

DOME E2cHB

2MP Diagnostic Color Display



The **Dome E2cHB** is a high-bright display ideal for 2MP imaging and deployable throughout the hospital enterprise.

- High-bright 2MP color display
- Suitable for grayscale and color images
- Precise DICOM imaging in a compact display
- RightLight-controlled DICOM for life



DICOM Always: Dome E2cHB displays are fully factory characterized using a NIST-traceable photometer, providing the highest quality characterization of any diagnostic display. 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.



Precise LUT: Dome displays include precision DICOM lookup tables (LUTs), giving extra fine control of gray shades and near-perfect DICOM conformance. Standard displays fail to provide the precision needed to accurately match the DICOM curve and hence fail to meet the demanding needs of diagnostic imaging.



RightLight™:

RightLight™ monitoring provides proven backlight stabilization and automatic DICOM compliance. RightLight™ is constantly monitoring your system to provide displays that are always ready for diagnostic viewing.



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 E2cHB display.

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LCD CHARACTERISTICS

Technology	TFT AMLCD Dual Domain IPS, 3 subpixels per pixel
Screen Size	19.6" (498mm)
Display Resolution	1200 x 1600 Portrait 1600 x 1200 Landscape
Pixel Pitch	249µm, 102 DPI
Viewing Angle	170° horizontal and vertical
Response Time	50 ms typical

OPTICAL CHARACTERISTICS

Brightness	800 cd/m ² typical
Default Calibrated	500 cd/m ²
Contrast Ratio	700:1 typical
DICOM LUT	2041 shades of gray
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	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 CHARACTERISTICS

Display Size without stand (H x W x D)	17.3" x 13.5" x 3.7" (440mm x 343mm x 95mm)
Weight without stand	12 lbs (5.4 kg)
Weight with stand	20 lbs (9.1 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	60 Watts typical, 90 Watts max
Operating Range	0 to 35 degrees C












CERTIFICATIONS

Medical	FDA 510(k)
Safety & Emissions	CSAus, EN60601-1, 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.

- 2MP color display 
- RightLight™ monitoring for DICOM conformance 
- Clear images without reflective glass 
- Factory characterized for life 
- High-precision DICOM LUT 
- Green by design 
- Low-power, fanless design 
- Feather-light, small footprint design 
- World-class warranty 
- Industry-leading backlight warranty 
- High-speed DVI 



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