

# 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/m<sup>2</sup>) 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 components are covered by our full 5-year warranty. At product release, Barco extensively tests the displays compatibility with all major PACS applications.

- 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

**TECHNISCHE SPECIFICATIES****NIO COLOR 3MP (MDNC-3421)**

|  |  |
|--|--|
| 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 <sup>2</sup>  |
| DICOM-gekalibreerde luminescentie                    | 500 cd/m <sup>2</sup>  |
| Contrastverhouding (paneel standaard)                | 1400:1   |
| Reactietijd (stijgtijd + valtijd) (standaard)        | 20 ms  |
| Kleur behuizing                                      | RAL 9003 / RAL 9004  |
| Video-ingangssignalen                                | DVI-D Dual Link<br>DisplayPort   |
| USB-poorten  | 1x USB 2.0 upstream (endpoint)<br>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:<br><br>Sinpro Electronics, type CPU110-201<br>Ratings marked on the medical power supply:<br>■ Input rating: 100–240 VAC, 1.5 A, 47–63 Hz<br>■ Output rating: 24 VDC, 4.58 A |
| Energieverbruik                                      | 50 W (nominal)<br>< 0.5 W (standby)  |
| Afmetingen met standaard (B x H x D)                 | Portrait: 378 x 528~628 x 235 mm<br>Landscape: 491 x 472~572 x 235 mm  |
| Afmetingen zonder standaard (B x H x D)              | Portrait: 378 x 491 x 84 mm<br>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<br>Without protective cover: 10.7 kg  |
| Nettogewicht zonder standaard                        | With protective cover: 6.2 kg<br>Without protective cover: 5.7 kg  |
| Nettogewicht verpakt                                 | With protective cover: 15.7 kg (without accessories)<br>Without protective cover: 15.2 kg (without accessories)  |
| Kanteling  | -10° to +30°   |
| Zwenking   | -45° to +45°   |

**TECHNISCHE SPECIFICATIES****NIO COLOR 3MP (MDNC-3421)**

|                                  |  |
|----------------------------------|--|
| Roteren                          | 90°  |
| Hoogterebereik                   | 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)<br>FDA 510(K) K170837 for General Radiology<br>CCC (China), KC (Korea), PSE (Japan), INMETRO (Brazil -Product Numbers: K9300340B, K9300341B, K9300342B), BIS (India), EAC (Russia, Kazakhstan, Belarus, Armenia and Kyrgyzstan)<br><br>Safety specific:<br>IEC 60950-1:2005 + A1:2009<br>EN 60950-1:2006 + A1:2010 + A11:2009 + A12:2011 + A2:2013<br>IEC 60601-1:2005 + A1:2012<br>EN 60601-1:2006 + A1:2013 + A12:2014<br>ANSI/AAMI ES 60601-1:2005 + R1:2012<br>CAN/CSA C22.2 No. 60601-1:14<br><br>EMI specific:<br>IEC 60601-1-2:2014 (ed4)<br>EN 60601-1-2:2015 (ed4)<br>FCC part 15 Class B<br>ICES-001 Level B<br>VCCI (Japan)<br><br>Environmental:<br>China Energy Label, EU RoHS, China RoHS, REACH, Canada Health, WEEE, Packaging Directive |
| Meegeleverde accessoires         | User guide<br>Documentation disc<br>System sheet<br>Video cable (1 x DisplayPort)<br>Mains cable(s)<br>USB 2.0 cable<br>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  |

**Last updated: 06 Feb 2023**Technical specifications are subject to change without prior notice. Please check [www.barco.com](http://www.barco.com) for the latest information.