

Nio Fusion 12MP (MDNC-12130)

Diagnostic versatility at your fingertips



- **Multimodality display for PACS and breast imaging**
- **12MP screen resolution and Uniform Luminance Technology**
- **Accurate and consistent colors and greyscales**
- **Integrated tools to support workflow and improve ergonomics**
- **Automated QA and compliance tests**

A versatile diagnostic display, for both PACS and breast imaging

The Nio Fusion 12MP (MDNC-12130) display is designed to combine PACS and breast images on one workstation, so you don't need to work on a cluttered desk with complex configurations and multiple portrait displays. A Nio Fusion 12MP will represent both 2D and 3D images fluidly, brightly and in detail, further helping you to speed up your reading sessions. A set of unique integrated tools improve reading ergonomics and support efficient workflow for static and dynamic imaging.

- Medical display
- Excellent uniformity correction
- Perfect representation of calibrated colors and greyscales

Enjoy consistent and compliant colors and greyscales

With a 12MP resolution, you'll fit multiple images on one screen and enjoy every single one in extremely sharp and precise quality, with less panning and zooming. Nio Fusion 12MP displays are calibrated to meet the DICOM standard for greyscales. And thanks to the SteadyColor™ technology, you can also confidently rely on perceptually linear colors.

Barco's QAWeb Enterprise software, included in the display, guarantees consistent image quality through automated calibration and QA, and also enables compliance to the latest regional and international regulations for image quality.

Read on a flexible display, with optimal comfort

The Nio Fusion 12MP is surprisingly thin and light. It mirrors most of a human's natural field of vision and was designed to reduce head, hand and eye movements to a minimum. You can even switch between two workstations in no time, at the touch of a button with integrated KVM (Keyboard-Video-Mouse).

- Reflection-free surface enhances image sharpness



- SoftGlow ambient lighting reduces eye fatigue
- Uniform Luminance Technology ensures constant luminance in all regions of the screen
- Ambient Light Sensor and Compensation provide consistent images in any lighting conditions

A future-proof investment that lasts

The Nio Fusion 12MP is an all-in-one imaging solution, for both PACS and breast imaging, which will make it possible for you to save operational costs. Its smooth, fast system was designed to support you in your workflow, enabling you to see more patients. And last but not least, thanks to its long lifetime, the display can be your companion for years to come. All its components are warranted for 5 years.

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.

Please consult your Barco representative or distributor in your country or territory to confirm availability. A reference to any product or service on this site does not imply that such product is or will be available in your location.

Technologies that enhance image quality:

- Uniform Luminance Technology to ensure that all regions of the screen have an even luminance
- SteadyColor™ calibration technology to meet the DICOM standard for grayscale and to guarantee consistent, perceptually linear color
- SteadyGray™ ensures that all gray values closely match the selected white tint. This can be blue base, clear base, or some other preferred white tint
- QAWeb Enterprise, a cloud-based technology for automated calibration and Quality Assurance
- I-Guard™ front sensor to ensure 24/7 compliance to image quality standards and guidelines
- Efficient DuraLight™ backlights for a long lifetime of brighter images

Technologies that enhance productivity:

- RapidFrame™ to ensure crisp and in-focus moving images, with up to 10% higher detection of small details in moving images*
- Conference CloneView™ software to project and control images on a large screen with ease
- SoftGlow™ task and wall lighting to improve reading room conditions
- SpotView™ to highlight subtle details in a region of interest
- KVM to switch effortlessly between two workstations

*Marchessoux, C., et al. (2011). Validation of New Digital Breast Tomosynthesis Medical Display. Proceedings of SPIE, 7966, 79660R, 2011.

Product specificaties**NIO FUSION 12MP (MDNC-12130)**

General specifications	
Scherntechnologie	LCD
Actief schermformaat (diagonaal)	784 mm (30.9")
Formaat actief scherm (H x V)	653 x 435 mm (25.7 x 17.1")
Beeldverhouding (H:V)	3:2
Resolutie	Native 12MP (4200 x 2800 pixels) Configurable to 2 x 5.8MP (2100 x 2800 pixels)
Pixelpitch	0.1554 mm
Beeldkleur	Yes
Grijsbeeldvorming	Yes
Bit depth	30 bit
Kijkhoek (H, V)	178°
Uniformity correction	ULT
SteadyGray	Yes (in display), when used with system components as outlined in the user guide
Steady Color	Yes (in display), when used with system components as outlined in the user guide
I-Luminate	No
Voorgeprogrammeerde instellingen voor omgevingslicht	Yes, reading room selection
Ambient light sensor	Yes
Backlight Output Stabilization Technology (BLOS)	No
Voorsensor	Yes
Maximale luminantie (paneel standaard)	1200 cd/m ²
DICOM-gekalibreerde luminescentie	600 cd/m ²
Contrastverhouding (paneel standaard)	1500:1
Reactietijd ((stijgtijd + valtijd)/2) (standaard)	10 ms (average, with all single transitions within 1 frame period)
Kleur behuizing	Black / White
Video-ingangssignalen	2x DisplayPort 1.2
Video-uitgangssignalen	N/A
USB-poorten	2x USB-B 2.0 upstream (switchable endpoint) 2x USB-A 2.0 downstream
KVM switch	Yes
Power rating	100-240 Vac, 50/60 Hz, 3.6-1.6 A
Energieverbruik	105 W (nominal) < 0.5 W (hibernate) < 0.5 W (standby)
Afmetingen met standaard (B x H x D)	695 x 528~628 x 239 mm
Afmetingen zonder standaard (B x H x D)	695 x 483 x 74 mm
Afmetingen verpakt (B x H x D)	800 x 650 x 295 mm
Nettogewicht met standaard	16.6 kg
Nettogewicht zonder standaard	12.0 kg
Nettogewicht verpakt	21.3 kg (without optional accessories)
Kanteling	-5° to +25°
Zwenking	-30° to +30°

Product specificaties**NIO FUSION 12MP (MDNC-12130)**

Roteren	N/A
Hoogteregelbereik	100 mm
Montagestandaard	VESA (100 mm)
Bescherming van het scherm	N/A
Aanbevolen procedures	All digital images, including digital mammography and breast tomosynthesis
Certificeringen	<p>CE0123 (Medical Device) FDA 510(K) K203106 CCC (China) KC (Korea) BIS (India) EAC (Russia, Kazakhstan, Belarus, Armenia and Kyrgyzstan)</p> <p>Safety specific: IEC 60950-1:2005 + A1:2009 EN 60950-1:2006 + A1:2010 + A11:2009 + A12:2011 + A2:2013 UL 60950-1:2019 CAN/CSA C22.2 No. 60950-1-07:2014 IEC 60601-1:2005 + A1:2012 EN 60601-1:2006 + A1:2013 + A12:2014 ANSI/AAMI ES 60601-1:2005 + R1:2012 CAN/CSA C22.2 No. 60601-1:2014</p> <p>EMI specific: IEC 60601-1-2:2014 (ed4) EN 60601-1-2:2015 (ed4) FCC part 15 Class B ICES-001 Level B VCCI</p> <p>Environmental: EU RoHS China RoHS, China Energy Label Korea e-Standby REACH Canada Health WEEE Packaging Directive</p>
Meegeleverde accessoires	User guide Documentation disc System sheet Video cables USB cables Mains cables
Optionele accessoires	Display controller
Software voor kwaliteitsgarantie	QAWeb
Garantie	5 years, including 40000 hrs backlight warranty
Bedrijfstemperatuur	0 °C to 35 °C (20 °C to 30 °C within specs)
Opslagtemperatuur	-20 °C to 60 °C
Vochtigheid in bedrijf	10% to 70% (non-condensing)
Vochtigheid bij opslag	10% to 70% (non-condensing), max. 70% at max. 40 °C
Bedrijfsdruk	62 kPa minimum
Opslagdruk	50 to 106 kPa

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