

# Nio 5MP (MDNG-5121)

## 5 MegaPixel diagnostic grayscale display system



Nio 5MP (MDNG-5121 MA) is a flexible diagnostic display system with a resolution of 2048 x 2560. Thanks to its high luminance and contrast, Nio 5MP is a perfect solution for a wide range of medical imaging applications, such as X-ray, PACS, MRI, angiography, computed tomography and mammography on PACS.

### Long-term image confidence

Backlight Output Stabilization technology guarantees fast power-up and continuously stabilizes the luminance output of the LCD's backlight. This significantly improves the overall optical efficiency of the display system and provides long-term image stability.

### High-quality imaging

The Nio 5MP brings high brightness, exceptional crispness and an excellent viewing angle to your readings. Backlight Output Stabilization (BLOS) technology guarantees fast power-up and continuously stabilizes the luminance output of the LCD's backlight.

### Fully transparent calibration and QA

Barco's Nio 5MP is bundled with MediCal QAWeb for automated DICOM calibration, Quality Assurance, display asset management, problem solving and reporting, guaranteeing maximum diagnostic confidence and uptime of your PACS display systems.

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**The Nio 5MP display system includes:**

- A 5 MegaPixel flat panel display
- MediCal QAWeb software for automated calibration and Quality Assurance
- A high-speed, high-performance display controller: check the compatibility matrix

**Product specifications****Nio 5MP (MDNG-5121)**

|  |   |
|--|---|
| <b>Screen technology</b>                     | TFT AM LCD Dual Domain IPS  |
| <b>Active screen size (diagonal)</b>         | 541 mm (21.3")  |
| <b>Active screen size (H x V)</b>            | 422 x 338 mm (16.5 x 13.3")   |
| <b>Aspect ratio (H:V)</b>                    | 5:4   |
| <b>Resolution</b>                            | 5MP (2560 x 2048)   |
| <b>Pixel pitch</b>                           | 0.1650 mm   |
| <b>Active screen height</b>                  | 337.9 mm (13.3")  |
| <b>Color imaging</b>                         | No  |
| <b>Gray imaging</b>                          | Yes   |
| <b>Number of greyscale (LUT in/LUT out)</b>  | 10 bit  |
| <b>Viewing angle (H, V)</b>                  | 170°  |
| <b>Uniform Luminance Technology (ULT)</b>    | No  |
| <b>Per Pixel Uniformity (PPU)</b>            | No  |
| <b>Ambient Light Compensation (ALC)</b>      | No  |
| <b>Backlight Output Stabilization (BLOS)</b> | Yes   |
| <b>I-Guard</b>                               | No  |
| <b>Maximum luminance</b>                     | 700 cd/m <sup>2</sup>   |
| <b>DICOM calibrated luminance (ULT off)</b>  | 500 cd/m <sup>2</sup>   |
| <b>Contrast ratio (ULT off)</b>              | 800:1   |
| <b>Response time (Tr + Tf)</b>               | 25 ms   |
| <b>Video input signals</b>                   | DVI-D Dual Link   |
| <b>USB ports</b>                             | 1 upstream (endpoint), 2 downstream   |
| <b>USB standard</b>                          | 1.1   |
| <b>Power consumption (nominal)</b>           | 95W   |
| <b>Power save mode</b>                       | Yes   |
| <b>Dimensions with stand (W x H x D)</b>     | Portrait: 382 x 577~637 x 249 mm<br>Landscape: 488 x 472~532 x 249 mm   |
| <b>Dimensions w/o stand (W x H x D)</b>      | Portrait: 382x 488 x 114 mm<br>Landscape: 488 x 382 x 114 mm  |
| <b>Net weight with stand</b>                 | 13.5 kg   |
| <b>Mounting standard</b>                     | VESA (100 mm)   |
| <b>Screen protection</b>                     | Protective, non-reflective PMMA cover   |
| <b>Recommended modalities</b>                | CT, MR, US, DR, CR, NM, Film  |
| <b>Certifications</b>                        | CE, UL60601, CSA C22.2 No 601.1, IEC60601, EN 60601-1-2, FDA 510k, FCC level B  |
| <b>Supplied accessories</b>                  | Getting Started Guide<br>Quick-Installation Sheet<br>Video cable (DVI Dual Link)<br>Main cables (UK, European (CEBEC/KEMA), USA (UL/CSA; adaptor plug NEMA 5-15P), Chinese (CCC))<br>USB 2.0 cable<br>External power supply |
| <b>Optional accessories</b>                  | NA  |
| <b>QA software</b>                           | MediCal QAWeb   |
| <b>Warranty</b>                              | 5 years   |

Last updated: 24 Jul 2015  
Technical specifications are subject to change without prior notice.  
Please check [www.barco.com](http://www.barco.com) for the latest information.

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