

DOME S3


Premium 3MP Diagnostic Grayscale Display





The **Dome S3** is an innovative display system equipped with Dome RightCheck front sensor technology. The S3 delivers high luminance and contrast and superior image quality ideal for diagnostic imaging.


- High-bright 3MP grayscale display
- Ideal for x-ray chest, CT, and MRI
- RightCheck sensor for remote conformance testing
- Quality image viewing without compromise




 **RightCheck:** Based on Dome's patent pending sensor technology for optimum remote testing and validation. Our unique technology gives us precise measurements for quick and confident confirmation of DICOM conformance.

 **10-Bit Grayscale:** The Dome S3 supports 10-bit and 8-bit grayscale image data through industry standard interfaces. Few other displays offer support for high bit depth images, and those that do often require the use of proprietary libraries. Dome's 10-bit data paths allow images with 1024 simultaneous shades of gray to display for the most demanding image viewing tasks.

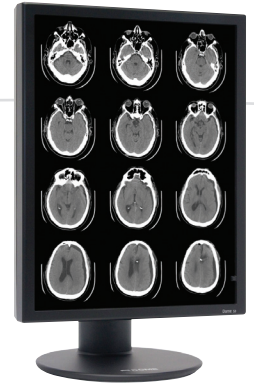
 **RightLight™:** RightLight™ monitoring provides proven backlight stabilization and automatic DICOM compliance. RightLight™ is constantly monitoring your system to provide displays that are always ready for diagnostic viewing.

 **DICOM Always:** Dome S3 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.

 **Fanless:** Dome S3 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.

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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	212µm, 120 DPI
Viewing Angle	170° horizontal and vertical
Response Time	24 ms typical

OPTICAL CHARACTERISTICS

Brightness	1450 cd/m ² typical
Default Calibrated	500 cd/m ²
Contrast Ratio	900:1 typical
DICOM LUT	3061 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. Automated conformance testing through RightCheck front sensor.

PANEL CONNECTIVITY

Video Input	DisplayPort 1.1 and Dual Link DVI-D
Pixel Data Sizes	8-bit, 10-bit per pixel grayscale, 24-bit color mapped to luminance
VGA Compatibility	640 x 480 to 1280 x 1024
USB Interface	USB B upstream port

PHYSICAL CHARACTERISTICS

Display Size without stand (H x W x D)	18.7" x 14.3" x 3.9" (475mm x 363mm x 99mm)
Weight without stand	14 lbs (6.4 kg)
Weight with stand	21 lbs (9.3 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	80 Watts typical, 90 Watts max
Operating Range	10 to 35 degrees C

CERTIFICATIONS

Medical	FDA 510(k) Registration #2954921 and #1226517
Safety & EMI	CSAus, EN60601-1, EN60601-1-2, 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



Patent pending RightCheck sensor



Factory characterized for life



High-precise DICOM LUT



Full 10-bit data path



Energy efficient and Green by design



Low-power, fanless design



Feather-light, small footprint design



World-class warranty



Industry-leading backlight warranty



Full bandwidth DisplayPort support



High-speed, dual-link DVI



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