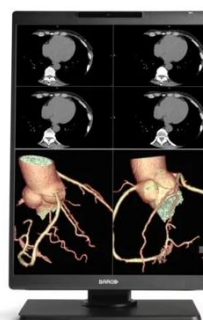


Nio Color 3MP (MDNC-3521)

Your 21" 3MP companion for general radiology today



- A trusted display with a long and stable lifetime
- A complete solution, up to speed with radiology today
- Intervention-free QA with QAWeb Enterprise
- A++ ecolabel thanks to high energy efficiency

Our Nio Color 3MP display is part of a range of modern radiology monitors that gives you what you need. No fluff, no overload of functionalities. But a sleek thin bezel design and just those tools and technologies that help you process cases effortlessly and efficiently.

A radiology monitor that fits your daily reading like a glove

Nio 3MP offers you exactly those tools that will make a difference. It boasts no less than 701 JNDs, so you can read detailed images with confidence. Its high luminance, I-Guard and Uniform Luminance technologies offer you a bright and stable screen quality. And the display also contains our SteadyColor and SteadyGray technologies for stable colors and grays. In any imaging modality.

Clean desk, clear head

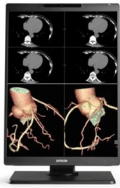
All of the above is built into an elegant design with thin bezels that fits both your hospital, and your home office desks. Moreover, you can rotate your Nio 3MP monitor between portrait and landscape format. Combine it in multi-head arrangements, two or three or four heads, neatly arranged in an arc embracing you.

A bright future

With Nio 3MP, you get a stable performance and a complete, industry-leading 5-year warranty that guarantees 20,000 backlight hours. Furthermore, our unique set of Intuitive Workflow Tools offers you a series of productivity hacks for more focus, flexibility and comfort. For example, did you know that SpotView has been proven to decrease reading time with no less than 15.5%? In short: you can rest easy with this young companion. For many years to come.

Always a clear view with QAWeb Enterprise

QAWeb Enterprise helps you manage quality and assure compliance of your expanding healthcare enterprise with less effort, lower cost, and complete confidence. This fully automated and secure system supports consistent image



QAWeb Enterprise helps you manage quality and assure compliance of your expanding healthcare enterprise with less effort, lower cost, and complete confidence. This fully automated and secure system supports consistent image quality, stable performance and uptime for all PACS display systems across your enterprise. You can install QAWeb Enterprise for free on all our diagnostic and clinical review displays.

Ensuring diagnostic confidence with MDR Class IIa

Our radiology displays are MDR-certified as Class IIa. Their product information has been reviewed and cleared by independent medical and technical experts, and is audited yearly. In other words, we ensure diagnostic confidence and peace of mind for our users.

A++ ecolabel for Nio Color 3MP

The Nio Color 3MP has been subjected to Barco's ecoscoring protocol and has received an A++ rating. Some key factors that contributed to this rating are:

- High energy efficiency: 29% better than predecessor
- 100% halogen-free cables, PCBs & plastic parts >25g
- Cardboard packaging with 84% recycled content
- Unpainted housing
- Enclosure uses polymers compatible for recycling

Product specifications

NIO COLOR 3MP (MDNC-3521)

General specifications

| | |
|---------------------------------------|---|
| Screen technology | IPS-SFT Color LCD |
| Active screen size (diagonal) | 541 mm (21.3") |
| Active screen size (H x V) | 433 x 325 mm (17.1 x 12.8") |
| Aspect ratio (H:V) | 4:3 |
| Resolution | 3MP (2048 x 1536 pixels) |
| Pixel pitch | 0.2115 mm |
| Color imaging | Yes |
| Gray imaging | Yes |
| Bit depth | 30 bit |
| Viewing angle (H, V) | 178° |
| Uniformity correction | ULT |
| SteadyGray | Yes (in MXRT display controller), when used as a system with MXRT display controller & QAWeb Enterprise |
| SteadyColor | Yes (in MXRT display controller), when used as a system with MXRT display controller & QAWeb Enterprise |
| RapidFrame | Yes |
| Ambient light presets | Yes, reading room selection |
| Ambient light sensor | Yes |
| Front sensor | Yes, I-Guard |
| Presence sensor | Yes |
| Maximum luminance (panel typical) | 1050 cd/m ² |
| DICOM calibrated luminance | 600 cd/m ² |
| Contrast ratio (panel typical) | 2000:1 |
| Response time ((Tr + Tf)/2) (typical) | 12 ms (gray-to-gray average) |
| Housing color | Black (RAL 9004) / White (RAL 9003) |
| Video input signals | 2x DisplayPort 1.4 |
| Video output signals | N/A |
| USB ports | 2x USB-B 2.0 upstream (endpoint) 5x USB-A 2.0 downstream (of which 1 charge port) |
| KVM switch | Yes |
| Power rating | 24 VDC, 4 A |
| Power requirements | This device shall only be powered by the medical approved power supply of Adapter Technology Co., Ltd., type ATM160T-P240. Ratings marked on the power supply: <ul style="list-style-type: none"> Input: 100-240 VAC, 1.8-0.9 A, 50-60 Hz Output: 24 VDC, 6.6 A |
| Power consumption | 45 W (nominal) < 0.35 W (hibernate) < 0.30 W (switched off) |
| Dimensions with stand (W x H x D) | Portrait: 351 x 531~631 x 225 mm Landscape: 491 x 462~562 x 225 mm |
| Dimensions w/o stand (W x H x D) | Portrait: 351 x 491 x 64 mm Landscape: 491 x 351 x 64 mm |
| Dimensions packaged (W x H x D) | 455 x 210 x 770 mm |
| Net weight with stand | MDNC-3521 xPxx: 8.8 kg MDNC-3521 xNxx: 7.7 kg |
| Net weight w/o stand | MDNC-3521 xPxx: 5.8 kg MDNC-3521 xNxx: 4.7 kg |
| Net weight packaged | MDNC-3521 xPxx: 12.2 kg (without optional accessories) MDNC-3521 xNxx: 11.2 kg (without optional accessories) |
| Tilt | -10° to +30° |
| Swivel | -30° to +30° |
| Pivot | 90° |
| Height adjustment range | 100 mm |
| Mounting standard | VESA (100 mm) |
| Screen protection | MDNC-3521 SPES/SPES DE: Protective, anti-reflective front glass MDNC-3521 SNES: N/A |
| Recommended modalities | All digital images, except digital mammography |

Product specifications

NIO COLOR 3MP (MDNC-3521)

| | |
|-----------------------|---|
| Certifications | <div>CE0123 (Medical Device) FDA 510(k) K230520 CCC (China), KC (Korea), BSMI (Taiwan), INMETRO (Brazil -Product numbers K9300390A1X, K9300391A1X), BIS (India), EAC (Russia, Kazakhstan, Belarus, Armenia and Kyrgyzstan) Safety specific:<ul style="list-style-type: none">IEC 60950-1:2005+A1:2009+A2:2013EN 60950-1:2006+A1:2010+A11:2009+A12:2011+A2:2013IEC 62368-1:2018EN IEC 62368-1:2020+A11:2020IEC 60601-1:2005+A1:2012+A2:2020EN 60601-1:2006+A1:2013+A12:2014+A2:2021AAMI ES 60601-1:2005+A1:2012+A2:2021CAN/CSA C22.2 No. 60601-1:2014 (Reaffirmed 2022)</div> <div>EMI specific<ul style="list-style-type: none">IEC 60601-1-2:2014+A1:2020 (Ed.4.1)EN 60601-1-2:2015+A1:2021 (Ed.4.1)FCC part 15 Class BICES-001 Level BVCCI (Japan)</div> |
| Supplied accessories | <div>Environmental: EU RoHS, China RoHS, REACH, Canada Health, WEEE, Packaging Directive<ul style="list-style-type: none">User GuideDocumentation discSystem sheetVideo cablesMains cable(s)USB cableExternal power supply</div> |
| Optional accessories | Display controller |
| QA software | QAWeb Enterprise |
| Warranty | 5 years, including 20000 hours backlight warranty |
| Operating temperature | 0 °C to 35 °C (20 °C to 30 °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 |
| Storage pressure | 50 to 106 kPa |

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