DOME E3cHB

3MP Diagnostic Color Display

DOME by **NDSsi**

The **Dome E3cHB** is a high-bright display ideal for general purpose imaging and deployable throughout the hospital enterprise.

- High-bright 3MP color display
- Suitable for grayscale and color images
- Flexible, lightweight, low-power design
- Quality image viewing without compromise

DICOM Always: Dome E3cHB displays are fully factory characterized using a NIST-traceable photometer, which provides high quality characterization of diagnostic displays. The characterization data is stored in the panel and allows the display to remain in perfect DICOM calibration for the life of the display. No additional field calibration is ever necessary. You simply open the box, plug it in, and you're ready.

ClearView: The American College of Radiology recommends that "Protective shields on LCDs add to reflections and should not be used if possible." Reflective glass can also reflect backwards onto the display blurring the diagnostic images. Some companies continue to believe adding reflective glass is a feature. We agree with the ACR, image quality comes first, so we don't put reflective glass on our Dome E3cHB display.

Fanless: Dome E3cHB displays use intelligent engineering for sleek, low-power, fanless designs. No mechanical fans to fail or draw in dust which can cause electronics to fail prematurely. Lower power, lower heat, lower cost of ownership thanks to Dome's unmatched engineering excellence.

Feather-Light Design: Quality engineering shows in the highly reliable and efficient Dome E3cHB display. It also shows in its physical design. Efficient cooling, low-power components, and intelligent electronics all contribute to a sleek and lightweight display. Feather light means engineered right!

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LCD CHARACTERISTICS

Technology	TFT AMLCD Dual Domain IPS, 3 subpixels per pixel
Screen Size	21.3" (541mm)
Display Resolution	1536 x 2048 Portrait 2048 x 1536 Landscape
Pixel Pitch	211.5µm, 120 DPI
Viewing Angle	176° horizontal and vertical
Response Time	14 ms typical

OPTICAL CHARACTERISTICS

Brightness	800 cd/m^2 typical
Default Calibrated	500 cd/m^2
Contrast Ratio	750:1 typical
DICOM LUT	16-bit architecture with 0.3 JND precision
DICOM Characterization	LCD panels individually factory characterized with a NIST-traceable photometer. Characteristic data is stored in the display and remains available throughout the product life.
DICOM Calibration	DICOM calibration performed by Dome CXtra™ using the RightLight™ internal photometer and automatically maintained for the life of the display.
DICOM Conformance Testing	DICOM conformance maintained by RightLight™ internal photometer. Independent conformance testing using Dome CXtra™ with an external photometer.

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 CHARACTERISTICS

Display Size without stand (H x W x D)	18.7" x 14.5" x 4.0" (475mm x 369mm x 102mm)
Weight without stand	15 lbs (6.6 kg)
Weight with stand	23 lbs (10.2 kg)
Mounting Options	100 x 100 mm VESA mounting standard. Desktop stand includes height, pivot, swivel, and tilt adjustment.
Power Input	100 to 240 VAC 50-60 Hz
Power Consumption	81 Watts typical
Operating Range	10 to 35 degrees C

CERTIFICATIONS

Medical	FDA registration #2954921 and #1226517; 510(k)
Safety & EMI	ANSI/AAMI ES60601-1, EN60601-1, EN60601-1-2, CAN/CSA-C22.2 No. 60601-1, FCC, CE, CCC, TUV-GM, VCCI, KCC
Environmental	RoHS, WEEE, REACH

SERVICE AND SUPPORT

Warranty	5-year standard warranty
Backlight Warranty	5-year standard warranty

Specifications may vary based on specific customized solution requirements.

- 3MP color display — **3MP**
- RightLight™ monitoring for DICOM conformance
- Clear images without reflective glass
- Factory characterized for life — **ALWAYS**
- High-precise DICOM LUT — **PRECISE**
- Full 30-bit color support — **30BIT**
- Green by design
- Low-power, fanless design
- Feather-light, small footprint design
- World-class warranty — **W 5YR**
- Industry-leading backlight warranty — **5YR**
- Full bandwidth DisplayPort support — **D**
- High-speed, dual-link DVI — **DVI**

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