

Nio Color 3MP (MDNC-3421)

3MP high-bright color display



- **Best image quality on the market for 3MP color**
- **Automated Quality Assurance and calibration for stable DICOM images**
- **Fully-tested system solution from a single source, for ultimate peace of mind**

Nio Color 3MP is a 3-megapixel high-bright color display system with LED backlights, providing excellent image quality for confident diagnoses. Its exceptional brightness (calibrated at 500 cd/m²) helps you discern even the tiniest detail - even after many years of use.

The best 3MP color solution on the market

The new Nio Color 3MP offers the best image quality in the market for a 3MP color solution. Its high brightness and high contrast ratio enable you to unveil even the subtlest details. With the integrated smart features, you can easily take control and improve your productivity. SpotView™, for example, allows you to focus on an area of interest to unveil even more details. And with DimView™, any auxiliary displays can be automatically dimmed. The Nio Color 3MP is also an excellent solution for radiologists who want to angle their desktop: it lets you choose your preferred viewing angle and offers highly ergonomic display configuration.

Stable image quality, durable investment

Using Barco's integrated front sensor, the Nio Color 3MP works perfectly with Barco's QAWeb Enterprise solution for automated Quality Assurance and calibration. QAWeb Enterprise guarantees stable DICOM images throughout the display's lifetime. By default, Barco displays are equipped with a protective cover to safeguard your investment. Thanks to the high-performance LED backlights, the Nio Color 3MP requires less power, even at higher calibrated luminance. This has a positive impact on both maintenance and operational costs.

Ultimate peace of mind

Barco is the only company that provides complete system solutions, from display and controllers to workflow tools and calibration via QAWeb Enterprise. All



Barco is the only company that provides complete system solutions, from display and controllers to workflow tools and calibration via QAWeb Enterprise. All components are covered by our full 5-year warranty. At product release, Barco extensively tests the displays compatibility with all major PACS applications.

Ensuring diagnostic confidence with MDR Class IIa

Our radiology displays are MDR-certified as Class IIa. Their product information has been reviewed and cleared by independent medical and technical experts, and is audited yearly. In other words, we ensure diagnostic confidence and peace of mind for our users.

Please consult your Barco representative or distributor in your country or territory to confirm availability. A reference to any product or service on this site does not imply that such product is or will be available in your location.

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

Product specificaties**NIO COLOR 3MP (MDNC-3421)****General specifications**

Schermt technologie	IPS-TFT Color LCD
Actief schermformaat (diagonaal)	540 mm (21.3")
Formaat actief scherm (H x V)	432 x 324 mm (17.0 x 12.8")
Beeldverhouding (H:V)	4:3
Resolutie	3MP (2048 x 1536 pixels)
Pixelpitch	0.2109 mm
Beeldkleur	Yes
Grijsbeeldvorming	Yes
Bit depth	30 bit
Kijkhoek (H, V)	178°
Uniformity correction	ULT
Voorgeprogrammeerde instellingen voor omgevingslicht	Yes, reading room selection
Backlight Output Stabilization Technology (BLOS)	No
Voorsensor	Yes
Maximale luminantie (paneel standaard)	900 cd/m ²
DICOM-gekalibreerde luminescentie	500 cd/m ²
Contrastverhouding (paneel standaard)	1400:1
Reactietijd (stijgtijd + valtijd) (standaard)	20 ms
Kleur behuizing	RAL 9003 / RAL 9004
Video-ingangssignalen	DVI-D Dual Link DisplayPort
USB-poorten	1x USB 2.0 upstream (endpoint) 3x USB 2.0 downstream
Power rating	24 VDC, 4 A
Voedingsvereisten	This device shall only be powered by the following medical approved power supply: Sinpro Electronics, type CPU110-201 Ratings marked on the medical power supply: <ul style="list-style-type: none">■ Input rating: 100–240 VAC, 1.5 A, 47–63 Hz■ Output rating: 24 VDC, 4.58 A
Energieverbruik	50 W (nominal) < 0.5 W (standby)
Afmetingen met standaard (B x H x D)	Portrait: 378 x 528~628 x 235 mm Landscape: 491 x 472~572 x 235 mm
Afmetingen zonder standaard (B x H x D)	Portrait: 378 x 491 x 84 mm Landscape: 491 x 378 x 84 mm
Afmetingen verpakt (B x H x D)	500 x 280 x 670 mm
Nettogewicht met standaard	With protective cover: 11.2 kg Without protective cover: 10.7 kg
Nettogewicht zonder standaard	With protective cover: 6.2 kg Without protective cover: 5.7 kg

Product specificaties**NIO COLOR 3MP (MDNC-3421)**

Nettogewicht verpakt	With protective cover: 15.7 kg (without accessories) Without protective cover: 15.2 kg (without accessories)
Kanteling	-10° to +30°
Zwenking	-45° to +45°
Roteren	90°
Hoogteregebereik	100 mm
Montagestandaard	VESA (100 mm)
Bescherming van het scherm	Protective, anti-reflective glass cover (optional)
Aanbevolen procedures	All digital images, except digital mammography
Certificeringen	CE0123 (Medical Device) FDA 510(K) K170837 for General Radiology CCC (China), KC (Korea), PSE (Japan), INMETRO (Brazil -Product Numbers: K9300340B, K9300341B, K9300342B), 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 System sheet Video cable (1 x DisplayPort) Mains cable(s) USB 2.0 cable External power supply
Optionele accessoires	Graphics board
Software voor kwaliteitsgarantie	QAWeb
Garantie	5 years, including 20000 hrs backlight warranty
Bedrijfstemperatuur	0 °C to 40 °C (15 °C to 35 °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	70 kPa minimum
Opslagdruk	50 to 106 kPa

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