Nio 5MP LED (MDNG-5221)

5MP diagnostic grayscale display system

FDA-cleared for radiology and mammography viewing and featuring a number of unique imaging technologies, Nio 5MP LED provides excellent image quality for confident diagnoses.

Thanks to the high-bright LED backlights, Nio 5MP LED helps you see more shades of gray. Additionally, Uniform Luminance Technology ensures subtle details become more noticeable more quickly, resulting in reduced windowing and leveling time.

Quality assured

The unique front-of-screen sensor guarantees consistent and precise images at all times. It works seamlessly with Barco's online MediCal QAWeb software for automated Quality Assurance and on-demand calibration, so you are viewing perfect DICOM images.

High return

Using energy-efficient LED backlights, Nio 5MP LED is as low in power consumption as it is high in brightness. Because it uses less power, the display produces less heat and requires less cooling, which impacts maintenance and operational costs. Additionally, the LED backlights offer a long lifetime - even at high brightness - providing an excellent return on your investment.

BARCO

Visibly yours

Product specifications	Nio 5MP LED (MDNG-5221)
Screen technology	a-si TFT active matrix dual domain IPS
Backlight	LED
Active screen size (diagonal)	540 mm (21.3")
Active screen size (H x V)	422.4 mm x 337.9 mm (16.5 x 13.3")
Aspect ratio (H:V)	5:4
Resolution	5 MP (2560 x 2048)
Pixel pitch	0.165 mm
Color imaging	No
Gray imaging	Yes
Number of grayscales (LUT in/LUT out)	1024 gray levels (10/12)
Viewing angle (H, V)	170°
Uniform Luminance Technology (ULT-LED)	Yes
Ambient Light Compensation (ALC)	No
Backlight Output Stabilization (BLOS)	Yes
Front sensor	Yes
Maximum luminance	1020 cd/m² typical
DICOM calibrated luminance	500 cd/m²
Contrast ratio	1200:1 typical
Response time (Tr + Tf)	25 ms typical
Scanning frequency (H; V)	15-129 kHz; 24-100 Hz
Housing color	Black / White
Video input signals	DVI-D Dual Link / DisplayPort
Video inout terminals	N/A
USB ports	1 upstream, 2 downstream
USB standard	2.0
Power requirements (nominal)	100-240V
Power consumption (nominal)	43W
Power save mode	Yes
Power management	DVI-DMPM
Dot clock	280 Mhz
OSD languages	English, German, French, Dutch, Spanish, Italian, Portugese, Polish, Russian, Swedish, Chinese (simplified), Japanese, Korean, Arabic
Dimensions with stand (W x H x D)	Portrait: (w x hmax x d) 407 x 623 x 235 mm (w x hmin x d) 407 x 523 x 235 mm Landscape: (w x hmax x d) 493.5 x 579 x 235 mm (w x hmin x d) 493.5 x 479 x 235 mm
Dimensions w/o stand (W x H x D)	407 x 493.5 x 84 mm
Dimensions packaged (W x H x D)	676 x 565 x 317 mm
Net weight with stand	13.25 kg
Net weight w/o stand	8.23 kg
Net weight packaged with stand	19.61 kg
Net weight packaged w/o stand	N/A
Height adjustment range	100 mm
Tilt	-5° / +25°
Swivel	-30° / +30°
Pivot hardware	90°

Product specifications	Nio 5MP LED (MDNG-5221)
Mounting standard	VESA (100 mm)
Screen protection	Protective, non-reflective glass cover
Recommended modalities	Radiology, Mammography
Certifications	CE0120 (MDD 93/42/EEC; A1:2007/47/EC class IIb product), CE - 2004/108/EC, CE - 93/42/EEC; A1:2007/47/EC class II b, IEC 60950-1:2005 + A1:2009 (2ND EDITION), IEC 60601-1:2005 + A1:2012, ANSI/AAMI ES 60601-1:2005 + C1:2009 + A1:2012, CAN/CSAC22.2 No. 60601-1-08:2008, DEMKO - EN 60601-1:2006, EN 60601-1-2:2007, CCC - GB9254-2008 + GB4943.1-2011 + GB17625.1-2003, KC, VCCI, FCC class B, ICES-001 Level B, FDA 510(k), RoHS
Supplied accessories	User Guide Quick Installation Sheet Video cables (1 x DVI Dual Link, 1 x DisplayPort) Main cables (UK, European (CEBEC/KEMA), USA (UL/CSA; adaptor plug NEMA 5-15P), Chinese (CCC)) USB 2.0 cable External power supply
Optional accessories	None
QA software	MediCal QAWeb
Units per pallet	4 per layer
Pallet dimensions (W x H)	80 cm x 120 cm
Warranty	5 years
Operating temperature	0°C to 40°C (15°C to 30°C within specs)
Storage temperature	-20°C to 60°C
Operating humidity	8% - 80% (non-condensing)
Storage humidity	5% - 95% (non-condensing)
Operating altitude	2000 m

Last updated: 24 jul 2015