Nio 5MP LED (MDNG-5221)

5MP diagnostic grayscale display system



- Grayscale medical display with 2560 x 2048 resolution
- Barco LED technology to unveil the subtlest details
- Front sensor for ondemand image quality check
- Cleared for mammography



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.

- High-bright and power-efficient LED backlights
- Accurate grayscale rendering
- Front sensor and MediCal QAWeb for easy DICOM conformance
- High-performance 3D rendering with full 3D, OpenGL and DirectX support

BARCO

Screen tacknology Dual domain PS, Normally Black Active screen size (diagonal) 541 mm (0.1.3) Active screen size (diagonal) 548 s.75.5 mm (BB1'x 14.77) Aspect ratis (M V) 54 Recolution 5 MP (Definit x 14.77) Angect ratis (M V) 5.4 Recolution 5 MP (Definit x 14.77) Angect ratis (M V) 5.4 Recolution 5 MP (Definit x 14.77) Angect ratis (M V) 5.4 Recolution 5 MP (Definit x 14.77) Angert ratis (M V) 5.4 Recolution 0.16 Uniformity correction U.1 Anibient light presets Yes, reading room scleation Font scoor Yes Maximum luminance 5020 colm ⁻¹ DiCOM calibrated	PRODUCT SPECIFICATIONS	NIO 5MP LED (MDNG-5221)
Active screen size 04 × V1 459 8t x 375.3 mm (18.11 × 14.77) Appect atio (14.V) 5.4 Resolution 5 MP (2560 x 2046 pixels) Parkel pitch 0.165 mm Gray imaging Yes Bit depth 10 bit Unformity correction ULT Ambient light presets Yes, reading room selection Front ensor Yes Maximum luminance 1020 cs/m² DICOM calibrated luminance 606 cs/m² Contrast ratio (panel typical) 120 n Response time (ff + Tfl/21 (typical) 12 s ms Housing color RA1.9003 / RA1.9004 Video input signals DVI Dill Spotfert Dill bit Signals DVI Dill bit Signals Signals DVI Signals Signals DVI Signals Bit Signals DVI Signals DVI Dipapifert Dipapifert Signals Appect Signals Difference Signals Appect Signals	Screen technology	Dual domain IPS, Normally Black
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Resolution5 MP (200 x 2048 pixels)Pixel pitch0.165 mmGray imgingYesBit depth10 bitUniformity correctionULTAmbient light presetsYes, reading room selectionFront sensorYesMaximum luminance1.200 cd/m²DCOM calibrated luminance6.00 cd/m²Contrast ratio (panel typical)12:00 1Response time (IT + TII/2) (typical)12:5 msHousing colorRAL 90:37 / RAL 90:04Video input signalsDVI DisplayForsUSB ports3: USB 2:0 colornitionPower rating2:4 VICC, 4:A:5 VICC, 0:5 APower rating2:4 VICC, 4:A:5 VICC, 0:5 APower rosumption4:5 W (hominal) - 0:5 N (hominal) - 0:	Active screen size (H x V)	459.8 x 375.3 mm (18.1" x 14.77")
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DICOM calibrated luminance600 cd/m²Contrast ratio (panel typical)120.1Response time (ITr + Tf)/2) (typical)12.5 msHousing colorRAL 9003 / RAL 9004Video input signalsDVI DisplayPortUSB ports12.5 USB 2.0 upstream (endpoint) 3x USB 2.0 downstreamPower rating24 VDC, 4.1.5 VDC, 0.5 APower requirementsThis device shall only be powered by the following medical approved power supply: Sinpro, type CPUI10-201 Ratings marked on the medical power supply.Power consumption43 W (nominal) < 0.5 W (theorate) < 0.5 W (theorate) < 0.5 W (theorate) < 0.5 W (theorate) < 0.5 S and Dimensions with stand (W x H x D)407 x 494 x 84 mmDimensions with stand13.25 kgNet weight who stand8.25 kgNet weight who stand8.25 kgNet weight who stand8.25 kgNet weight who stand19.61 kg (without optional accessories)Tit-10° to 4.30°Swivel-45° to +45°Pivot0° to 90°Height adjustment range100 mmMounting standardVESA (000 mm)	Front sensor	Yes
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Swivel-45° to +45°Pivot0° to 90°Height adjustment range100 mmMounting standardVESA (100 mm)	Net weight packaged	19.61 kg (without optional accessories)
Pivot 0° to 90° Height adjustment range 100 mm Mounting standard VESA (100 mm)	Tilt	-10° to +30°
Height adjustment range 100 mm Mounting standard VESA (100 mm)	Swivel	-45° to +45°
Mounting standard VESA (100 mm)	Pivot	0° to 90°
	Height adjustment range	100 mm
Screen protection Protective, anti-reflective glass cover	Mounting standard	VESA (100 mm)
	Screen protection	Protective, anti-reflective glass cover

Recommended modalities All digital images, including digital mammography Certifications FDA 510(K) K133984 for General Radiology CE1639 (Medical Device Class IIb) CCC (China), KC (Korea), PSE (Japan), Inmetro (Brazil), BIS (India), EAC (Russia, Kazakhstan, Br Armenia and Kyrgyzstan) Safety specific: IEC 60950-1:2005 + A1:2009 EN 60950-1:2005 + A1:2009 + A1:2009 + A1:2011 + A2:2013 IEC 60950-1:2005 + A1:2012 + A1:2012 EN 60601-1:2005 + A1:2012 + A1:2012 EN 60601-1:2005 + A1:2014 ANSI/AAM ES 60601-1:2005 + R1:2012 CAN/CSA C222 No. 60601-1:14 EM specific: IEC 60901-1-2:2015 (ed4) FCC part IS Class B ICCF-001 Level B VCCI (Japan) Environmental: China Energy Label, EU RoHS, China RoHS, REACH, Canada Health, WEEE, Packaging Direct Supplied accessories User guide Documentation disc Video cable (1 x DisplayPort) USB 2.0 cable Mains cables (UK, European (CEBEC/KEMA), USA (UL/CSA; adaptor plug NEMA5-15P), Chines External power supply	
CE1639 (Medical Device Class IIb) CCC (China), KC (Korea), PSE (Japan), Inmetro (Brazil), BIS (India), EAC (Russia, Kazakhstan, Bi Armenia and Kyrgyzstan) Safety specific: IEC 60950-1:2006 + A1:2019 + A1:2009 + A12:2011 + A2:2013 IEC 60601-1:2005 + A1:2012 EN 60601-1:2005 + A1:2012 EN 60601-1:2005 + A1:2013 + A12:2014 ANSI/AAMI ES 60601-1:2005 + R1:2012 CAN/CSA C22.2 No. 60601-1:14 EMI specific: IEC 60601-1-2:2014 (ed4) EN 60601-1-2:2015 (ed4) FCC part 15 Class B ICES-001 Level B VCCI (Japan) Environmental: China Energy Label, EU RoHS, China RoHS, REACH, Canada Health, WEEE, Packaging Direct Supplied accessories User guide Documentation disc Video cable (1 x DisplayPort) USB 2.0 cable Mains cables (UK, European (CEBEC/KEMA), USA (UL/CSA; adaptor plug NEMA5-15P), Chinese	
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Documentation disc Video cable (1 x DisplayPort) USB 2.0 cable Mains cables (UK, European (CEBEC/KEMA), USA (UL/CSA; adaptor plug NEMA5-15P), Chines	e
External power supply	(CCC))
Optional accessories Graphics board	
QA software QAWeb	
Warranty 5 years, including 45000 hrs backlight warranty	
Operating temperature0 °C to 40 °C (15 °C to 30 °C within specs)	
Storage temperature -20 °C to 60 °C	
Operating humidity 8% to 80% (non-condensing)	
Storage humidity 5% to 85% (non-condensing)	
Operating pressure 50 kPa minimum	
Storage pressure 50 to 106 kPa	

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Technical specifications are subject to change without prior notice. Please check www.barco.com for the latest information.

BARCO