

DOME S3 LED

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.

- 3MP grayscale display
- RightCheck sensor for remote conformance testing
- High-bright LED Backlight
- Quality image viewing without compromise



RightCheck: 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.



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.



10-Bit Grayscale: The Dome S3 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.



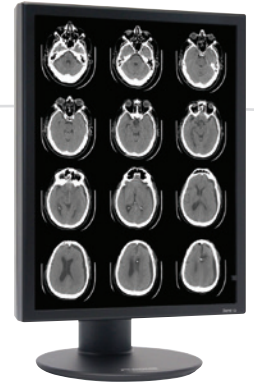
DICOM Always: Dome S3 displays are fully factory characterized using a NIST-traceable photometer, which provides high quality characterization of diagnostic displays. The characterization data is stored in the panel and allows the display to remain in perfect DICOM calibration for the life of the product. No additional field calibration is necessary.



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 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	1536 x 2048 Portrait 2048 x 1536 Landscape
Pixel Pitch	211.5µm, 120 DPI
Viewing Angle	176° horizontal and vertical
Response Time	20 ms typical

OPTICAL CHARACTERISTICS

Brightness	1700 cd/m ² typical
Default Calibrated	600 cd/m ²
Contrast Ratio	1400:1 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 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 (see user manual)

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 lb (6.4 kg)
Weight with stand	21 lb (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	37 Watts typical
Operating Range	0 to 40 degrees C

CERTIFICATIONS
















Medical	FDA registration #2954921; FDA 510(k)
Safety & EMI	ANSI/AAMI ES60601-1, UL 60601-1, CAN/CSA -C22.2 No. 60601-1, IEC/EN60601-1, FCC Part 15A, IECs-003, EN60601-1-2
Environmental	RoHS2, 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.

Compatible with Dome Dashboard™ Software.

- 3MP grayscale display 
- LED backlight 
- 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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