Nio 5MP (MDNG-6121)

5 MegaPixel (2096 x 2800) diagnostic grayscale display system

Nio 5MP (MDNG-6121) is a flexible diagnostic display system with a resolution of 2096 x 2800. Thanks to its high luminance and contrast, Nio 5MP is a perfect solution for a wide range of medical imaging applications, such as X-ray, PACS, MRI, angiography, computed tomography and mammography on PACS.

Long-term image confidence
Backlight Output Stabilization technology guarantees fast power-up and continuously stabilizes the luminance output of the LCD's backlight. This significantly improves the overall optical efficiency of the display system and provides long-term image stability.

Perfect color matching
Every multi-head Nio 5MP display system is carefully color matched to guarantee that the color characteristics of all displays in the system are perfectly consistent.

Nio 5MP provides image crispness and an excellent viewing angle in a 2096 x 2800 resolution. **The Nio 5MP display system includes:**
· One or more 5 MegaPixel flat panel displays
· MediCal QAWeb software for automated calibration and Quality Assurance
· A BarcoMed PCIe display controller

Check the compatibility matrix for more info about alternative display controllers.

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Technical specifications

Screen technology	TFT AM LCD Dual Domain IPS
Active screen size (diagonal)	541 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	5MP (2800 x 2100)
Pixel pitch	0.1540 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)	No
Backlight Output Stabilization (BLOS)	Yes
I-Guard	No
Maximum luminance	1100 cd/m²
DICOM calibrated luminance (ULT off)	500 cd/m²
Contrast ratio (ULT off)	1000:1
Response time (Tr + Tf)	32 ms
Scanning frequency (H; V)	30-150 kHz; 15-80 Hz
Housing color	Gray
Video input signals	DVI-D Dual Link
Video inout terminals	NA
USB ports	1 upstream (endpoint), 2 downstream
USB standard	2.0
Power requirements (nominal)	100-240V
Power consumption (nominal)	78W
Power save mode	Yes
Power management	DVI-DMPM
Dot clock	280 MHz
OSD languages	English, French, German, Spanish, Italian
Dimensions with stand (W x H x D)	Portrait: 382 x 577~637 x 249 mm Landscape: 488 x 472~532 x 249 mm
Dimensions w/o stand (W x H x D)	Portrait: 382x 488 x 114 mm Landscape: 488 x 382 x x 114 mm
Dimensions packaged (W x H x D)	519 x 339 x 699 mm
Net weight with stand	12.3 kg
Net weight w/o stand	8.3 kg
Net weight packaged with stand	17.4 kg
Net weight packaged w/o stand	13.4 kg
Height adjustment range	60 mm
Tilt	-5° / +30°
Swivel	-45° / +45°
Pivot	90°
Mounting standard	VESA (100 mm)
Screen protection	Protective, non-reflective PMMA cover

Recommended modalities	CT, MR, US, DR, CR, NM, Film
Certifications	UL 60601-1 1ST EDITION, CAN/ CSA-C22.2 NO. 601.1-M90, 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, BSMI - CNS13438(95) + CNS14336(94), KCC, VCCI, FCC class B, 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 External power supply
Optional accessories	NA
QA software	MediCal QAWeb
Units per pallet	NA
Pallet dimensions (W x H)	NA
Warranty	5 years

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Technical specifications are subject to change without prior notice.
Please check www.barco.com for the latest information.

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