

# Nio 3MP LED (MDNG-3220 CN)

3MP diagnostic grayscale display system



Nio 3MP LED is ideal for high-quality imaging of diagnostic grayscale modalities. This display system comes with LED backlights for higher brightness and a unique front-of-screen sensor for excellent image quality at all times. These and other innovative features make your image look the best it can.

## Confident reading

Equipped with high-bright LED backlights, Nio 3MP LED delivers excellent brightness and more shades of gray to detect subtle details more quickly. The unique front-of-screen sensor ensures you see consistent and precise images at all times for confident diagnoses.

## On-demand image quality checks

The front-of-screen sensor on Nio 3MP LED, which works seamlessly with Barco's online MediCal QAWeb solution for automated Quality Assurance and on-demand calibration, makes sure you are viewing perfect DICOM images.

## An excellent investment

Using energy-efficient LED backlights, Nio 3MP LED is as low in power consumption as it is high in brightness. Because it uses less power, the display produces less heat and requires less cooling, which impacts maintenance and operational costs. Additionally, the LED backlights offer a long lifetime -even at high brightness -providing an excellent return on your investment.

## A one-stop-shop solution

Barco medical displays include proprietary display controllers that are validated with the latest workstations and with all major PACS applications. They also include seamlessly integrated technologies and features to boost functionality and performance.

- With front-of-screen sensor & QA software
- LED backlights rendering more JNDs
- Lowest cost of ownership

**Product specificaties**

**NIO 3MP LED (MDNG-3220 CN)**

| General specifications                           |                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Schermt technologie                              | IPS                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Actief schermformaat (diagonaal)                 | 520 mm (20.8")                                                                                                                                                                                                                                                                                                                                                                                                           |
| Formaat actief scherm (H x V)                    | 318 x 424 mm (12.52" x 16.69")                                                                                                                                                                                                                                                                                                                                                                                           |
| Beeldverhouding (H:V)                            | 4:3                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Resolutie                                        | 3MP (2048 X 1536)                                                                                                                                                                                                                                                                                                                                                                                                        |
| Pixelpitch                                       | 0.207                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Beeldkleur                                       | No                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Grijsbeeldvorming                                | Yes                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Aantal grijswaarden (LUT in/LUT uit)             | 1024 gray levels (10/12)                                                                                                                                                                                                                                                                                                                                                                                                 |
| Kijkhoek (H, V)                                  | 176°                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Uniform Luminance Technology (ULT-LED)           | Yes                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Per Pixel Uniformity (PPU-LED)                   | No                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Omgevingslichtcompensatie (OLC)                  | No                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Backlight Output Stabilization Technology (BLOS) | Yes                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Voorsensor                                       | Yes                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Maximale luminantie                              | 1200 cd/m <sup>2</sup> typical                                                                                                                                                                                                                                                                                                                                                                                           |
| DICOM-gekalibreerde luminantie (ULT uit)         | 500 cd/m <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                    |
| Contrastverhouding (ULT uit)                     | 1200 typical                                                                                                                                                                                                                                                                                                                                                                                                             |
| Reactietijd (stijgtijd + valtijd)                | 30 ms typical                                                                                                                                                                                                                                                                                                                                                                                                            |
| Scanfrequentie (H; V)                            | 15-129 kHz; 25-98 Hz                                                                                                                                                                                                                                                                                                                                                                                                     |
| Kleur behuizing                                  | Black / White                                                                                                                                                                                                                                                                                                                                                                                                            |
| Video-ingangssignalen                            | DVI-D Dual Link / DisplayPort                                                                                                                                                                                                                                                                                                                                                                                            |
| Video-uitgangssignalen                           | DisplayPort                                                                                                                                                                                                                                                                                                                                                                                                              |
| Video-in-/uit-contacten                          | NA                                                                                                                                                                                                                                                                                                                                                                                                                       |
| USB-poorten                                      | 1 upstream , 2 downstream                                                                                                                                                                                                                                                                                                                                                                                                |
| USB-standaard                                    | 2.0                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Voedingsvereisten (nominaal)                     | 100-240V                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Stroomverbruik (nominaal)                        | 30W                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Energiebesparingsmodus                           | Yes                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Energiebeheer                                    | DVI-DMPM                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Puntklok                                         | 280 MHz                                                                                                                                                                                                                                                                                                                                                                                                                  |
| OSD-talen                                        | English, German, French, Dutch, Spanish, Italian, Chinese (Simplified), Japanese, Korean                                                                                                                                                                                                                                                                                                                                 |
| Afmetingen met standaard (B x H x D)             | Portrait: (w x hmax x d): 378 x 628 x 235 mm. (w x hmin x d): 378 x 528 x 235 mm<br>Landscape: (w x hmax x d): 491 x 572 x 235 mm. (w x hmin x d): 491 x 472 x 235 mm                                                                                                                                                                                                                                                    |
| Afmetingen zonder standaard (B x H x D)          | 378 x 491 x 84 mm                                                                                                                                                                                                                                                                                                                                                                                                        |
| Afmetingen verpakt (B x H x D)                   | 495 x 388 x 655 mm                                                                                                                                                                                                                                                                                                                                                                                                       |
| Nettogewicht met standaard                       | 13 kg                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Nettogewicht zonder standaard                    | 8 kg                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Nettogewicht verpakt met standaard               | 17 kg                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Nettogewicht verpakt zonder standaard            | 12 kg                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Hoogtegebied                                     | 100 mm                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Kanteling                                        | -10° / +30°                                                                                                                                                                                                                                                                                                                                                                                                              |
| Zwenking                                         | -45° / +45°                                                                                                                                                                                                                                                                                                                                                                                                              |
| Roteren                                          | 90°                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Montagestandaard                                 | VESA (100 mm)                                                                                                                                                                                                                                                                                                                                                                                                            |
| Bescherming van het scherm                       | Protective, non-reflective glass cover                                                                                                                                                                                                                                                                                                                                                                                   |
| Aanbevolen procedures                            | CT, MR, US, DR, CR, NM, Film                                                                                                                                                                                                                                                                                                                                                                                             |
| Certificeringen                                  | GB9254-2008, GB4943.1-2011, GB17625.1-2012                                                                                                                                                                                                                                                                                                                                                                               |
| Meegeleverde accessoires                         | User Guide<br>Quick-Installation Sheet<br>Video cable (1 x DisplayPort)<br>Chinese power cable (CCC)<br>USB 2.0 cable<br>Adapters<br>(Optional Adapter : Manufacturer : EDAC POWER ELECTRONICS CO., LTD., Model: EA10681P-240; Input: 100-240 Vac, 50-60 Hz, 2.0 A; Output: +24Vdc, 2.5 A<br>Or manufacturer : BridgePower Corporation, Model: BPM060S24F09; Input: 100-240 Vac, 50-60 Hz, 1.5 A; Output: +24Vdc, 2.7 A) |
| Optionele accessoires                            | NA                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Software voor kwaliteitgarantie                  | MediCal QAWeb                                                                                                                                                                                                                                                                                                                                                                                                            |
| Aantal per pallet                                | NA                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Palletafmetingen (B x H)                         | NA                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Garantie                                         | 5 years                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Bedrijfstemperatuur                              | 0°C to 35°C (15°C to 30°C within specs)                                                                                                                                                                                                                                                                                                                                                                                  |
| Opslag -transporttemperatuur                     | -20°C to 60°C                                                                                                                                                                                                                                                                                                                                                                                                            |
| Vochtigheid in bedrijf                           | 8% -80% (non-condensing)                                                                                                                                                                                                                                                                                                                                                                                                 |
| Opslag -transportvochtigheid                     | 5% -85% (non-condensing)                                                                                                                                                                                                                                                                                                                                                                                                 |
| Bedrijfshoogte                                   | 2000 m                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Opslag -transportdruk                            | 7500 m                                                                                                                                                                                                                                                                                                                                                                                                                   |

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