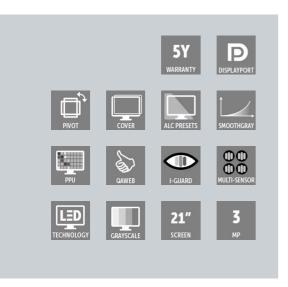
Coronis 3MP LED (MDCG-3221)

3MP premium diagnostic grayscale display system





- Grayscale display with 2048 x 1536 resolution
- Barco LED technology to unveil the subtlest details
- Intelligent Multi-Sensor Technology for incredible images

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.

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



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Barco

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.

- High-bright LED backlights ensuring more grayscales
- Power-efficient LED backlights reducing overall operational and maintenance costs
- Intelligent Multi-Sensor Technology system for consistent image quality
- PPU-LED for uniform images across the entire screen
- Continuous, worry-free DICOM-compliance under all lighting conditions
- Web-based service for transparent calibration and QA
- Smart, ergonomic design

Product specifications CORONIS 3MP LED (MDCG-3221)

General specifications	
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°
Uniformity 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 w/o stand	Product specifications	CORONIS 3MP LED (MDCG-3221)
Height adjustment range	Net weight packaged with stand	17.7 kg
Service .59" / +25"	Net weight packaged w/o stand	N/A
Swive .30" / +30"	Height adjustment range	100 mm
Pivot N/A Mounting standard VESA (100 mm) Screen protection Protective, non-reflective glass cover Recommended modalities All eligital images, except digital mammography Certifications FDA \$100K IX\$1246 for General Radiology CEL639 (MDD \$947/ECC, A12007/A7/EC class lib product) CCC (China), KC (Korea), BIS (India), EAC (Russia, Kazakhstan, Belanus, Armenia and Kyrgyzstan) Safety specific: IEC 60990-1 2005 + A1 2009 EN 60990-1 2005 + A1 2010 + A11 2009 + A12 2011 + A2 2013 IEC 60601-1 2005 + A1 2012 EN 60601-1 2005 + A1 2012 EN 60601-1 2005 + A1 2012 EN 60601-1 2005 + A1 2014 EM specific: IEC 60601-1 2005 + A1 2014 EM specific: IEC 60601-1 2005 + A1 2014 EM specific: IEC 60601-1 2005 + A1 2015 EN 60601-1 2005 + A1 2014 EN 60601-1 2005 + A1 2015 EN 60601-1 2005 + A1 2014 EN 60601-1 2004 EN 60601-1 2005 + A1 2014 EN 60601-1 2005 + A1 2	Tilt	-5° / +25°
Mounting standard VESA (100 mm) Screen protection Protective, non-reflective glass cover All digital images, except digital mammography Certifications FDA 510(8) (131246 for General Radiology CE1639 (MDD 93742/EEC, A12007/47/EC class lib product) CCC (Chma), KC (Koreal, Bit Sinda), EAC (Russia, Kazakinstan, Belarus, Armenia and Kyrgyzstan) Safety specific: IEC 6095-12005 + A12009 EN 60950-12005 + A12010 + A12209 + A12 2011 + A2 2013 IEC 60601-12005 + A12012 EN 60001-12005 +	Swivel	-30° / +30°
Screen protection Protective, non-reflective glass cover Recommended modalities All idigital images, except digital mammography Certifications FDA 510(K) K131246 for General Radiology CE1639 (MDD 93/42/EEC; A1,2007/A7EC class lib product) CCC (Chinal, KC (Korea), BIS (India), EAC (Russia, Kazakhstan, Belarus, Armenia and Kyrgyzstan) Safety specific: IEC 60950-1 2005 + A1 2009 EN 60950-1 2005 + A1 2009 EN 60950-1 2005 + A1 2001 EN 6001-1 2005 + A1 2010 EN 6001-1 2005 + A1 2011 EN 6001-1 2006 + A1-2014 EN 6001-1 2006 + A1-2014 EN 6001-1 2006 + A1-2014 EM specific: IEC 60601-1 2-2014 (ed4) EN 6001-1-2 2015 (ed4) ECC 60601-1-2 2015 (ed4) ECC 60601-1-2 2015 (ed4) ECC 9001 Levet B VCCI (Japan) Environmental: China Energy Label, EU RoHS, China RoHS, REACH, Canada Health, WEEE, Packaging Directive 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 (CCCI) USB 2.0 cable External power supply OA software MediCal GAWeb Warranty 5 years OPerating temperature O°C to 40°C (15°C to 30°C within specs) Storage temperature O°C to 40°C (15°C to 30°C within specs) Storage temperature O°C to 40°C (15°C to 30°C within specs) Storage temperature OPerating humidity SX -95% (non-condensing) Storage humidity Operating attitude	Pivot	N/A
Recommended modalities All digital images, except digital mammography Certifications FDA \$10(K) K131246 for General Radiology CE1639 (MDD 93/44/FEC, At 2007/47/FC class lib product) CCC (China), KC (Korea), BIS (India), EAC (Russia, Kazakhstan, Belarus, Armenia and Kyrgyzstan) Safety specific: IEC 60950-12005 + At 2009 EN 60950-12005 + At 12009 EN 60950-12005 + At 12009 + A12 2011 + A2 2013 IEC 660611-12005 + At 12012 EN 60601-12005 + At 12012 EN 60601-12005 + At 12012 EN 60601-1-22014 (ed4) ANSI/AAMI ES 60601-1:24 EMI specific: IEC 609601-1-2 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 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 a cable External power supply GA software MediCal OAWeb 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 5% -95% (non-condensing) Storage humidity 50 -95% (non-condensing) Operating attitude	Mounting standard	VESA (100 mm)
FDA 510(K) K131246 for General Radiology CE1539 (MDD 93/42/EEC, At 2007/47/EC class lib product) CCC (China), KC (Korea), BIS (India), EAC (Russia, Kazakhstan, Belarus, Armenia and Kyrgyzstan) Safety specific IEC 60950-1:2005 + At 2009 EN 60950-1:2005 + At 12009 EN 60950-1:2005 + At 12009 EN 60950-1:2005 + At 12009 At 12009 + At 12011 + At 12013 EC 60950-1:2005 + At 12010 + At 12009 At 12011 + At 12013 EC 60950-1:2005 + At 12010 + At 12010 At 12010 + At 12013 EC 60950-1:2005 + At 12010 At 12012 EN 60601-1:2005 + At 12012 EN 60601-1:2005 + At 12012 EN 60601-1:2005 EX 60001-1:2005	Screen protection	Protective, non-reflective glass cover
CE1639 (MDD 93/42/EEC, At.2007/47/EC class lib product) CCC (China), KC (Korea), BIS (India), FAC (Russia, Kazakhstan, Belarus, Armenia and Kyrgyzstan) Safety specific: IEC 60950-1:2005 + At.2009 EN 60950-1:2006 + At.2010 + At.2011 + At.2011 + At.2011 + At.2013 IEC 60001-1:2005 + At.2012 EN 60601-1:2005 + At.2013 + At.2014 ANSI/AAMI ES 60061-1:2005 + Rt.2012 CAN/CSA C22.2 No. 60601-1:2005 + Rt.2012 CAN/CSA C22.2 No. 60601-1:24 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 Quick Installation Sheet Video cables (1x VDI Dual Link, 1x DisplayPort) Main cables (UK, European (CEBEC/KEMA), USA (UL/CSA; adaptor plug NEMA 5-15P), Chinese (CCC) USB 2.0 cable External power supply OA software Medical CAWeb Warranty 5 years Operating temperature -20°C to 60°C Operating humidity 5x -95% (non-condensing) Operating altitude	Recommended modalities	All digital images, except digital mammography
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	Certifications	CE1639 (MDD 93/42/EEC; A1:2007/47/EC class IIb product) CCC (China), KC (Korea), 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:
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	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
Operating temperature O°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	QA software	MediCal QAWeb
Storage temperature -20°C to 60°C Operating humidity 8% -80% (non-condensing) Storage humidity 5% -95% (non-condensing) Operating altitude 2000 m	Warranty	5 years
Operating humidity 8% -80% (non-condensing) Storage humidity 5% -95% (non-condensing) Operating altitude 2000 m	Operating temperature	0°C to 40°C (15°C to 30°C within specs)
Storage humidity 5% -95% (non-condensing) Operating altitude 2000 m	Storage temperature	-20°C to 60°C
Operating altitude 2000 m	Operating humidity	8% -80% (non-condensing)
	Storage humidity	5% -95% (non-condensing)
Storage altitude 7500 m	Operating altitude	2000 m
	Storage altitude	7500 m

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