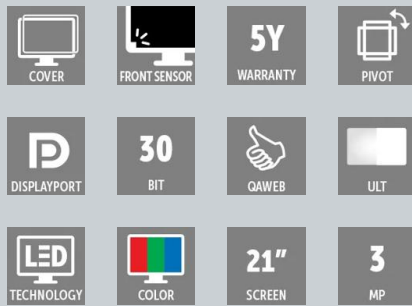


Nio Color 3MP Dental (MDNC-3421)

21" diagnostic display for the dental office



- Shows sharp, bright dental images
- Reveals more details
- Enables faster decisions

Our Nio Color 3MP dental display has everything it takes for dental specialists. It brings sharp and bright images to the diagnostic reading room so you can quickly visualize concealed anatomic structures and easily detect dental pathologies. The Nio Color 3MP is available with and without cover.

An accurate diagnosis

The Nio Color 3MP dental display has been designed specifically for use in the dental reading room. For endodontic treatment, for example, visualization of small details is essential for a swift and correct diagnosis and an accurate treatment plan. Even when used in different ambient light conditions, the Nio Color 3MP display will provide you with crisp, high-contrast detail, enabling an accurate treatment planning.

Planning with confidence

Thanks to the integrated uniformity technologies, subtle abnormalities or concealed anatomical structures in the oral and maxillofacial region can be visualized without imperfections or screen noise. While keeping the brightness steady over time, you can make accurate decisions.

In the case of oral surgery, it means critical structures can be more visible, which is crucial when planning for dental implant placement, for example. Detailed visualization of the bone structure, accurate localization of nerves and arteries all contribute to the success and safety of the procedure.

Models

- Nio Color 3MP dental with protective cover
- Nio Color 3MP without cover

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.

Product specifications**NIO COLOR 3MP DENTAL (MDNC-3421)**

General specifications	
Screen technology	IPS-TFT Color LCD
Active screen size (diagonal)	540 mm (21.3")
Active screen size (H x V)	432 x 324 mm (17.0 x 12.8")
Aspect ratio (H:V)	4:3
Resolution	3MP (2048 x 1536 pixels)
Pixel pitch	0.2109 mm
Color imaging	Yes
Gray imaging	Yes
Bit depth	30 bit
Viewing angle (H, V)	178°
Uniformity correction	ULT
Ambient light presets	Yes, reading room selection
Front sensor	Yes
Maximum luminance (panel typical)	900 cd/m ²
DICOM calibrated luminance	500 cd/m ²
Contrast ratio (panel typical)	1400:1
Response time ((Tr + Tf)/2) (typical)	10 ms
Housing color	RAL 9003 / RAL 9004
Video input signals	1x DVI 1x DisplayPort
USB ports	1x USB 2.0 upstream (endpoint) 3x USB 2.0 downstream
Power rating	24 VDC, 4 A
Power requirements	This device shall only be powered by the following medical approved power supplies: Sinpro Electronics, type CPU110-201 Ratings marked on the medical power supply: <ul style="list-style-type: none">■ Input rating: 100–240 VAC, 1.5 A, 47–63 Hz■ Output rating: 24 VDC, 4.58 A
Power consumption	50 W (nominal) < 0.5 W (standby)
Dimensions with stand (W x H x D)	491 x 472~572 x 235 mm
Dimensions w/o stand (W x H x D)	491 x 378 x 84 mm
Dimensions packaged (W x H x D)	500 x 280 x 670 mm
Net weight with stand	Option DE: 12.0 kg Option DE NC: 10.7 kg
Net weight w/o stand	Option DE: 7.0 kg Option DE NC: 5.7 kg
Net weight packaged	Option DE: 16.5 kg (without accessories) Option DE NC: 15.2 kg (without accessories)
Tilt	-10° to +30°
Swivel	-45° to +45°
Pivot	90°
Height adjustment range	100 mm

Product specifications**NIO COLOR 3MP DENTAL (MDNC-3421)**

Mounting standard	VESA (100 mm)
Screen protection	Option DE: Protective, anti-reflective glass cover Option DE NC: N/A
Recommended modalities	All digital images, except digital mammography
Certifications	CE0123 (Medical Device) FDA 510(K) K170837 for General Radiology CCC (China), KC (Korea), PSE (Japan), BIS (India), EAC (Russia, Kazakhstan, Belarus, Armenia and Kyrgyzstan) Safety specific: IEC 60950-1:2005 + A1:2009 EN 60950-1:2006 + A1:2010 + A11:2009 + A12:2011 + A2:2013 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. 60601-1:14 EMI specific: IEC 60601-1-2:2014 (ed4) EN 60601-1-2:2015 (ed4) FCC part 15 Class B ICES-001 Level B VCCI (Japan) Environmental: China Energy Label, EU RoHS, China RoHS, REACH, Canada Health, WEEE, Packaging Directive
Supplied accessories	User guide Documentation disc System sheet Video cable (1 x DisplayPort) Mains cable(s) USB 2.0 cable External power supply
Optional accessories	Graphics board
QA software	QAWeb
Warranty	5 years, including 20000 hrs backlight warranty
Operating temperature	0 °C to 40 °C (15 °C to 35 °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 minimum
Storage pressure	50 to 106 kPa

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