

# Nio 3MP LED (MDNG-3220 CN)

3MP diagnostic grayscale display system



Nio 3MP LED is ideal for high-quality imaging of diagnostic grayscale modalities. This display system comes with LED backlights for higher brightness and a unique front-of-screen sensor for excellent image quality at all times. These and other innovative features make your image look the best it can.

#### Confident reading

Equipped with high-bright LED backlights, Nio 3MP LED delivers excellent brightness and more shades of gray to detect subtle details more quickly. The unique front-of-screen sensor ensures you see consistent and precise images at all times for confident diagnoses.

#### On-demand image quality checks

The front-of-screen sensor on Nio 3MP LED, which works seamlessly with Barco's online MediCal QAWeb solution for automated Quality Assurance and on-demand calibration, makes sure you are viewing perfect DICOM images.

#### An excellent investment

Using energy-efficient LED backlights, Nio 3MP LED is as low in power consumption as it is high in brightness. Because it uses less power, the display produces less heat and requires less cooling, which impacts maintenance and operational costs. Additionally, the LED backlights offer a long lifetime -even at high brightness -providing an excellent return on your investment.

#### A one-stop-shop solution

Barco medical displays include proprietary display controllers that are validated with the latest workstations and with all major PACS applications. They also include seamlessly integrated technologies and features to boost functionality and performance.

- With front-of-screen sensor & QA software
- LED backlights rendering more JNDs
- Lowest cost of ownership

## Product specifications

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### General specifications

Screen technology	IPS
Active screen size (diagonal)	520 mm (20.8")
Active screen size (H x V)	318 x 424 mm (12.52" x 16.69")
Aspect ratio (H:V)	4:3
Resolution	3MP (2048 X 1536)
Pixel pitch	0.207
Color imaging	No
Gray imaging	Yes
Number of grayscales (LUT in/LUT out)	1024 gray levels (10/12)
Viewing angle (H, V)	176°
Uniform Luminance Technology (ULT-LED)	Yes
Per Pixel Uniformity (PPU-LED)	No
Ambient Light Compensation (ALC)	No
Backlight Output Stabilization (BLOS)	Yes
Front sensor	Yes
Maximum luminance	1200 cd/m <sup>2</sup> typical
DICOM calibrated luminance (ULT off)	500 cd/m <sup>2</sup>
Contrast ratio (ULT off)	1200 typical
Response time (Tr + Tf)	30 ms (typical)
Scanning frequency (H; V)	15-129 kHz; 25-98 Hz
Housing color	Black / White
Video input signals	DVI-D Dual Link / DisplayPort
Video output signals	DisplayPort
Video in/out terminals	NA
USB ports	1 upstream, 2 downstream
USB standard	2.0
Power requirements (nominal)	100-240V
Power consumption (nominal)	30W
Power save mode	Yes
Power management	DVI-DMPM
Dot clock	280 MHz
OSD languages	English, German, French, Dutch, Spanish, Italian, Chinese (Simplified), Japanese, Korean
Dimensions with stand (W x H x D)	Portrait: (w x hmax x d): 378 x 628 x 235 mm. (w x hmin x d): 378 x 528 x 235 mm Landscape: (w x hmax x d): 491 x 572 x 235 mm. (w x hmin x d): 491 x 472 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)	495 x 388 x 655 mm
Net weight with stand	13 kg
Net weight w/o stand	8 kg
Net weight packaged with stand	17 kg
Net weight packaged w/o stand	12 kg
Height adjustment range	100 mm
Tilt	-10° / +30°
Swivel	-45° / +45°
Pivot	90°
Mounting standard	VESA (100 mm)
Screen protection	Protective, non-reflective glass cover
Recommended modalities	CT, MR, US, DR, CR, NM, Film
Certifications	GB9254-2008, GB4943.1-2011, GB17625.1-2012
Supplied accessories	User Guide Quick-Installation Sheet Video cable (1 x DisplayPort) Chinese power cable (CCC) USB 2.0 cable Adapters (Optional Adapter : Manufacturer : EDAC POWER ELECTRONICS CO., LTD., Model: EA10681P-240; Input: 100-240 Vac, 50-60 Hz, 2.0 A; Output: +24Vdc, 2.5 A Or manufacturer : BridgePower Corporation, Model: BPM060S24F09; Input: 100-240 Vac, 50-60 Hz, 1.5 A; Output: +24Vdc, 2.7 A)
Optional accessories	NA
QA software	MediCal QAWeb
Units per pallet	NA
Pallet dimensions (W x H)	NA
Warranty	5 years
Operating temperature	0°C to 35°C (15°C to 30°C within specs)
Storage -transport temperature	-20°C to 60°C
Operating humidity	8% -80% (non-condensing)
Storage -transport humidity	5% -85% (non-condensing)
Operating altitude	2000 m
Storage -transport pressure	7500 m

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