

# Nio Color 3MP Dental (MDNC-3521 Option DE)



- Shows sharp, bright dental images
- Reveals more details
- A++ ecolabel thanks to high energy efficiency

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 abnormalities. 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

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**Product specifications****NIO COLOR 3MP DENTAL (MDNC-3521 OPTION DE)**

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
I-Luminate	No
Ambient light presets	Yes, reading room selection
Ambient light sensor	Yes
Backlight Output Stabilization (BLOS)	No
Front sensor	Yes, I-Guard
Presence sensor	Yes
Maximum luminance (panel typical)	1050 cd/m <sup>2</sup>
DICOM calibrated luminance	600 cd/m <sup>2</sup>
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"><li>■ Input: 100-240 VAC, 1.8-0.9 A, 50-60 Hz</li><li>■ Output: 24 VDC, 6.6 A</li></ul>
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

**Product specifications****NIO COLOR 3MP DENTAL (MDNC-3521 OPTION DE)**

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	8.8 kg
Net weight w/o stand	5.8 kg
Net weight packaged	12.2 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	Protective, anti-reflective front glass
Recommended modalities	All digital images, except digital mammography
Certifications	<p>CE0123 (Medical Device) FDA 510(k) K230520 CCC (China), KC (Korea), BSMI (Taiwan), INMETRO (Brazil -Product numbers K9300390A, K9300391A), BIS (India), EAC (Russia, Kazakhstan, Belarus, Armenia and Kyrgyzstan) Safety specific:</p> <ul style="list-style-type: none"><li>▪ IEC 60950-1:2005 + A1:2009</li><li>▪ EN 60950-1:2006 + A1:2010 + A11:2009 + A12:2011 + A2:2013</li><li>▪ IEC 62368-1:2018</li><li>▪ EN IEC 62368-1:2020</li><li>▪ IEC 60601-1:2005 + A1:2012</li><li>▪ EN 60601-1:2006 + A1:2013 + A12:2014</li><li>▪ ANSI/AAMI ES 60601-1:2005 + R1:2012</li><li>▪ CAN/CSA C22.2 No. 60601-1:2014</li></ul> <p>EMI specific</p> <ul style="list-style-type: none"><li>▪ IEC 60601-1-2:2014 (ed4)</li><li>▪ EN 60601-1-2:2015 (ed4)</li><li>▪ FCC part 15 Class B</li><li>▪ ICES-001 Level B</li><li>▪ VCCI (Japan) (pending)</li></ul> <p>Environmental: China Energy Label (pending), EU RoHS, China RoHS (pending), REACH, Canada Health, WEEE, Packaging Directive</p>
Supplied accessories	<ul style="list-style-type: none"><li>▪ User Guide</li><li>▪ Documentation disc</li><li>▪ System sheet</li><li>▪ Video cables</li><li>▪ Mains cable(s)</li><li>▪ USB cable</li><li>▪ External power supply</li></ul>
Optional accessories	Display controller
QA software	QAWeb
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 minimum
Storage pressure	50 to 106 kPa

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