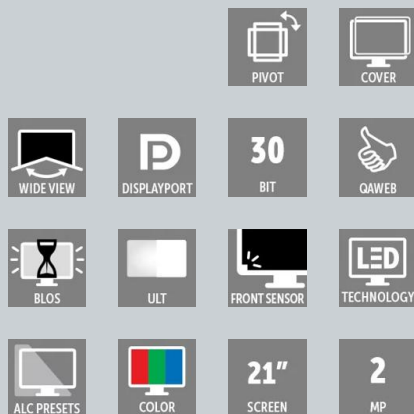


# Nio Color 2MP HE (MDNC-2221 HE)

2MP high-bright color diagnostic display system for home working and private practices



Radiologists require a diagnostic display set-up when they are working from home. Barco's Nio Color 2MP HE has everything it takes to deliver productivity while ensuring diagnostic confidence from the home office. Your benefits? Faster reading with more DICOM JNDs, no manual compliance or calibration (calibration, QA, and compliance reporting are automated through our secure, cloud-based MediCal QAWeb service), and a lifetime that is 10 times longer than that of a commercial display thanks to the high-quality LED backlights.

## Image stability and consistency at home

Thanks to its automated DICOM calibration and internal image stabilization capabilities -including a front sensor -the Nio Color 2MP HE is fully compliant with the latest DIN standards. The result? Consistent, stable and bright images at all times and in all lighting conditions, providing maximum diagnostic confidence.

## An excellent investment

Studies have shown that diagnostic display systems enable radiologists to come to a correct interpretation more quickly and with more certainty. When used at home, the productivity level rises even further. Combined with the benefits of a centrally managed, fully integrated and automated DICOM QA and reporting - removing the need for manual compliance and calibration -Nio Color 2MP HE ensures return on investment after only one year of use.

## Barco's home working package includes:

A single-head or a dual-head color-matched Nio Color 2MP HE, bundled with Barco's MediCal QAWeb Premium and LCD sensor.

- Complete, plug-and-play bundle including display, MediCal QAWeb Premium and Barco LCD sensor
- High-bright and power-efficient LED backlights
- Accurate grayscale and color rendering for various applications
- Automated DICOM calibration with front sensor and internal image stabilization technology
- Sleek, modern design to complement the home office

**Product specificaties****NIO COLOR 2MP HE (MDNC-2221 HE)****General specifications**

|                                                      |                                                                                                                                                                                                                                                        |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Scherntechnologie                                    | IPS-Pro                                                                                                                                                                                                                                                |
| 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                                            | 2MP (1600 x 1200 pixels)                                                                                                                                                                                                                               |
| Pixelpitch                                           | 0.27 mm                                                                                                                                                                                                                                                |
| Beeldkleur                                           | Yes                                                                                                                                                                                                                                                    |
| Grijsbeeldvorming                                    | Yes                                                                                                                                                                                                                                                    |
| Bit depth                                            | 30 bit                                                                                                                                                                                                                                                 |
| Kijkhoek (H, V)                                      | 178°                                                                                                                                                                                                                                                   |
| Uniformity correction                                | ULT                                                                                                                                                                                                                                                    |
| Voorgeprogrammeerde instellingen voor omgevingslicht | Yes, reading room selection                                                                                                                                                                                                                            |
| Ambient light sensor                                 | Yes                                                                                                                                                                                                                                                    |
| Backlight Output Stabilization Technology (BLOS)     | Yes                                                                                                                                                                                                                                                    |
| Voorsensor                                           | Yes                                                                                                                                                                                                                                                    |
| Maximale luminantie (paneel standaard)               | 440 cd/m <sup>2</sup>                                                                                                                                                                                                                                  |
| DICOM-gekalibreerde luminescentie                    | 300 cd/m <sup>2</sup>                                                                                                                                                                                                                                  |
| Contrastverhouding (paneel standaard)                | 1400:1                                                                                                                                                                                                                                                 |
| Reactietijd ((stijgtijd + valtijd)/2) (standaard)    | 10 ms                                                                                                                                                                                                                                                  |
| Kleur behuizing                                      | RAL 9003 / RAL 9004                                                                                                                                                                                                                                    |
| Video-ingangssignalen                                | 1x DVI<br>1x DisplayPort                                                                                                                                                                                                                               |
| USB-poorten                                          | 1x USB 2.0 upstream (endpoint)<br>2x USB 2.0 downstream                                                                                                                                                                                                |
| Power rating                                         | 24 VDC, 3.75 A                                                                                                                                                                                                                                         |
| Voedingsvereisten                                    | This device shall only be powered by the following medical approved power supply:<br>Bridgepower, type JMW190KB2400F11<br>Ratings marked on the medical power supply:<br>■ Input rating: 100–240 VAC, 2 A, 50–60 Hz<br>■ Output rating: 24 VDC, 3.75 A |
| Energieverbruik                                      | 36 W (nominal)<br>< 1 W (hibernate)<br>< 1 W (standby)                                                                                                                                                                                                 |
| Afmetingen met standaard (B x H x D)                 | Portrait: 378 x 525~625 x 235 mm<br>Landscape: 491 x 466~566 x 235 mm                                                                                                                                                                                  |
| Afmetingen zonder standaard (B x H x D)              | Portrait: 378 x 491 x 83 mm<br>Landscape: 491 x 378 x 83 mm                                                                                                                                                                                            |
| Afmetingen verpakt (B x H x D)                       | 655 x 388 x 495 mm                                                                                                                                                                                                                                     |
| Nettogewicht met standaard                           | 11.3 kg                                                                                                                                                                                                                                                |
| Nettogewicht zonder standaard                        | 6.3 kg                                                                                                                                                                                                                                                 |

**Product specificaties**

**NIO COLOR 2MP HE (MDNC-2221 HE)**

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nettogewicht verpakt             | 15.5 kg (without accessories)                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Kanteling                        | -5° to +25°                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Zwenking                         | -30° to +30°                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Roteren                          | 90°                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Hoogteregelbereik                | 100 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Montagestandaard                 | VESA (100 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Aanbevolen procedures            | All digital images, except digital mammography                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Certificeringen                  | CE1639 (MDD 93/42/EEC; A1:2007/47/EC class IIb product)<br>CE -2014/30/EU<br>CE -93/42/EEC; A1:2007/47/EC class II b<br>IEC 60601-1(ed.3); IEC 60601-1(ed.3 am1)<br>ANSI/AAMI ES60601-1(2005+C1:09+A2:10+A1:12)<br>CAN/CSA-C22.2 No. 60601-1(2014)<br>EN 60601-1-2:2015<br>EN 60601-1:2006/A11:2011/A12:2014; EN 60601-1:2006/A1:2013<br>CCC -GB9254-2008 + GB4943.1-2011 + GB17625.1-2012<br>KC<br>BIS<br>VCCI<br>FCC class B<br>ICES-001 Level B<br>FDA 510(k)<br>RoHS |
| Meegeleverde accessoires         | User guide<br>Documentation disc<br>System disc<br>Video cable<br>Mains cable(s)<br>USB cable<br>External power supply                                                                                                                                                                                                                                                                                                                                                   |
| Software voor kwaliteitsgarantie | MediCal QAWeb                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Garantie                         | 3 years, including 15000 hrs backlight warranty                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Bedrijfstemperatuur              | 0 °C to 35 °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                     | 70 kPa minimum                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Opslagdruk                       | 50 to 106 kPa                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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