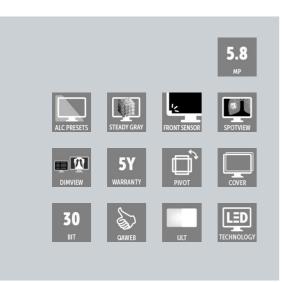# Nio Gray 5.8MP (MDNG-6221)

Updated 5.8MP high-bright grayscale display

- **Designed for radiology and 2D/3D mammography**

- **High-bright, adjustable tint grayscales**

- **I-Guard and QAWeb Enterprise for always-on compliance**

- **One-touch KVM switching**

- **Enhanced ambient light sensing and control**

Are you a radiologist specializing in reading breast cases in mainly grayscale modalities,
such as 2D mammography and 3D tomosynthesis?
If the answer is yes, then the Nio Gray 5.8MP is cut out just for you.
It's fully up to date with capabilities and innovations for today's breast imaging,
making this a modern display system that is efficient and easy for you to use.

Bigger image, more details

Why 5.8MP? Well, in contrast to conventional 5.2MP display systems, you get 12% more pixels on your screen, which means that you can see more details at any given moment. Combine this with the tall 4:3 aspect ratio, which offers more room to view images in their entirety.

Reliable reading

The Nio Gray 5.8MP offers you more Just Noticeable Differences, thanks to its high brightness and contrast ratio. Our integrated stability, calibration and uniformity technologies make sure that image quality, light output and DICOM compliance remain consistent over the years. The ambient light measurement sensor helps you stay in control of the environment you work in.

Efficient workflow

The Nio Gray 5.8MP is more than a grayscale display alone. It offers many ways to personalize settings to your liking, such as preferred tints of white or viewing angle. The KVM option helps you switch between workstations at the touch of a button. On top of that, the display can help you improve your efficiency and speed, thanks to the set of Intuitive Workflow Tools included with our MXRT medical display controllers.

BARCO

Did you know that SpotView, for example, makes it possible to make an area you choose twice as bright as it was originally? It's been proven to help radiologists reduce their reading time by as much as 15.5%.

Long lifetime, clear view

Install our free and secured QAWeb Enterprise application, and rely onintervention-free, remote quality assurance.

To summarize, your Nio Gray 5.8MP is a functional, easy-to-use diagnostic display system, fully up to date with today's innovations in general grayscale radiology, as well as 2D and 3D mammography. It comes with a 5-year warranty on all its components.

Ensuring diagnostic confidence with MDR Class IIa

Our radiology displays are MDR-certified as Class IIa. Their product information has been reviewed and cleared by independent medical and technical experts, and is audited yearly. In other words, we ensure diagnostic confidence and peace of mind for our users.

Technologies that enhance image quality:

- More detail on your screen, with 5.8MP resolution

- Designed to show breast images entirely, with 3:4 aspect ratio

- Increased contrast, with 1400:
  1 contrast ratio and 600 to 1000 cd/m² calibrated luminance

- Consistent brightness and grays,
  with Uniform Luminance Technology and SteadyGray

- Always stable DICOM images and auto QA, with I-Guard front sensor and optionally, QAWeb Enterprise

- Possibility to boost luminance, with I-Luminate and SpotView

- Optional settings and tools to adjust the display to your workflow,
  with Intuitive Workflow Tools

Ecolabel A for Nio Gray 5.8MP

The Nio Gray 5.8MP has been subjected to Barco's ecoscoring protocol and has received an A rating. Some key factors that contributed to this rating are:

- Energy efficient power supply, energy efficient standby and off modes

- Possibility to automatically switch to standby mode when device is not in use

- Halogen-free cables and plastics

- Use of recycled cardboard in packaging (>85% recycled content)

- Product design optimized for disassembly with common tools

技术规格	NIO GRAY 5.8MP (MDNG-6221)
一般规格	
屏幕技术	LCD
显示区域屏幕大小（对角线）	541 mm (21.3")
显示区域屏幕大小（水平 x 垂直）	324 x 433 mm (12.77" x 17")
纵横比 (H:V)	3:4 for each display in portrait mode, 3:2 overall
分辨率	5.8 MP (2100 x 2800 pixels)
像素间距	0.1545 mm
彩色成像	No
灰度成像	Yes
位深度	10 bit
视角 (H, V)	178°
均匀度校正	ULT
SteadyGray	Yes
I-Luminate	Yes
环境光预设	Yes, reading room selection
环境光线传感器	Yes
前传感器	Yes, I-Guard
最大亮度（面板典型值）	1560 cd/m²
DICOM 校准光源	Warrantied maximum: 1000 cd/m² Factory default: 600 cd/m²
对比度（面板典型值）	1400:1
响应时间 ((tR+TF)/2)（典型值）	12.5 ms
外壳颜色	Black (RAL 9004) / White (RAL 9003)
视频输入信号	2x DisplayPort 1.4
USB 端口	2 x USB-B 2.0 upstream (endpoint) 5 x USB-A 2.0 downstream (of which 1 charge port)
KVM 切换器	Yes
额定功率	24 VDC, 5 A
电源要求	This device shall only be powered by the medical approved power supply of AdapterTech., type ATM160T-P240 Input: 100-240 Vac, 50-60 Hz, 1.8-0.9 A Output: 24 Vdc, 6.6 A
功耗	60 W (nominal) 0.4 W (hibernate) 0.4 W (switched off)
带支架尺寸（宽 x 高 x 深）	Portrait: 378 x 528~628 x 235 mm Landscape: 491x 472~572 x 235 mm
不含支架的尺寸（宽 x 高 x 深）	Portrait: 378 x 491 x 84 mm Landscape: 491 x 378 x 84 mm
包装尺寸（宽 x 高 x 深）	500 x 280 x 670 mm
带支架净重	With protective cover: 11.9 kg Without protective cover: 10.6 kg
无支架包装净重	With protective cover: 6.9 kg Without protective cover: 5.6 kg
包装净重	With protective cover: 16.9 kg (without optional accessories) Without protective cover: 15.6 kg (without optional accessories)
倾斜	-10° to +30°
旋转	-45° to +45°
转动	90°
高度调节范围	100 mm
安装标准	VESA (100 mm)
屏幕保护	Protective, anti-reflective glass (optional)
推荐模态	All digital images, including digital mammography.

技术规格	**NIO GRAY 5.8MP (MDNG-6221)**
认证	FDA 510(K) K170476 for General Radiology, Digital Mammography and Breast Tomosynthesis CE0123 (Medical Device) CCC (China), KC (Korea), INMETRO (Brazil), BIS (India) Safety specific: IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IEC 60601-1:2005+A1:2012+A2:2020 EN 60601-1:2006+A1:2013+A12:2014+A2:2021 AAMI ES 60601-1:2005+A1:2012+A2:2021 CAN/CSA C22.2 No. 60601-1:2014 (Reaffirmed 2022) EMI specific: IEC 60601-1-2:2014+A1:2020 (Ed.4.1) EN 60601-1-2:2015+A1:2021 (Ed.4.1) FCC part 15 Class B ICES-001 Level B VCCI (Japan) Environmental EU RoHS, China RoHS, REACH, Canada Health, WEEE, Packaging Directive
随附配件	User Guide Documentation disc System sheet Video cable (1x DisplayPort) Mains cable(s) USB cable External power supply
可选配件	Graphics board
QA 软件	QAWeb Enterprise
保修政策	5 years, including 40000 hours backlight warranty
运行温度	0 °C to 40 °C (15 °C to 30 °C within specs)
存储温度	-20 °C to 60 °C
工作湿度	8 % to 80 % (non-condensing)
储存湿度	5 % to 85 % (non-condensing)
工作压力	70 kPa
存储压力	50 to 106 kPa

生成于：25 Sep 2025

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