Coronis 3MP (MDCG-3120)

3 MegaPixel premium diagnostic grayscale display system

Coronis 3MP is the preferred display system for grayscale radiology imaging. Featuring a resolution of 1536x2048, it delivers optimum diagnostic precision and workflow efficiency in high-resolution PACS imaging, CT, MRI, chest radiology, angiography, etc.

Grayscale technology perfected
Building on proven technology, Barco's Coronis 3MP provides ultimate precision and performance. The advanced 10-bit architecture ensures accurate image representations with 1024 simultaneous shades of gray out of a palette of 4096.

Transparent calibration and Quality Assurance
The Coronis 3MP 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 diagnoses while automated QA checks are being executed. The system also includes a secure online web service for remote, centralized image quality management.

Worry-free DICOM compliance under all lighting conditions
The integrated **I-Guard** continually guards and adjusts the luminance output of the diagnostic viewing area. Combined with the MediCal QAWeb software, the patented I-Guard brings fast and easy calibrations, automatic Quality Assurance testing and remote diagnoses of the display.

The intelligent **Ambient Light Compensation (ALC)** system assures that the Coronis 3MP remains DICOM compliant under all lighting conditions by adapting their brightness relative to the ambient light conditions.

The Coronis 3MP display system includes:
· A 3 MegaPixel flat panel display
· MediCal QAWeb software for automated calibration and Quality Assurance
· A high-speed, high-performance display controller: check the compatibility matrix

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Technical specifications

Screen technology	TFT AM LCD Dual Domain IPS
Active screen size (diagonal)	528 mm (20.8")
Active screen size (H x V)	424 x 318 mm (16.7 x 12.5")
Aspect ratio (H:V)	4:3
Resolution	3MP (2048 x 1536)
Pixel pitch	0.2070 mm
Color imaging	No
Gray imaging	Yes
Number of grayscales (LUT in/LUT out)	1024 grey levels (10/12)
Viewing angle (H, V)	170°
Uniform Luminance Technology (ULT)	Yes
Per Pixel Uniformity (PPU)	No
Ambient Light Compensation (ALC)	Yes
Backlight Output Stabilization (BLOS)	Yes
I-Guard	Yes
Maximum luminance	1000 cd/m²
DICOM calibrated luminance (ULT off)	500 cd/m²
Contrast ratio (ULT off)	900:1
Response time (Tr + Tf)	50 ms
Video input signals	DVI-D Dual Link
USB ports	1 upstream (endpoint), 3 downstream
USB standard	2.0
Power consumption (nominal)	64W
Power save mode	Yes
Dimensions with stand (W x H x D)	Portrait: 369 x 558~658 x 285 mm
	Landscape: 477 x 504~604 x 285 mm
Dimensions w/o stand (W x H x D)	Portrait: 369 x 477 x 100 mm
	Landscape: 477 x 369 x 100 mm
Net weight with stand	14.2 kg
Mounting standard	VESA (100 mm)
Screen protection	Protective, non-reflective glass cover
Recommended modalities	CT, MR, US, DR, CR, NM, Film
Certifications	UL 60601-1 1ST EDITION, CAN/CSA-C22.2 NO. 601.1-M90, UL 60950-1 1ST EDITION, CSA C22.2 NO. 60950-1-03 1ST EDITION, IEC 60601-1 2ND ED:1988 + A1:1991 + A2:1995, IEC 60950-1:2001 1ST EDITION, CE - 2004/108/EC, CE - 93/42/EC, A1:2007/47/EC CLASS IIB, DEMKO - EN 60601-1, CCC - GB9254-2008 + GB4943-2001 + GB17625.1-2003, VCCI, FCC class B, BSMI, FDA 510K, RoHs
Supplied accessories	Getting Started Guide
	Quick-Installation Sheet
	Video cable (DVI Dual Link)
	Main cables (UK, European (CEBEC/KEMA), USA (UL/CSA; adaptor plug NEMA 5-15P), Chinese (CCC))
	USB 2.0 cable
Optional accessories	Barco Diagnostic Medical LCD Display Dual Head Stand
QA software	MediCal QAWeb

Warranty	5 years

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