin on the US power cord to a grounded outlet. The European power cord does not have a third grounding pin, but it must be plugged into a grounded outlet.
- If you cannot insert the plug into the outlet you plan to use, have a licensed electrician replace the outlet with a properly grounded outlet. If the power cord connects directly into the computer, make sure the computer is grounded.
- Keep the display dry if it is part of a surgical system. The display lacks protection against liquids or spills.
- **In locations where 240V outlets are used, connect the Dome Ex display only to a center-tapped, 240V, single-phase supply (for Canada and the United States).**

GROUNDING RELIABILITY CAN ONLY BE ACHIEVED WHEN EQUIPMENT IS CONNECTED TO AN EQUIVALENT RECEPTACLE MARKED "HOSPITAL ONLY" OR "HOSPITAL GRADE."



WARNING! TO AVOID THE RISK OF ELECTRIC SHOCK, THIS EQUIPMENT MUST ONLY BE CONNECTED TO A SUPPLY MAINS WITH PROTECTIVE EARTH.

Unpacking and handling tips

The Dome Ex display is a precision instrument that requires proper care to maintain product operation and adherence to specification. Unpack the display and components carefully, then set up and handle the unit properly to avoid damage to the LCD panel.

- Use both hands to grasp the display case when lifting it from the shipping carton, but avoid touching the screen.
- Do not apply pressure to the screen or touch the screen with bare fingers or objects. Pressure can affect image quality. Cosmetics and oils on the skin are both detrimental to the screen and difficult to remove.
- Allow the display to warm up to room temperature before turning it on. Avoid sudden temperature changes in the environment, as this may cause condensation, which damages the display.
- Secure the display properly onto a standard VESA 100-mm mounting unit if you elect not to use the desk stand.
- Do not set up the display near strong light or heat sources.
- Do not block the vents on the back of the display or install the display in a built-in enclosure. Blocked vents cause excessive heat to build up inside the display, increasing risk of fire.
- When installing components, turn off your computer, but leave it plugged into a grounded outlet.
- Do not remove the back cover or disassemble the display. There are no user-serviceable parts inside.

Preventing fire and injury

- Replace the power supply or cables if damaged.
- Use only the power source indicated in this guide or listed on the display.
- Do not plug the power supply into an overloaded AC outlet or extension cord. Overloaded AC outlets and cords can result in electric shock or fire.
- Do not drop or push objects into the display case. Internal components contain high voltage.
- Unplug the power cord from the wall outlet during thunderstorms.
- Do not place magnetic devices, such as motors, near the display.

Cleaning the display

Observe the following guidelines to maintain the display and the LCD screen.

- Use a clean, lint-free, absorbent cotton cloth to clear off any residual glue from removal of the protective film or to remove surface dust. Apply light pressure to remove the dust.
- Dampen a clean cloth with a small amount of isopropyl alcohol to remove glue or dust if the screen is still not clean. Do not saturate the cloth; otherwise, alcohol may seep into the display case and collect in the enclosure. Use a clean, dry cloth to completely remove the alcohol residue.
- Do not use chemically treated dust cloths, acetone, toluene, or harsh solvents on the display case or the screen. They can damage the polarizer and the display case.
- Do not expose the display to water or excessive moisture. Do not allow water or other stains to stand on the unit. Wipe liquids off immediately to prevent damage to the display case and the screen.



WARNING! DISCONNECT SUPPLY BEFORE SERVICING

AVERTISSEMENT

COUPER L'ALIMENTATION AVANT L'ENTRETIEN ET LE DEPANNAGE

Shipping/storing the display

Keep the display in its shipping container until installation. Return the display to its original container whenever you need to store the unit, move it to another location, or return it for repair. The packaging supplied by the manufacturer protects the display while it is in transit. See environment specifications for more information.

Before returning the display to the container, do the following:

- 1 Swivel the display panel to landscape mode.
- 2 Push the panel down to the lowest position.
- 3 Use the stand lock to anchor the panel.

Disposal information

Follow your local governing ordinance and recycling policy for proper disposal or recycling of display components.

Dome E2cHB Specification

In locations where 240V outlets are used, connect the Dome E2cHB display to a center-tapped, 240V, single-phase supply only (for Canada and the United States).

Category	Characteristic Item	Specification
LCD	Technology	TFT AMLCD Dual Domain IPS, 3 subpixels per pixel
	Screen size, diagonal	498 mm (19.6 in.)
	Display resolution	1200 x 1600 pixels (portrait) 1600 x 1200 pixels (landscape)
	Pixel pitch	249 μ m, 102 DPI
	Viewing angle	170° horizontal/vertical
	Response time	25 ms (typical)
	Refresh rate	60 Hz
Optical	Brightness	800 cd/m ² (typical)
	Contrast ratio	700:1 (typical)
	DICOM LUT	16-bit architecture with 0.3 JND precision
	Colors supported	16.7 M
	Pixel arrangement	RGB vertical stripe
Interface	Display control - brightness/contrast	DDC2B+
	Display identification	EDID read using DDC2B+
	Display status	Dual-stack tricolor LEDs on back panel
Panel Connectivity	Video input	DVI-D
	Pixel data sizes	8-bit, 16-bit, and 24-bit per pixel color
	VGA compatibility	640 x 480 to 1280 x 1024
	USB interface	Built-in USB 2.0 HUB on stand
Physical	Display size (without stand), H x W x D	440 mm x 343 mm x 95 mm (17.3 in. x 13.5 in. x 3.7 in.)
	Display weight (without stand)	5.4 kg (12 lb)
	Display weight (with stand)	9.1 kg (20 lb)
	Mounting options	100 x 100 mm VESA mounting standard. Desktop stand includes height, pivot, swivel, and tilt adjustment.
Power Requirement	Adapter	BridgePower BPM130S12F02 (with power switch) (CAUTION: Use only the adapter supplied with unit.)

Power Supply



WARNING: Use only the power adapter supplied with the Dome E2cHB display unit: the BridgePower BPM130S12F02 (130W) model.

Category	Characteristic Item	Specification
Power input requirements	Voltage selection	Auto-ranging
	Voltage	100–240V AC
	Current	3.0 A (3.0–1.5 A)
	Frequency	50–60 Hz
Power output requirements	Voltage	12 V DC \pm 5%
	Current	10.8 A (130W)
Power consumption	Wattage	60 W (typical)
Physical	Size	228.6 mm x 76.2 mm x 50.8 mm (9 in x 3 in x 2 in)
	Weight	1.3 kg (2.75 lb)

Reliability

Characteristic item	Specification
Display	MTBF 50,000 hours
Backlight	MTBF 50,000 hours to 50% brightness with backlight on continuously

Environment

Characteristic item	Specification	
EMI shielding	No emission of low-level radiation	
Temperature	Operating range	10° C ~ 40° C
	Storage range	-20° C ~ 60° C
Humidity	Operating range	30% ~ 75% Relative Humidity (noncondensing)
	Storage range	5% ~ 90% Relative Humidity (noncondensing)
Altitude	Operating	2,000 m (6,560 ft) maximum
	Transport/storage	12,000 m (39,400 ft) maximum in unpressurized container

Dome E3 Specification

In locations where 240V outlets are used, connect the Dome E3 display to a center-tapped, 240V, single-phase supply only (for Canada and the United States).

Category	Characteristic Item	Specification
LCD	Technology	TFT AMLCD Dual Domain IPS, 3 subpixels per pixel
	Screen size, diagonal	528 mm (20.8 in.)
	Display resolution	1536 x 2048 pixels (portrait) 2048 x 1536 pixels (landscape)
	Pixel pitch	206 µm, 123 DPI
	Viewing angle	170° horizontal/vertical
	Response time	25 ms (typical)
	Refresh rate	60 Hz
Optical	Brightness	1000 cd/m ² (typical)
	Contrast ratio	900:1 (typical)
	DICOM LUT	16-bit architecture with 0.2 JND precision
	Colors supported	Up to 1024 shades of gray, programmable gamma from palette of up to 3061 shades
	Pixel arrangement	Subpixel vertical stripe
Interface	Display control -brightness/contrast	DDC2B+
	Display identification	EDID read using DDC2B+
	Display status	Dual-stack tricolor LEDs on back panel
Panel Connectivity	Video input	Dual Link DVI-D
	Pixel data sizes	8-bit and 10-bit per pixel grayscale, 24-bit color mapped to luminance
	VGA compatibility	640 x 480 to 1280 x 1024
	USB interface	Built-in USB 2.0 HUB on stand
Physical	Display size (without stand), H x W x D	475 mm x 368 mm x 102 mm (18.7 in. x 14.5 in. x 4.0 in.)
	Display weight (without stand)	6.4 kg (14 lb)
	Display weight (with stand)	10.0 kg (22 lb)
	Mounting options	100 x 100 mm VESA mounting standard. Desktop stand includes height, pivot, swivel, and tilt adjustment.
Power Requirement	Adapter	BridgePower BPM130S12F02 (with power switch) (CAUTION: Use only the adapter supplied with unit.)

Power Supply



WARNING: Use only the power adapter supplied with the Dome E3 display unit: the BridgePower BPM130S12F02 (130W) model.

Category	Characteristic Item	Specification
Power input requirements	Voltage selection	Auto-ranging
	Voltage	100–240V AC
	Current	3.0 A (3.0–1.5 A)
	Frequency	50–60 Hz
Power output requirements	Voltage	12 V DC \pm 5%
	Current	10.8 A (130W)
Power consumption	Wattage	60 W (typical)
Physical	Size	228.6 mm x 76.2 mm x 50.8 mm (9 in x 3 in x 2 in)
	Weight	1.3 kg (2.75 lb)

Reliability

Characteristic item	Specification
Display	MTBF >50,000 hours
Backlight	MTBF 50,000 hours to 50% brightness with backlight on continuously

Environment

Characteristic item	Specification	
EMI shielding	No emission of low-level radiation	
Temperature	Operating range	10° C ~ 40° C
	Storage range	-10° C ~ 60° C
Humidity	Operating range	30% ~ 75% Relative Humidity (noncondensing)
	Storage range	5% ~ 90% Relative Humidity (noncondensing)
Altitude	Operating	2,000 m (6,560 ft) maximum
	Transport/storage	12,000 m (39,400 ft) maximum in unpressurized container

Dome E3cHB Specification

In locations where 240V outlets are used, connect the Dome E3cHB unit to a center-tapped, 240V, single-phase supply only (for Canada and the United States).

Category	Characteristic Item	Specification
LCD	Technology	TFT AMLCD Dual Domain IPS, 3 subpixels per pixel
	Screen size, diagonal	541 mm (21.3 in.)
	Display resolution	1536 x 2048 pixels (portrait) 2048 x 1536 pixels (landscape)
	Pixel pitch	211.5 μ m, 120 DPI
	Viewing angle	176° horizontal/vertical
	Response time	14 ms (typical)
	Refresh rate	60 Hz
Optical	Brightness	800 cd/m ² (typical)
	Contrast ratio	750:1 (typical)
	DICOM LUT	16-bit architecture with 0.3 JND precision
	Colors supported	Up to 1.06 billion colors; up to 1024 shades of gray, programmable gamma from palette of up to 2041 shades
	Pixel arrangement	R,G,B vertical stripe
Interface	Display control -brightness/contrast	DDC2B+
	Display identification	EDID read using DDC2B+
	Display status	Dual-stack tricolor LEDs on back panel
Panel Connectivity	Video input	DisplayPort 1.1 and Dual Link DVI-D
	Pixel data sizes	8-bit, 16-bit, 24-bit, and 30-bit per pixel color*
	VGA compatibility	640 x 480 to 1280 x 1024
	USB interface	Built-in USB 2.0 HUB on stand, USB B upstream port
Physical	Display size (without stand), H x W x D	475 mm x 369 mm x 102 mm (18.7 in. x 14.5 in. x 4.0 in.)
	Display weight (without stand)	6.6 kg (15 lb)
	Display weight (with stand)	10.2 kg (23 lb)
	Mounting options	100 x 100 mm VESA mounting standard. Desktop stand includes height, pivot, swivel, and tilt adjustment.
Power Requirement	Adapter	BridgePower BPM150S24F05 (CAUTION: Use only the adapter supplied with unit.)

* 30-bit color is supported on DisplayPort only.

Power Supply



WARNING: Use only the power adapter supplied with the Dome E3cHB unit: the BridgePower BPM150S24F05 (150W) model.

Category	Characteristic Item	Specification
Power input requirements	Voltage selection	Auto-ranging
	Voltage	100–240V AC
	Current	2.5 A (2.5–1.5 A)
	Frequency	50–60 Hz
Power output requirements	Voltage	24 V DC \pm 5%
	Current	6.25 A (150 W)
Power consumption	Wattage	81 W (typical)
Physical	Size	223.5 mm x 90.0 mm x 56.6 mm (8.8 in x 3.5 in x 2.2 in)
	Weight	1.4 kg (3 lb)

Reliability

Characteristic item	Specification
Display	MTBF 50,000 hours
Backlight	MTBF 50,000 hours to 50% brightness with backlight on continuously

Environment

Characteristic item	Specification	
EMI shielding	No emission of low-level radiation	
Temperature	Operating range	10° C ~ 40° C
	Storage range	-10° C ~ 60° C
Humidity	Operating range	30% ~ 75% Relative Humidity (noncondensing)
	Storage range	5% ~ 90% Relative Humidity (noncondensing)
Altitude	Operating	2,000 m (6,560 ft) maximum
	Transport/storage	12,000 m (39,400 ft) maximum in unpressurized container

Dome E5 Specification

In locations where 240V outlets are used, connect the Dome E5 display to a center-tapped, 240V, single-phase supply only (for Canada and the United States).

Category	Characteristic Item	Specification
LCD	Technology	TFT AMLCD Dual Domain IPS, 3 subpixels per pixel
	Screen size, diagonal	541 mm (21.3 in.)
	Display resolution	2048 x 2560 pixels (portrait) 2560 x 2048 pixels (landscape)
	Pixel pitch	165 µm, 154 DPI
	Viewing angle	170° horizontal/vertical
	Response time	18 ms (typical)
	Refresh rate	50 Hz
Optical	Brightness	1100 cd/m ² (typical)
	Contrast ratio	850:1 (typical)
	DICOM LUT	16-bit architecture with 0.2 JND precision
	Colors supported	Up to 1024 shades of gray, programmable gamma from palette of up to 3061 shades
	Pixel arrangement	LCR vertical stripe
Interface	Display control -brightness/contrast	DDC2B+
	Display identification	EDID read using DDC2B+
	Display status	Dual-stack tricolor LEDs on back panel
Panel Connectivity	Video input	Dual Link DVI-D
	Pixel data sizes	8-bit and 10-bit per pixel grayscale, 24-bit color mapped to luminance
	VGA compatibility	640 x 480 to 1280 x 1024
	USB interface	Built-in USB 2.0 HUB on stand
Physical	Display size (without stand), H x W x D	470 mm x 387 mm x 103 mm (18.5 in. x 15.2 in. x 4.1 in.)
	Display weight (without stand)	6.4 kg (14 lb)
	Display weight (with stand)	10.0 kg (22 lb)
	Mounting options	100 x 100 mm VESA mounting standard. Desktop stand includes height, pivot, swivel, and tilt adjustment.
Power Requirement	Adapter	BridgePower BPM130S12F02 (with power switch) (CAUTION: Use only the adapter supplied with unit.)

Power Supply



WARNING: Use only the power adapter supplied with the Dome E5 display unit: the BridgePower BPM130S12F02 (130W) model.

Category	Characteristic Item	Specification
Power input requirements	Voltage selection	Auto-ranging
	Voltage	100–240V AC
	Current	3.0 A (3.0–1.5 A)
	Frequency	50–60 Hz
Power output requirements	Voltage	12 V DC \pm 5%
	Current	10.8 A (130W)
Power consumption	Wattage	55 W (typical)
Physical	Size	228.6 mm x 76.2 mm x 50.8 mm (9 in x 3 in x 2 in)
	Weight	1.3 kg (2.75 lb)

Reliability

Characteristic item	Specification
Display	MTBF >50,000 hours
Backlight	MTBF 50,000 hours to 50% brightness with backlight on continuously

Environment

Characteristic item	Specification	
EMI shielding	No emission of low-level radiation	
Temperature	Operating range	10° C ~ 40° C
	Storage range	-10° C ~ 60° C
Humidity	Operating range	30% ~ 75% Relative Humidity (noncondensing)
	Storage range	5% ~ 90% Relative Humidity (noncondensing)
Altitude	Operating	2,000 m (6,560 ft) maximum
	Transport/storage	12,000 m (39,400 ft) maximum in unpressurized container

Windows Video Modes

Resolutions expressed in pixels (W x H).

Display	Resolution	Orientation	Color Palette
Dome E2cHB	1200 x 1600 1600 x 1200	Portrait Landscape	32-bit
Dome E3	1536 x 2048 2048 x 1536	Portrait Landscape	32-bit [*]
Dome E3cHB	1536 x 2048 2048 x 1536	Portrait Landscape	32-bit [†]
Dome E5	2048 x 2560 2560 x 2048	Portrait Landscape	32-bit [*]

* 32-bit palette is used for 256 and 1024 shades of gray.

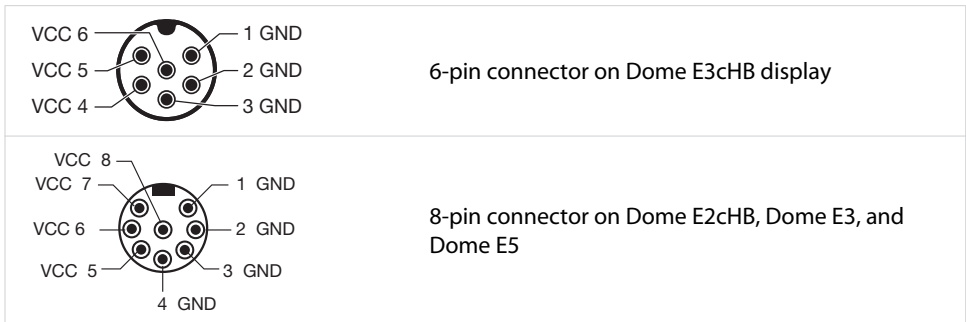
† 32-bit palette is used for 16.7 million and 1.06 billion colors.

Connector Ports

All Dome Ex displays have a DVI connector. The Dome E3cHB unit also has a DisplayPort connector.

Display	Video Port	DIN Connector	Power Input	Adapter
Dome E2cHB, Dome E3, or Dome E5	DVI	8-pin	12V \pm 5% (130 W)	BPC BPM130S12F02 (with power switch)
Dome E3cHB	DVI and DisplayPort	6-pin	24V \pm 5% (150 W)	BPC BPM150S24F05 (with power switch)

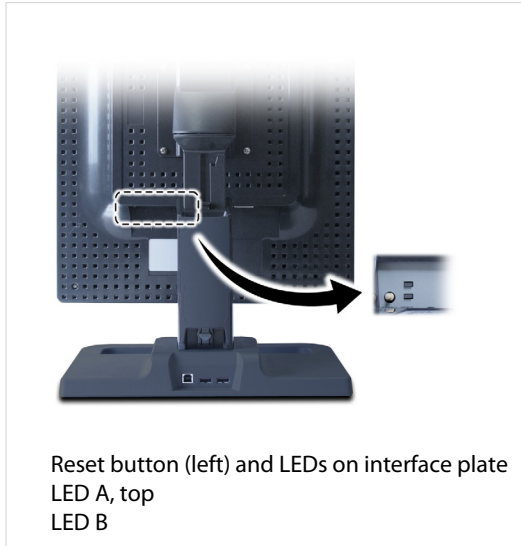
Pin assignments for the 6- and 8-pin power input ports.



LED Status Lights

The two LEDs on the back panel of the Dome Ex displays provide information about the display.

- LED A describes the digital-link status between the display controller and the interface.
- LED B describes the display-panel status. it shows any faults currently in the panel.



Power-up sequence information from LED

LED A	Action/Sequence	LED B	Action/Sequence
Dark	Initial power-on	Flashing yellow	Initial power-on
Blink yellow	Self test	Solid yellow	Power-on self test
Dark	One (1) second after power -on	Flashing green	Self test pass

LED A status information after initial power-on

LED Status	Description
Solid green	Functional link – normal operation
Flashing yellow	Link working, unrecognized sync information

LED B status information after initial power-on

LED Status	Description
Solid green	Functional system – normal operation
Flashing green	Fault
Solid yellow	DDC power-on, 12V/24V power not detected
Alternating green/yellow	POST failure

NOTE: A red LED or combination of red LEDs indicates a hardware or software fault. Contact Dome Technical Support for assistance.

Troubleshooting

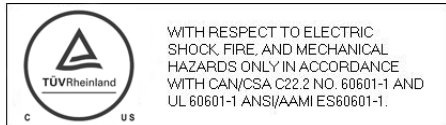
Problem	Possible Cause	Solution
No image appears on the screen	<p>Computer is OFF.</p> <p>Power cord is not securely connected.</p> <p>Video cable connected incorrectly.</p>	<p>Power on the machine.</p> <p>Tighten power cord connection and turn on computer.</p> <p>Make sure the first display of a dual-headed system or the only display of a single-headed system is connected to the primary port on the display controller.</p>
Conflict with driver version	<p>A previous version of the display driver is still installed on the computer system.</p> <p>The installation CD contains a file older than the one currently on your system.</p>	<p>Remove any existing Dome display driver before you install a more recent version.</p> <p>The Confirm File Replace dialog box appears if the installation CD contains a file older than the one currently on the system. Click No to the question, Over-write the newer file? Or, click No to All.</p>
Unable to set the maximum or native resolution of the display	<p>The function Hide all modes that this monitor cannot display is selected on a subdialog of the Windows Display Properties dialog.</p> <p>A single-link commodity graphics board is in use.</p>	<p>When using commodity graphics boards with Dome Ex displays, make sure the check box for the function is empty (unchecked).</p> <p>When using commodity graphics boards with Dome E3, Dome E3cHB, and Dome E5 displays, be sure to install a DualLink DVI graphics board.</p>

Regulatory Compliance

Canada, European Union, United States

This display has been tested and found to comply with IEC 60601-1:2005, EN 60601-1:2006, and IEC/EN 60601-1-2 standards, and is certified to meet medical standard CAN/CSA C22.2 No. 60601-1-A and UL 60601-1 ANSI/AAMI ES60601-1:2005 (R2012).

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



Dome E2cHB, Dome E3, Dome E3cHB, and Dome E5

computing devices in a typically configured system since many medical offices are located in residential areas. (This applies to Dome Ex displays except the Dome E3cHB and Dome E5 displays, which are Class A.) It is the system integrator's responsibility to test and ensure that the entire system complies with applicable electromagnetic compatibility (EMC) laws.



WARNING! Users of Dome E3cHB and Dome E5 Displays

The Dome E3cHB and Dome E5 displays are Class A products. In a domestic environment, either of these products may cause radio interference, in which case the user may be required to take adequate measures.

Radio transmitting equipment, cellular phones, etc. shall not be used in close proximity of the devices, since this could influence the performance of the device.

Particular precaution must be considered during use of strong emission sources, such as High Frequency surgical equipment and similar, so that, for example, the HF-cables are not routed on or near the devices. If in doubt, contact a qualified technician or your local representative.

This equipment/system is intended for use by healthcare professionals only. This equipment/system may cause radio interference or may disrupt the operation of nearby equipment. It may be necessary to take mitigation measures, such as reorienting or relocating the Dome Ex display or shielding the location.

We offer state-of-the-art displays suitable to 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. Dome Ex line, model Dome E2cHB is intended for use in the displaying and viewing of medical images for review, analysis, and diagnosis by trained medical practitioners. Dome Ex line, model Dome E3 is intended for use in the displaying and viewing of radiography images for review, analysis, and diagnosis by trained medical practitioners. Dome Ex line, model Dome E3cHB is intended for use in the displaying and viewing of medical images for review and analysis by trained medical practitioners. Dome Ex line, model Dome E5 is intended for use in the displaying and viewing of medical images, including radiographs of the breast, for review and analysis by trained medical practitioners. 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.

For Dome E2cHB, Dome E3cHB, and Dome E5 each, 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.

Furthermore, the applicable safety standards for an MDD Class I display are EN 60601-1:2006 and IEC 60601-1:2005. To help the medical device designer evaluate the suitability of these displays, NDSsi 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, NDSsi configured a minimal operating system to exercise the display. The resulting data are made available to interested parties.

For Dome E3, the display was classified as required by the MDD 93/42/EEC, according to Annex IX Classification Criteria rule 10, dash three. The above intended use for review, analysis, and diagnosis is a Class IIa medical device. Thus, we believe the Dome E3 is a Class IIa medical device, and subject to Notified Body's approval.

Furthermore, the applicable safety standards for an MDD Class IIa display are EN 60601-1:2006 and IEC 60601-1:2005. To help the medical device designer evaluate the suitability of this display, NDSsi 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, NDSsi configured a minimal operating system to exercise the display. The resulting data are made available to interested parties.

This is 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, NDS Surgical Imaging 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. NDSsi has the necessary documentation such as IEC 60601-1:2005, EN 60601-1:2006, and IEC/EN 60601-1-2 and third-party test reports and certifications, a risk/hazard analysis, an essential requirements checklist, and the NDS Surgical Imaging European Community CE marking directive Declaration of Conformity.

NDS Surgical Imaging, located in San Jose, Calif., USA, is the manufacturer of these displays in the meaning of the directive. As required by the MDD in Article 14, NDS Surgical Imaging, not residing in the European Economic Area (EEA), has a European representative, NDS Surgical Imaging —located at Nijverheidscentrum 28, 2761 JP Zevenhuizen, The Netherlands (phone +31-180-63-43-56; fax +31-180-63-21-91).

In the opinion of NDS Surgical Imaging registration required to put this device into commerce is the responsibility of the medical device/system manufacturer, and NDS Surgical Imaging supports this requirement by providing a European Commission (EC) declaration of conformity. If NDS Surgical Imaging 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.

The supplier will make available on request, circuit diagrams, component part lists, etc.

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


EU Declaration of Conformity for Medical Application

A Declaration of Conformity has been filed for this product. For additional copies of the Declaration of Conformity document, contact NDS Surgical Imaging.

The Dome E2cHB, Dome E3, Dome E3cHB, and Dome E5 digital flat-panel displays meet the essential health and safety requirements of, are in conformity with, and the CE marking has been applied according to the relevant EU Directives listed below, using the relevant section of the following EU standards and other normative documents;

EU EMC Directive 2004/108/EC

EU Electromagnetic Compatibility Directive

EN 60601-1-2 Medical Electrical Equipment	Collateral standard electromagnetic compatibility requirements
EN 55011	Limits and methods of measurements for radio interference characteristics of industrial, scientific, and medical equipment
IEC 1000-3-2	Harmonic emissions
IEC 1000-3-3	Voltage fluctuations/flicker emissions
IEC 1000-4-2	Electrostatic discharge requirements for industrial process measurement and control equipment
IEC 1000-4-3	Radiated electromagnetic field requirements for industrial process measurement and control equipment
IEC 1000-4-4	Electrically fast transients for industrial process measurement and control equipment
IEC 1000-4-5	Surge requirements
IEC 1000-4-11	Voltage variations/dips/interrupts
IEC 1000-4-6	Conducted immunity
IEC 1000-4-8	Magnetic field immunity
	Conformance to the Medical Device Directive 93/42/EEC
EN 60601-1:2006 Medical Electrical Equipment	Part 1: General requirements for safety

U.S. FCC Compliance Statement

Class B Digital Device: Dome E2cHB or Dome E3 Display

This device complies with Part 15 of the FCC Rules.



Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

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

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

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment under FCC rules.

Class A Digital Device: Dome E3cHB or Dome E5 Display

This device complies with Part 15 of the FCC Rules.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.


This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment under FCC rules.

Model Dome E series needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided in the ACCOMPANYING DOCUMENTS; Portable and mobile RF communications equipment can affect the Dome E series.

1. ELECTROMAGNETIC EMISSIONS

Guidance and Manufacturer’s Declaration—Electromagnetic Emissions		
The Dome E series is intended for use in the electromagnetic environment specified below. The customer or the user of the display should assure that it is used in such an environment.		
EMISSIONS	COMPLIANCE	ELECTROMAGNETIC ENVIRONMENT—GUIDANCE
RF emissions CISPR 11	Group 1	The Dome E series uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	The Dome E series is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Not Applicable	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Not Applicable	
 WARNING! The use of accessories and cables other than those specified, with the exception of transducers and cables sold by the manufacturer of the Dome E series as replacement parts for internal components, may result in increased EMISSIONS or decreased IMMUNITY of the Dome E series.		


2. ELECTROMAGNETIC IMMUNITY

Guidance and Manufacturer's Declaration 211; Electromagnetic Immunity			
The model Dome E series is intended for use in the electromagnetic environment specified below. The customer or the user of the display should assure that it is used in such an environment.			
IMMUNITY TEST	IEC 60601-1:2005 TEST LEVEL	COMPLIANCE LEVEL	ELECTROMAGNETIC ENVIRONMENT—GUIDANCE
Electrostatic discharge (ESD) IEC 61000-4-2	±6 kV contact ±8 kV air	±6 kV contact ±8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/burst IEC 61000-4-4	±2 kV for power supply lines	±2 kV for power supply lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	±1 kV line(s) and neutral	±1 kV line(s) and neutral	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions, and voltage variations on power supply input lines IEC 61000-4-11	<5 % U_T (>95 % dip in U_T) for 0.5 cycle 40 % U_T (60 % dip in U_T) for 5 cycles 70 % U_T (30 % dip in U_T) for 25 cycles <5 % U_T (>95 % dip in U_T) for 5s	<5 % U_T (>95 % dip in U_T) for 0.5 cycle 40 % U_T (60 % dip in U_T) for 5 cycles 70 % U_T (30 % dip in U_T) for 25 cycles <5 % U_T (>95 % dip in U_T) for 5s	Mains power quality should be that of a typical commercial or hospital environment. If a dips or an interruption of mains power occurs, the current of the model Dome E series may be dropped off from normal level, it may be necessary to use uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	Not applicable	Not applicable
NOTE: U_T is the AC mains voltage prior to application of the test level.			

3. ELECTROMAGNETIC IMMUNITY

Guidance and Manufacturer’s declaration–Electromagnetic Immunity

The model Dome E series is intended for use in the electromagnetic environment specified below. The customer or the user of the Dome E series should assure that it is used in such an environment.

IMMUNITY TEST	IEC 60601-1:2005 TEST LEVEL	COMPLIANCE LEVEL	ELECTROMAGNETIC ENVIRONMENT – GUIDANCE
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz	3 Vrms	Portable and mobile RF communications equipment should be used no closer to any part of the Dome E series, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance $d = 1, 2\sqrt{P}$ $d = 1, 2\sqrt{P}$ 80 MHz to 800 MHz $d = 2, 3\sqrt{P}$ 800 MHz to 2.5 GHz where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, (a) should be less than the compliance level in each frequency range; (b) interference may occur in the vicinity of equipment marked with the following symbol: 
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2.5 GHz	3 V/m	

NOTE 1: At 80 MHz and 800 MHz, the higher frequency range applies.

NOTE 2: these guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

(a) Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) tele-phones and land mobile radios, amateur radio, AM and FM radio broadcast, and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the model Dome E series is used exceeds the applicable RF compliance level above, the display should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the display.

(b) Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.



WARNING! The Dome E series should not be used adjacent to or stacked with other equipment.

4. RECOMMENDED SEPARATION DISTANCES

Recommended Separation Distances Between Portable and Mobile RF Communications Equipment and the Dome E Series

The model Dome E series is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the display can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the displays as recommended below, according to the maximum output power of the communications equipment.

RATED MAXIMUM OUTPUT POWER OF TRANSMITTER (W)	SEPARATION DISTANCE ACCORDING TO FREQUENCY OF TRANSMITTER (m)		
	150 kHz to 80 MHz	80 MHz to 800 MHz	800 MHz to 2.5 GHz
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE 1: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

Each Dome Ex display has one or more of the following certifications.

China



China Compulsory Certification regulating safety and EMC.

GB4943-2011

GB9254-2008

GB17625.1-2012

Class A

Dome E3cHB and Dome E5

声 明

此为 A 级产品、在生活环境中、该产品可能会造成无线电干扰。在这种情况下、可能需要用户对其它干扰采取切实可行的措施。

Germany



TÜV Rheinland GM Mark for medical products.

Japan



Voluntary Control Council for Interference by information technology equipment sold in Japan.

Class A

Dome E3cHB and Dome E5

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスA 情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

Class B

Dome E2cHB and Dome E3

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスB 情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。

取扱説明書に従って正しい取り扱いをして下さい。

Korea



Korea Certification.

NDSsi Dome® Display Products

Warranty and Service Terms and Conditions

STANDARD LIMITED WARRANTY

COVERAGE: NDS Surgical Imaging, LLC (hereinafter "NDSsi") warrants this product to be in compliance with the specifications provided by NDSsi and to be free from defects in material and workmanship as defined in such specifications. Subject to the conditions set forth below, NDSsi agrees to repair or replace any defective part of the enclosed unit for the length of period indicated on the chart below.

NDSsi PRODUCT	STANDARD WARRANTY COVERAGE
Dome® E Series Radiology Displays	<ul style="list-style-type: none"> • Standard 5-year "repair and return" warranty • 10-year backlight warranty on grayscale displays* • 5-year backlight warranty on color displays^{† ‡}
Dome® S Series Radiology Displays	<ul style="list-style-type: none"> • Standard 5-year "repair and return" warranty • 10-year backlight warranty on grayscale displays* • 5-year backlight warranty on color displays[†]
Dome® GX4MP Display	<ul style="list-style-type: none"> • Standard 5-year "repair and return" warranty • 5-year backlight warranty**
Dome® GX2MP Display VitalScreen® Display	Standard 3-year "repair and return" warranty

* If, within 10 years of initial purchase, the maximum output of the Dome Ex/Dome Sx grayscale display is determined by NDSsi to be less than 300 cd/m², NDSsi will repair or replace the display at its sole discretion. The display must have been run at or below the CXtra default brightness setting as configured from the factory.

† If, within 5 years of initial purchase, the maximum output of the Dome Ex/Dome Sx color display (excluding the Dome E4c) is determined by NDSsi to be less than 250 cd/m², NDSsi will repair or replace the display at its sole discretion. The display must have been run in native color mode at or below the CXtra default brightness setting as configured from the factory.

‡ If, within 5 years of initial purchase, the maximum output of the Dome E4c color display is determined by NDSsi to be less than 175 cd/m², NDSsi will repair or replace the display at its sole discretion. The display must have been run in native color mode at or below the CXtra default brightness setting as configured from the factory.

** If, within 5 years of initial purchase, the maximum output of the Dome GX4MP color display is determined by NDSsi to be less than 175 cd/m², NDSsi will repair or replace the display at its sole discretion. The display must have been run in native color mode at or below the CXtra default brightness setting as configured from the factory.

EXCLUSIONS – WHAT IS NOT COVERED

- 1 Any product with a defaced, modified, or removed serial number.
- 2 Damage, deterioration or a malfunction resulting from accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
- 3 Cosmetic damage including, but not limited to scratches, cracks, dents, markings, glue and adhesive residue.
- 4 Any damage of the product due to shipment.
- 5 Any damage caused by factors external to the product, such as electric power fluctuation or failure.
- 6 Normal wear and tear, including backlights dimming over time, or image retention resulting from displaying fixed images for long periods of time.
- 7 Removal, installation, and set-up service charges.
- 8 Failures not reported within the warranty term.
- 9 Any NDSsi products purchased through a distributor, reseller, or medical device manufacturer other than NDSsi (each, an “Intermediary”), where such Intermediary provides direct warranty service to its end-user customers in connection with such product.*

DISCLAIMER

This limited product warranty sets forth your sole and exclusive remedy and NDSsi’s sole and exclusive liability under the Standard Limited Warranty described herein.

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION CONTAINED HEREIN INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NONINFRINGEMENT.

* Note that NDSsi sells its products through distributors, resellers, and other medical device manufacturers which prefer to provide their end-user customers with direct warranty support. Contact NDSsi Customer Care to determine if the product that you purchased is covered by this Standard Limited Warranty or whether you need to contact the Intermediary through which you purchased the product for warranty service.

NDSSI'S LIABILITY IS LIMITED TO THE COST OF REPAIR OR REPLACEMENT OF THE PRODUCT. NDSSI SHALL NOT BE LIABLE FOR THE FOLLOWING:

- 1 DAMAGE TO OTHER PROPERTY CAUSED BY ANY DEFECTS IN THE PRODUCT, DAMAGES BASED UPON INCONVENIENCE, LOSS OF USE OF THE PRODUCT, LOSS OF TIME, LOSS OF PROFITS, LOSS OF BUSINESS OPPORTUNITY, LOSS OF GOODWILL, INTERFERENCE WITH BUSINESS RELATIONSHIPS, OR OTHER COMMERCIAL LOSS, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
- 2 ANY OTHER DAMAGES, WHETHER INCIDENTAL, INDIRECT, CONSEQUENTIAL OR OTHERWISE.
- 3 ANY CLAIM AGAINST THE CUSTOMER BY A THIRD PARTY.

End-users are cautioned that system configuration, software, the application, customer data and operator control of the system, among other factors, affect the product performance. While NDSsi products are considered to be compatible with many systems, specific functional implementation by the customers of the product may vary. Therefore, suitability of a product for a specific purpose or application must be determined by consumer and is not warranted by NDSsi.

This warranty gives you specific legal rights. You may have other rights, which may vary from locality to locality. Some localities do not allow limitations on implied warranties and/or do not allow the exclusion of incidental or consequential damages, so the above limitations might not apply to you.

WARRANTY SERVICE - REPAIR & RETURN – (U.S., LATIN AMERICA, AND CANADA ONLY)

- Our standard warranty service is "Repair and Return". Repair and Return requires the defective unit to be returned to our service location for repair.
- Our service location will repair your unit within ten (10) business days. The service time-period does not include in-transit shipping time to or from our service location.
- Cost of shipment of the defective unit to NDSsi is the responsibility of the customer. Cost of shipment of the repaired unit to Customer is the responsibility of NDSsi (duties and taxes to Canada and Latin America are not included).
- NDSsi reserves the right in its sole discretion to provide customer with a comparable refurbished replacement unit in lieu of repair of customer's defective unit.
- If NDSsi is unable within a reasonable time to repair or replace the defective unit, it shall refund the purchase price for the product paid by the customer (exclusive of taxes, installation and shipping related fees).
- NDSsi provides a complimentary 90-day Out of Box Failure (OBF) replacement warranty from the date of shipment from NDSsi.

CONTACTING NDSSI CUSTOMER CARE

PRODUCT LINE	Dome®
TOLL FREE	(866) 961-9340
LOCAL	(503) 620-3787
E-MAIL	medicalsupport@ndssi.com
HOURS	6 A.M. – 5 P.M. Pacific Time, Monday – Friday

- 1 Contact NDSsi Medical Support during the hours listed above. Have your NDSsi model number and serial number available. You may be required to provide proof of purchase as a condition for receiving warranty service.
- 2 Our representative may perform troubleshooting and diagnosis of the problem by telephone or e-mail. If our representative is unable to fix the problem by telephone or e-mail, we will issue a Return Material Authorization (RMA) for the nonfunctioning unit and provide return instructions.
- 3 Upon receipt of the returned product, a service technician will evaluate the unit and confirm the failure description provided by the customer.
 - (a) If the found failure type is covered under warranty, the repair, parts, labor and shipment back to the customer will be at no charge.
 - (b) If the found failure type is not covered under warranty, NDSsi's then current evaluation fee will apply in addition to the cost of parts, labor and the return shipment.
 - (c) If the unit is within the warranty period but the customer does not provide a problem description and the service technician cannot determine the failure (no problem found – "NPF") NDSsi's then current evaluation fee will apply in addition to return shipment.

PAYMENT FOR NONWARRANTY EVALUATIONS AND REPAIRS AND OTHER EVALUATION CHARGES: Nonwarranty repairs requested by customer will be performed at NDSsi's then current rates for any nonwarranty repairs and will include applicable evaluation fees and the cost of return shipping (if customer requests that NDSsi ship the repaired product). NDSsi further reserves the right in its sole discretion to request pre-payment for any nonwarranty repairs, NPF evaluations, and return shipping charges prior to return of the product to customer. Any invoiced amount not paid when due shall be subject to a service charge equal to the lesser of one and one-half percent (1.5%) per month or the maximum rate permitted by law. If NDSsi undertakes collection or enforcement efforts, customer shall be liable for all costs thereof, including attorney's fees. NDSsi reserves the right to suspend warranty coverage to any customer who is in default of payment until such payment has been made.

ITEM	ITEM NUMBER	DESCRIPTION
Dome E2cHB display	933-0986	2-megapixel color, high-bright display.
Dome E3 display	933-0549	3-megapixel grayscale display.
Dome E3cHB display	933-0981	3-megapixel color, high-bright display.
Dome E5 display	933-0544	5-megapixel grayscale display.
Power adapter, 6-pin	902-0174	Power block (24V, 150W) with 6-pin DIN connector for use with the Dome E3cHB display.
Power adapter, 8-pin	902-0173	Power block (12V, 130W) with 8-pin DIN connector for use with the Dome E2cHB, Dome E3, or Dome E5 display.
Power cord, US	903-0500	Medical-grade power cord for use in the United States.
Power cord, EU	903-0499	Medical-grade power cord for use in the European Union.
Power cord, CN	903-0497	Medical-grade power cord for use in China.
DVI cable	903-0538	Video cable for use with any Dome Ex display.
DisplayPort cable	903-1138	Video cable for use with the Dome E3cHB display.
Quick reference	020-0915	Installation booklet for Dome display systems.

The use of ACCESSORIES, transducers, and cables other than those specified, with the exception of transducers and cables sold by the MANUFACTURER of the ME EQUIPMENT or ME SYSTEM as replacement parts for internal components, may result in increased EMISSIONS or decreased IMMUNITY of the ME EQUIPMENT or ME SYSTEM.



NDS Surgical Imaging, LLC
5750 Hellyer Avenue
San Jose CA 95138-1000 USA
www.ndssi.com



NDS Surgical Imaging BV
Nijverheidscentrum 28
2761 JP Zevenhuizen (ZH)
The Netherlands
+31 180 63 43 56 Tel
+31 180 63 21 91 Fax

