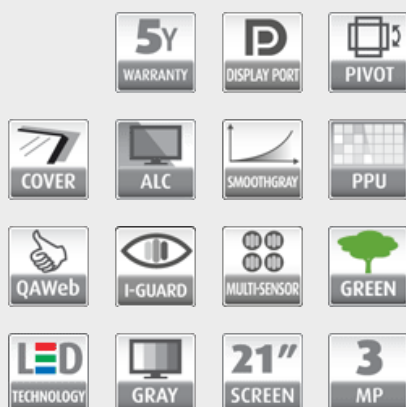# Coronis 3MP LED (MDCG-3221)

3MP premium diagnostic grayscale display system

Coronis 3MP LED is the industry-leading display system for grayscale radiology imaging. It delivers optimum diagnostic precision and workflow efficiency for high-resolution PACS imaging, CT, MRI, chest radiology, angiography, etc.

50 more shades of gray

Barco's high-bright LED backlights render more Just Noticeable Differences to help you see more shades of gray. By making subtle details more noticeable more quickly, Coronis 3MP LED reduces windowing and leveling time so you can read your studies more efficiently.

Perfect images

Barco's image-enhancing technologies - designed for the unique characteristics of LED backlit medical displays - ensure perfect image quality at all times. PPU-LED reduces panel noise and renders uniform DICOM images from center to corner. An Intelligent Multi Sensor Technology system (I-MST) combines Barco's patented I-Guard front-of-screen sensor with backlight, ambient light and temperature sensors to optimize image quality and keep it consistent over time.

Green performance

Using energy-efficient LED backlights, Barco's Coronis 3MP LED is as low in power consumption as it is high in brightness. Additionally, Barco's LED backlights are mercury-free, produce less heat, and last longer. This allows Barco to guarantee a 5-year backlight warranty.
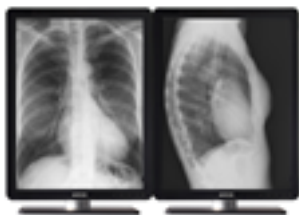
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Worry-free DICOM compliance

Barco's Coronis 3MP LED is bundled with MediCal QAWeb for automated calibration and QA, ensuring continuous diagnostic quality and maximum uptime of your workstation. MediCal QAWeb allows you to continue working while automated QA checks are being executed. The system also includes a secure online web service for remote, centralized image quality management.

Product specifications — Coronis 3MP LED (MDCG-3221)

Specification	Coronis 3MP LED (MDCG-3221)
Screen technology	UA-SFT (ultra advanced - super fine technology)
Backlight	LED
Active screen size (diagonal)	540 mm (21.3")
Active screen size (H x V)	325 mm x 433 mm (12.8" x 17.1")
Aspect ratio (H:V)	4:3
Resolution	3MP (2048 x 1536)
Pixel pitch	0.2115 mm
Color imaging	No
Gray imaging	Yes
Number of grayscales (LUT in/LUT out)	1024 grey levels (10/12)
Viewing angle (H, V)	178°
Uniform Luminance Technology	Yes
Per Pixel Uniformity (PPU)	Yes
Ambient Light Compensation (ALC)	Yes
Backlight Output Stabilization (BLOS)	Yes
I-Guard	Yes
Maximum luminance	1700 cd/m² typical
DICOM calibrated luminance	600 cd/m²
Contrast ratio (ULT off)	1400:1 typical
Response time (Tr + Tf)	40 ms
Scanning frequency (H; V)	15-129 kHz; 24-100 Hz
Housing color	Black / White
Video input signals	DVI-D Dual Link, DisplayPort
USB ports	1 upstream (endpoint), 2 downstream
USB standard	2.0
Power requirements (nominal)	100-240V
Power consumption (nominal)	40W
Power save mode	Yes
Power management	DVI-DMPM
Dot clock	280 MHz
OSD languages	English, German, French, Dutch, Spanish, Italian, Portugese, Polish, Russian, Swedish, Chinese (simplified), Japanese, Korean, Arabic
Dimensions with stand (W x H x D)	Portrait: 378 x 528~628 x 235 mm Landscape: 491 x 472~572 x 235 mm
Dimensions w/o stand (W x H x D)	378 x 491 x 84 mm
Dimensions packaged (W x H x D)	686 x 342 x 585 mm
Net weight with stand	12.8 kg
Net weight w/o stand	8 kg
Net weight packaged with stand	17.7 kg
Net weight packaged w/o stand	N/A
Height adjustment range	100 mm
Tilt	-5° / +25°
Swivel	-30° / +30°
Pivot	N/A
Mounting standard	VESA (100 mm)
Screen protection	Protective, non-reflective glass cover

Product specifications	Coronis 3MP LED (MDCG-3221)
Recommended modalities	CT, MR, US, DR, CR, NM, Film
Certifications	CE0120 (MDD 93/42/EEC; A1:2007/47/EC class IIb product), CE- 2014/30/EU, CE - 93/42/EEC; A1:2007/47/EC class II b, IEC60950-1:2005 + A1:2009 (2ND EDITION), IEC 60601-1:2005 +C1:2006 + C2:2007 + A1:2012, ANSI/AAMI ES 60601-1:2005 + C1:2009 + R1:2012, CAN/CSA-C22.2 No. 60601-1:2014, DEMKO - EN 60601-1:2006 + A11:2011 + A12:2014 + A1: 2013, EN 60601-1-2:2007, CCC - GB9254-2008 + GB4943.1-2011 + GB17625.1-2003, KC, VCCI, FCC class B, ICES-001 Level B, FDA 510(k), RoHS
Supplied accessories	User Guide Quick Installation Sheet Video cables (1 x DVI Dual Link, 1 x DisplayPort) Main cables (UK, European (CEBEC/KEMA), USA (UL/CSA; adaptor plug NEMA 5-15P), Chinese (CCC)) USB 2.0 cable External power supply
QA software	MediCal QAWeb
Warranty	5 years
Operating temperature	0°C to 40°C (15°C to 30°C within specs)
Storage temperature	-20°C to 60°C
Operating humidity	8% - 80% (non-condensing)
Storage humidity	5% - 95% (non-condensing)
Operating altitude	2000 m
Storage altitude	7500 m

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