

# DOME E5

## 5MP Diagnostic Grayscale Display for Mammography



The **Dome E5** grayscale display is built for the most demanding diagnostic applications, including mammography, CR, and DR with unsurpassed image quality and resolution.

- High-bright 5MP grayscale display
- Ideal for high-end radiology and mammography
- Flexible, lightweight, low-power design
- Uncompromised, pristine image quality



**10-Bit Grayscale:** The Dome E5 supports 10-bit and 8-bit grayscale image data through industry standard interfaces. Dome's 10-bit data paths allow images with 1024 simultaneous shades of gray to display for the most demanding image viewing tasks.

**DICOM Always:** Dome E5 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 product. No additional field calibration is ever necessary.

**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. We agree with the ACR, image quality comes first, so we don't put reflective glass on our Dome E5 display.

**Fanless:** Dome E5 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 and lower heat means lower cost of ownership.

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### LCD CHARACTERISTICS

Technology	TFT AMLCD Dual Domain IPS, 3 subpixels per pixel
Screen Size	21.3" (541mm)
Display Resolution	2048 x 2560 Portrait 2560 x 2048 Landscape
Pixel Pitch	165µm, 154 dpi
Viewing Angle	170° horizontal and vertical
Response Time	18 ms typical

### OPTICAL CHARACTERISTICS

Brightness	1100 cd/m <sup>2</sup> typical
Default Calibrated	500 cd/m <sup>2</sup>
Contrast Ratio	850:1 typical
DICOM LUT	16-bit architecture with 0.2 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. DICOM calibration LUT stored in the display 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	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 CHARACTERISTICS

Display Size without stand (H x W x D)	18.5" x 15.2" x 4.1" (470mm x 387mm x 103mm)
Weight without stand	14 lb (6.4 kg)
Weight with stand	22 lb (10.0 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	55 Watts typical
Operating Range	10 to 35 degrees C













### CERTIFICATIONS

Medical	FDA registration #2954921; 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	10-year standard warranty

*Specifications may vary based on specific customized solution requirements.*

- 5MP grayscale display 
- RightLight™ monitoring for DICOM conformance 
- Clear images without reflective glass 
- Factory characterized for life 
- High-precise DICOM LUT 
- Full 10-bit data path 
- Green by design 
- Low-power, fanless design 
- Feather-light, small footprint design 
- World-class warranty 
- Industry-leading backlight warranty 
- High-speed, dual-link DVI 



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