

Nio Color 8MP (MDNC-8132) MKII

Diagnostic grade image quality, full docking & built-in collaboration - designed for radiology everywhere.



- **Diagnostic 8MP image quality on large 32" screen**
- **Single-cable workstation connectivity with USB-C**
- **Built-in remote collaboration with camera & audio**
- **Remote compliance management through QAWeb Enterprise**
- **Sustainable long-term value with 5-year warranty**

Remote and hybrid reading is no longer the exception — it is the new standard. Radiologists need the same diagnostic confidence at home or on the road as they have in the hospital reading room. The Nio Color 8MP is built for exactly this reality: a single 32" 8MP display that delivers Barco-grade diagnostic image quality, full USB-C docking, built-in camera and audio, and remotely managed compliance — wherever your team reads.

Superior image quality on a larger canvas

A generous 32" screen at 8MP resolution gives your radiologists the space to lay out images and reports on a single display — no toggling, no compromise on pixel density. Barco's proprietary image technologies ensure what your team sees is always accurate, stable, and consistent:

- **SteadyGray:** precise and consistent grayscale representation — critical for X-ray, CT, and MRI
- **SteadyColor:** accurate and consistent color rendering for endoscopy, ultrasound, and nuclear medicine
- **I-Guard:** stable calibration maintained automatically across the display's full working lifetime
- **Uniform Luminance Technology:** uniform brightness correction across the entire screen surface
- **RapidFrame:** sharp, artefact-free cine scrolling for high-frame-rate image series
- **Ambient Light Compensation** for optimal viewing in various lighting conditions



One cable. Every device. Total control.

USB-C Alt Mode turns the Nio Color 8MP into the central docking hub of your workstation — delivering video, data, power, and internet through a single cable. No adapter tray, no cable nest.

- KVM switching: Switch instantly between up to 3 input devices — either PACS workstations or laptop — all from a single selection on the display
- Picture-by-picture: With or split your screen into 2 halves through a single USB-C cable or DP cable for Split-screen mode, or view the output of 2 workstations side by side with the dual workstation viewing option
- Built-in LAN port: Share a stable wired network over USB-C with the connected workstations or laptop
- Daisy chaining: Connect additional displays without adding cable clutter to the desk

Your full reading setup — at home, in the hospital, anywhere

Remote reading demands a setup that is quick to deploy and free of peripheral clutter. The Nio Color 8MP has the hardware your radiologists need built directly into the display — so the reading experience is identical whether they are at home, in a satellite clinic, or in the main reading room.

- Integrated camera: Always-ready video for remote case consultations and virtual MDT meetings, without a separate webcam
- Built-in speaker and microphone: Full audio capability built in — no speakerphone, no extra USB adapters cluttering a home desk

Compliance, managed remotely, for life

For a department head, QA compliance is non-negotiable — and manual calibration rounds consume time your team doesn't have. The Nio Color 8MP handles this automatically:

- QAWeb Enterprise: Automated quality assurance and compliance monitoring across all displays in your fleet, managed remotely — no on-site visits, no manual calibration rounds
- MDR Class IIa & FDA 510(k) cleared: Independently reviewed and audited annually — giving clinical teams and procurement full diagnostic confidence in every market

Built to last, built responsibly

We design the Nio Color 8MP for its full lifecycle — from first installation to end of life — with sustainability and long-term value built in. Our all-inclusive warranty covers performance over 5 to 7 years.

Furthermore, the Nio Color 8MP's ecoscore reflects low energy consumption and responsible material choices:

- Automatic standby mode when device is not in use
- Use of plastics containing 35% post-consumer recycled content
- >50% halogen-free cables & >65% halogen-free PCBs
- >90% recyclable packaging

Product specifications

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General Specifications

Screen technology	IPS
Active screen size (diagonal)	812.80 mm (32.0")
Active screen size (H x V)	708.48 x 398.52 mm (27.9 x 15.7")
Aspect ratio (H:V)	16:9
Resolution	Native 8MP (3840 x 2160 pixels @ 60 Hz) Configurable to 2x 4MP+ (1920 x 2160 pixels @ 60 Hz)
Pixel pitch	0.1845 mm
Color imaging	Yes
Gray imaging	Yes
Bit depth	30 bit
Viewing angle (H, V)	178°
Uniformity correction	ULT
SteadyGray	Yes
SteadyColor	Yes, (in MXRT Display Controller), when used as a system with MXRT Display Controller & QAWeb Enterprise)
Pathology Setting	Yes
Color gamut NTSC	NTSC: 94%
Color gamut sRGB	sRGB: 132%
sRGB Delta E2000 (typical)	Average : < 3 Max: < 5
Ambient light presets	Yes, reading room selection
Ambient light sensor	Yes
Front sensor	Yes, I-Guard
Presence sensor	Yes
Maximum luminance (panel typical)	850 cd/m ²
DICOM calibrated luminance	500 cd/m ²
Contrast ratio (panel typical)	1350:1
Response time ((Tr + Tf)/2) (typical)	12.7 ms
Housing color	Black (RAL 9004) / White (RAL 9003)
Video input signals	2x DisplayPort 1.4 1x USB-C 3.2 DisplayPort Alt Mode
Video output signals	1x DisplayPort 1.4 (MST)
USB ports	Upstream: 2x USB-B 2.0 1x USB-C 3.2 (DisplayPort Alt Mode, Power Delivery up to 75W) Downstream: 2x USB-A 2.0 1x USB-A 2.0 (side of the display) 1x USB-C 2.0 (side of the display, Power Delivery up to 7.5W)
LAN/RJ45 ports	1x 1GbE
Power rating	DC input: 24VDC 8.3A USB-C output: 5VDC 3A, 9VDC 5A, 15VDC 5A, 20V 3.75A USB-C output (side): 5VDC 1.5A
Power requirements	This device shall only be powered by the medical approved power supply of Adapter Tech., type ATM200T-P240: Input: 100-240VAC, 50-60Hz, 2.5-0.9A Output: 24VDC, 8.3A
Power consumption	65 W (nominal) < 0.35 W (hibernate) < 0.30 W (switched off)
Dimensions with stand (W x H x D)	743 x 518~618 x 238 mm
Dimensions w/o stand (W x H x D)	743 x 459 x 63 mm
Dimensions packaged (W x H x D)	898 x 752 x 358 mm
Net weight with stand	13 kg
Net weight w/o stand	8.4 kg
Net weight packaged	21 kg (without optional accessories)
Tilt	-5° to +25°
Swivel	-30° to +30°
Pivot	N/A
Height adjustment range	100 mm
Mounting standard	VESA (100 mm)
Screen protection	N/A
Recommended modalities	All digital images, except digital mammography.

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Certifications	CE0123 (Medical Device) FDA 510(k) K233693 CCC (China) (pending), KC (Korea) (pending), INMETRO (Brazil) (pending), BIS (India) (pending), EAC (Russia) (pending) Safety specific: IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IEC 60601-1:2005+A1:2012+A2:2020 EN 60601-1:2006+A1:2013+A2:2021 AAMI ES 60601-1:2005+A1:2012+A2:2021 CAN/CSA C22.2 No. 60601-1:2014 (Reaffirmed 2022) EMI specific: IEC 60601-1-2:2014+A1:2020 (Ed.4.1) EN 60601-1-2:2015 + A1:2021 (Ed.4.1) FCC part 15 Class B ICES-001 Level B VCCI (Japan) (pending) Environmental: EU RoHS, China RoHS, REACH, Canada Health, WEEE, Packaging Directive
Supplied accessories	User Guide Quick Install Sheet Documentation disc System sheet Video cables Mains cables USB cable USB-C cable External power supply
Optional accessories	Display controller Touch pad
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 70 % (non-condensing)
Storage humidity	5 % to 70 % (non-condensing)
Operating pressure	70 kPa
Storage pressure	50 to 106 kPa

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