

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 on-demand 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 QAWeb Enterprise 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 QAWeb Enterprise for easy DICOM conformance
- High-performance 3D rendering with full 3D, OpenGL and DirectX support

TECHNISCHE SPECIFICATIES**NIO 5MP LED (MDNG-5221)**

Schermt technologie	Dual domain IPS, Normally Black
Actief schermformaat (diagonaal)	541 mm (21.3")
Formaat actief scherm (H x V)	459.8 x 375.3 mm (18.1" x 14.77")
Beeldverhouding (H:V)	5:4
Resolutie	5 MP (2560 x 2048 pixels)
Pixelpitch	0.165 mm
Grijsbeeldvorming	Yes
Bit depth	10 bit
Kijkhoek (H, V)	178°
Uniformity correction	ULT
Voorgeprogrammeerde instellingen voor omgevingslicht	Yes, reading room selection
Voorsensor	Yes
Maximale luminantie	1020 cd/m ²
DICOM-gekalibreerde luminescentie	600 cd/m ²
Contrastverhouding (paneel standaard)	1200:1
Reactietijd ((stijgtijd + valtijd)/2) (standaard)	12.5 ms
Kleur behuizing	RAL 9003 / RAL 9004
Video-ingangssignalen	DVI DisplayPort
USB-poorten	1x USB 2.0 upstream (endpoint) 3x USB 2.0 downstream
Power rating	24 VDC, 4 A; 5 VDC, 0.5 A
Voedingsvereisten	This device shall only be powered by the following medical approved power supply: Sinpro, type CPU110-201 Ratings marked on the medical power supply: ■ Input rating: 100–240 VAC, 1.5–0.6 A, 47–63 HZ ■ Output rating: 24 VDC, 4.58 A; 5 VDC, 0.5 A
Energieverbruik	43 W (nominal) < 0.5 W (hibernate) < 0.5 W (standby)
Afmetingen met standaard (B x H x D)	Portrait: 407 x 523~623 x 235 mm Landscape: 493.5 x 479~579 x 235 mm
Afmetingen zonder standaard (B x H x D)	407 x 494 x 84 mm
Afmetingen verpakt (B x H x D)	676 x 565 x 317 mm
Nettogewicht met standaard	13.25 kg
Nettogewicht zonder standaard	8.25 kg
Nettogewicht verpakt	19.61 kg (without optional accessories)
Kanteling	-10° to +30°
Zwenking	-45° to +45°
Roteren	0° to 90°
Hoogteregebereik	100 mm
Montagestandaard	VESA (100 mm)

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Bescherming van het scherm	Protective, anti-reflective glass cover
Aanbevolen procedures	All digital images, including digital mammography
Certificeringen	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, Belarus, Armenia and Kyrgyzstan) Safety specific: IEC 60950-1:2005 + A1:2009 EN 60950-1:2006 + A1:2010 + A11:2009 + A12:2011 + A2:2013 IEC 60601-1:2005 + A1:2012 EN 60601-1:2006 + 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 Directive
Meegeleverde accessoires	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 (CCC)) External power supply
Optionele accessoires	Graphics board
Software voor kwaliteitsgarantie	QAWeb
Garantie	5 years, including 45000 hrs backlight warranty
Bedrijfstemperatuur	0 °C to 40 °C (15 °C to 30 °C within specs)
Opslagtemperatuur	-20 °C to 60 °C
Vochtigheid in bedrijf	8% to 80% (non-condensing)
Vochtigheid bij opslag	5% to 85% (non-condensing)
Bedrijfsdruk	50 kPa minimum
Opslagdruk	50 to 106 kPa

Last updated: 24 Jun 2022

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