

DOME S10

Premium 10MP Diagnostic Grayscale Display



The **Dome S10** display enables the next great advancement for mammography with the brightness and speed for tomosynthesis. The S10 grayscale display is capable of showing two 5MP images for back-to-back chest wall reads.

- Widescreen 10MP grayscale display
- Ideal for mammography & tomosynthesis
- Sleek, lightweight, low-power design
- Quality image viewing without compromise



10-Bit Grayscale: The Dome S10 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.

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 S10 display.

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.

Fanless: Dome S10 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.

Feather-Light Design: Quality engineering shows in the highly reliable and efficient Dome S10 display. It also shows in its physical design. Efficient cooling, low-power components, and intelligent electronics all contribute to a sleek and lightweight display.

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LCD CHARACTERISTICS

Technology	TFT AMLCD Dual Domain IPS, single 10-bit pixels
Screen Size	30" (761mm)
Display Resolution	4096 x 2560 Landscape Dual 2048 x 2560 Portrait
Pixel Pitch	158µm, 161 dpi
Viewing Angle	170° horizontal and vertical
Response Time	20 ms typical

OPTICAL CHARACTERISTICS

Brightness	1250 cd/m ² typical
Default Calibrated	500 cd/m ²
Contrast Ratio	800:1 minimum
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. Automated conformance testing through RightCheck front sensor.

PANEL CONNECTIVITY

Video Input	Two 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	USB B upstream port

PHYSICAL CHARACTERISTICS

Display Size without stand (H x W x D)	27.5" x 18.6" x 3.1" (699mm x 473mm x 80mm)
Weight without stand	17 lbs (7.7 kg)
Weight with stand	24 lbs (10.9 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	90 Watts typical
Operating Range	0 to 40 degrees C















CERTIFICATIONS

Medical	FDA 510(k) cleared, K132770
Safety & EMI	UL60601-1, EN60601-1, EN60601-1-2, CAN/CSA C22.2 601.1, 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.

- 10MP grayscale display 
- RightLight™ monitoring for DICOM conformance 
- Clear images without reflective glass 
- Patent pending RightCheck sensor 
- DICOM always, factory characterized for life 
- High-precision DICOM LUT 
- Full 10-bit data path 
- Green by design 
- Low-power, fanless design 
- Widescreen for two displays in one 
- Feather-light, small footprint design 
- High-speed, dual-link DVI 
- World-class warranty 
- Industry-leading backlight warranty 



Corporate Headquarters
5750 Hellyer Avenue
San Jose, CA 95138 (USA)
Tel: 408 776 0085
Toll Free: 866 637 5237
Email: info@ndssi.com

Europe
Nijverheidscentrum 28
2761 JP Zevenhuizen (ZH)
The Netherlands [EC REP](#)
Tel: +31 180 63 43 56
Email: info-emea@ndssi.com

Asia Pacific
East Square Omori,
6-20-14 Minamioi, Shinagawa-ku
Tokyo 140-0013, Japan
Tel: +81 3 5753 2466
Email: info@ndssi.jp