

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 (500 cd/m²) 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 | 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 | 500 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 | 11.6 kg |
| Net weight w/o stand | 6.6 kg |
| Net weight packaged | 17.0 kg (without optional accessories) |

PRODUCT SPECIFICATIONS**NIO COLOR 5MP (MDNC-6121)**

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|-------------------------|--|
| 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 |
| Recommended modalities | All digital images, including digital mammography |
| Certifications | CE0120 (MDD 93/42/EEC; A1:2007/47/EC class IIb product), CE 2014/30/EU, CE93/42/EEC; A1:2007/47/EC class II b, IEC 60601-1:2005 + C1:2006 + C2:2007 + A1:2012, ANSI/AAMI ES60601-1:2005 + C1:2009 + R1:2012, CAN/CSAC22.2No. 60601-1:2014, DEMKO EN60601-1:2006 + A11:2011 + A12:2014 + A1: 2013, EN 60601-1-2:2007, FCC class B, ICES-001 Level B, FDA 510(k), RoHS |
| Supplied accessories | User guide Documentation disc System disc Video cable (1 x DisplayPort) Mains cables (UK, European (CEBEC/KEMA), USA (UL/CSA; adaptor plug NEMA515P), Chinese (CCC)) 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 35 °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: 21 Jan 2018

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