

## DOME E3

### 3MP Diagnostic Grayscale Display



The **Dome E3** is the benchmark of diagnostic, grayscale displays with high luminance and contrast, and pristine image quality.

- High-bright 3MP grayscale display
- Ideal for general radiology use
- Flexible, lightweight, low-power design
- RightLight™-controlled DICOM for life



**DICOM Always:** Dome E3 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.



**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.



**10-Year Backlight Warranty:** Dome's backlight warranty is the best in the industry with 10-year warranty on grayscale displays. See warranty information for further details. Our designs warrant your confidence.



#### 10-Bit Grayscale:

The Dome E3 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.



**Green by Design:** At NDSsi, we believe real sustainability means considering the full product lifespan, not only the product's manufacturing.

Dome displays comply with international environmental standards such as RoHS, REACH, and WEEE directives, but our products are also designed to deliver high performance with remarkably low power consumption, leaving a smaller carbon footprint behind.

# DOM E3

## 3MP Diagnostic Grayscale Display



### LCD CHARACTERISTICS

Technology	TFT AMLCD Dual Domain IPS, 3 subpixels per pixel
Screen Size	20.8" (528mm)
Display Resolution	1536 x 2048 Portrait 2048 x 1536 Landscape
Pixel Pitch	206µm, 123 dpi
Viewing Angle	170° horizontal and vertical
Response Time	25 ms typical

### OPTICAL CHARACTERISTICS

Brightness	1000 cd/m <sup>2</sup> typical
Default Calibrated	600 cd/m <sup>2</sup>
Contrast Ratio	900:1 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)	18.7" x 14.5" x 4.0" (475mm x 368mm x 102mm)
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	60 Watts typical
Operating Range	10 to 40 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.*

3MP 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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