

Nio Color 5MP (MDNC-6121)

5.8 MP high-bright color display



- **Designed for radiology and mammography**
- **High-bright, steady colors and grays**
- **Front sensor and MediCal QAWeb for always-on compliance**

Nio Color 5MP offers super bright, color calibrated and the most detailed medical images, including mammography and breast tomosynthesis. It's how we help you improve your workflow and make more confident diagnoses.

No detail goes unnoticed

Barco's Nio Color 5MP renders excellent color and grayscale images used in general radiology as well 2D and 3D mammography. Its high brightness and high contrast ratio help you discern the most subtle image details for an accurate diagnosis. And the additional resolution allows you to fit more of the image on the screen for reduced panning and zooming.

Using Barco's integrated front sensor, the Nio Color 5MP works perfectly together with Barco's online MediCal QAWeb solution for automated Quality Assurance and calibration. QAWeb guarantees stable DICOM grayscale images and, with SteadyColor, consistent calibrated color images throughout the display's lifetime.

Work smarter

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™, auxiliary displays can be dimmed automatically so they don't interfere with your reading experience.

The Nio Color 5MP is also an excellent solution for radiologists who want to angle their desktop: it lets you choose your preferred viewing angle and offers a highly ergonomic display configuration. It's also possible to switch between Clearbase and Bluebase viewing modes on-the-fly. Whether to suit the image type or to change reading preferences, you decide which color you want, and



when.

Ultimate peace of mind

Thanks to the high-performance LED backlights, the Nio Color 5MP has a positive impact on both maintenance and operational costs. By default, Barco displays are equipped with an integrated glass cover to safeguard your investment.

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

PRODUCT SPECIFICATIONS	NIO COLOR 5MP (MDNC-6121)
Screen technology	LCD
Active screen size (diagonal)	541 mm (21.3")
Active screen size (H x V)	324.45 x 432.6 mm (12.77" x 17")
Aspect ratio (H:V)	3:4 for each display in portrait mode, 3:2 overall
Resolution	5.8 MP (2100 x 2800 pixels)
Pixel pitch	0.1545 mm
Color imaging	Yes
Gray imaging	Yes
Bit depth	30 bit
Viewing angle (H, V)	178°
Uniformity correction	ULT
SteadyColor Calibration	Yes, when used as system with MXRT display controller
SteadyGray	Yes
Ambient Light Compensation (ALC)	Yes
Front sensor	Yes
Maximum luminance	1000 cd/m ²
DICOM calibrated luminance	600 cd/m ²
Contrast ratio (panel typical)	1400:1
Response time ((Tr + Tf)/2) (typical)	12.5 ms
Housing color	RAL 9003 / RAL 9004
Video input signals	DVI-D Dual Link (2x) DisplayPort (2x)
USB ports	1x USB 2.0 upstream (endpoint) 2x USB 2.0 downstream
Power rating	24 VDC, 5 A; 5 VDC, 0.1 A
Power requirements	<p>This device shall only be powered by the following medical approved power supplies:</p> <p>Adapter Technology, type CMD160-P240 Ratings marked on the medical power supply:</p> <ul style="list-style-type: none"> ■ Input rating: 100~240 VAC, 1.9~0.8 A, 50/60 HZ ■ Output rating: 24 VDC, 6.3 A; 5 VDC, 0.5 A <p>Efore (Roal Electronics), type RHPS390A Ratings marked on the medical power supply:</p> <ul style="list-style-type: none"> ■ Input rating: 100~240 VAC, 3.0 A, 50/60 HZ ■ Output rating: 24 VDC, 8.33 A; 5 VDC, 0.1 A
Power consumption	60 W (nominal) < 0.5 W (standby)
Dimensions with stand (W x H x D)	Portrait: 378 x 528~628 x 235 mm Landscape: 491 x 472~572 x 235 mm
Dimensions w/o stand (W x H x D)	Portrait: 378 x 491 x 84 mm Landscape: 491 x 378 x 84 mm
Dimensions packaged (W x H x D)	500 x 280 x 670 mm
Net weight with stand	With protective cover: 11.6 kg Without protective cover: 10.2 kg
Net weight w/o stand	With protective cover: 6.6 kg Without protective cover: 5.2 kg

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Net weight packaged	With protective cover: 17.0 kg (without optional accessories) Without protective cover: 15.7 kg (without optional accessories)
Tilt	-10° to +30°
Swivel	-45° to +45°
Pivot	90°
Height adjustment range	100 mm
Mounting standard	VESA (100 mm)
Screen protection	Protective, anti-reflective glass cover (optional)
Recommended modalities	All digital images, including digital mammography
Certifications	<p>FDA 510(K) K170476 for General Radiology CE1639 (MDD 93/42/EEC; A1:2007/47/EC class IIb product) CCC (China), KC (Korea), PSE (Japan), Inmetro (Brazil), BIS (India), EAC (Russia, Kazakhstan, Belarus, Armenia and Kyrgyzstan)</p> <p>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</p> <p>EMI specific: IEC 60601-1-2: 2014 (ed.4) EN 60601-1-2:2015 (ed.4) FCC part 15 Class B ICES-001 Level B VCCI (Japan)</p> <p>Environmental: China Energy Label, EU RoHS, China RoHS, REACH, Canada Health, WEEE, Packaging Directive</p>
Supplied accessories	User guide Documentation disc System disc Video cable (1 x DisplayPort) Mains cable(s) USB 2.0 cable External power supply
Optional accessories	Graphics board
QA software	MediCal QAWeb
Warranty	5 years, including 40000 hrs backlight warranty
Operating temperature	0 °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	70 kPa minimum
Storage pressure	50 to 106 kPa

Last updated: 19 Aug 2020

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