

Nio Gray 5.8MP (MDNG-6221)

5.8MP high-bright grayscale display



- **Designed for radiology and 2D/3D mammography**
- **High-bright, adjustable tint grayscale**
- **I-Guard and QAWeb Enterprise for always-on compliance**

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. Furthermore, it's also perfectly suited for reading grayscale general radiology images in a comfortably high resolution.

Bigger image, more details

¿Por qué 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, and you get an ideal combo to start cutting back on additional panning and zooming.

Lectura fiable

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.

Flujos de trabajo eficaces

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

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%. You can also define user profiles, saving you and your colleagues time. These automatically adjust the display in situations where it is shared by multiple people.

Long lifetime, clear view

The Nio Gray 5.8MP adheres to the latest medical standards for medical devices in Europe & MQSA in the United States. It's also easy to install our free and highly secured QAWeb Enterprise application, with which you can rely on intervention-free, remote quality assurance. The tool makes it easy for PACS managers to centrally manage their Barco displays' uptime and compliance – anytime, anywhere.

To summarize, your Nio Gray 5.8MP monitor 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 its all 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.

Please consult your Barco representative or distributor in your country or territory to confirm availability. A reference to any product or service on this site does not imply that such product is or will be available in your location.

- 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 monitor to your workflow, with Intuitive Workflow Tools

Especificaciones del producto**NIO GRAY 5.8MP (MDNG-6221)**

Especificaciones generales	
Tecnología de visual	LCD
Tamaño de pantalla activa (diagonal)	541 mm (21,3")
Tamaño de pantalla activa (H x V)	324 x 433 mm (12,77" x 17")
Relación de aspecto (H:V)	3:4 para cada pantalla en modo horizontal, 3:2 en total
resolución	5,8 MP (2100 x 2800 píxeles)
Profundidad de píxel	0,1545 mm
Imágenes en gris	Sí
Profundidad de bits	10 bits
Ángulo de visión (H, V)	178°
Cristal óptico	MDNG-6221 opción SPEF: Sí MDNG-6221 opción SNEF: No
Corrección de la uniformidad	ULT
I-Luminate	Sí
Gris	Sí
Ajustes predefinidos de luz ambiente	Sí, selección de sala de lectura
Sensor de luz ambiente	MDNG-6221 opción SPEF: Sí MDNG-6221 opción SNEF: No
Sensor frontal	Sí
Luminancia máxima (panel típico)	1300 cd/m ²
Luminancia calibrada DICOM	Máximo garantizado: 1000 cd/m ² Valor predeterminado de fábrica: 600 cd/m ²
Relación de contraste (panel típico)	1400:1
Tiempo de respuesta ((Tr + Tf)/2) (típico)	12.5 ms
Color de la carcasa	RAL 9003/RAL 9004
Señales de entrada de vídeo	DVI-D de doble enlace (2x) DisplayPort (2x)
Puertos USB	1 USB 2.0 ascendente (extremo) 2 USB 2.0 descendentes
Calificación de potencia	24 VCC; 5 A; 5 VCC; 0,1 A
Requisitos de alimentación	Este dispositivo solo debe recibir energía por las siguientes fuentes de alimentación médicas aprobadas: Tecnología de adaptador, tipo CMD160-P240 Valores nominales marcados en la toma de alimentación médica: ■ Potencia de entrada: 100–240 V CA, 1,9–0,8 A, 50/60 Hz ■ Potencia de salida: 24 V CC, 6,3 A; 5 V CC, 0,5 A
consumo de potencia	60 W (nominales)
Dimensiones con pie (An x Al x P)	Vertical: 378 x 528~628 x 235 mm Horizontal: 491 x 472~572 x 235 mm
Dimensiones sin pie (An x Al x P)	Vertical: 378 x 491 x 81 mm Horizontal: 491 x 378 x 81 mm
Dimensiones embalaje (An x Al x P)	500 x 280 x 670 mm
Peso neto con pie	MDNG-6221 opción SPEF: 11,6 kg MDNG-6221 opción SNEF: 10,2 kg
Peso neto sin pie	MDNG-6221 opción SPEF: 6,6 kg MDNG-6221 opción SNEF: 5,2 kg

Especificaciones del producto**NIO GRAY 5.8MP (MDNG-6221)**

Peso neto embalado	MDNG-6221 opción SPEF: 17,0 kg (sin accesorios opcionales) MDNG-6221 opción SNEF: 15,7 kg (sin accesorios opcionales)
Inclinación	De -10° a +30°
Eje giratorio	De -45° a +45°
Pivote	90°
Rango de ajuste de altura	100 mm
Montaje estándar	VESA (100 mm)
Protección de la pantalla	MDNG-6221 opción SPEF: cubierta protectora de cristal antirreflectante MDNG-6221 opción SNEF: N/A
Modalidades recomendadas	Todas las imágenes digitales, incluida la mamografía digital y la tomosíntesis mamaria
Certificaciones	CE1639 (Dispositivo médico) FDA 510(k) K170476 CCC (China), KC (Corea), Inmetro (Brasil), BIS (India), EAC (Rusia, Kazajistán, Bielorrusia, Armenia y Kirguistán) pendiente Seguridad específica: IEC 60950-1:2005 + A1:2009 EN 60950-1:2006 + A1:2010 + A11:2009 + A12:2011 + A2:2013 IEC 62368-1:2018 EN IEC 62368-1:2020 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 n.º. 60601-1:14 Específico de EMI: IEC 60601-1-2:2014 (ed4) EN 60601-1-2:2015 (ed4) FCC parte 15 Clase B ICES-001 Nivel B VCCI (Japón) Ambiental: Etiqueta energética de China, RoHS de la UE, RoHS de China, REACH, Salud de Canadá, WEEE, Directiva de embalaje
Accesorios suministrados	Guía del usuario Disco de documentación Hoja de sistema Cable de vídeo (1 x DisplayPort) Cables principales Cable USB 2.0 Toma de alimentación externa
Accesorios opcionales	Controlador de pantalla
Software QA	QAWeb
Garantía	5 años, incluida garantía de retroiluminación de 40.000 horas
Temperatura operativa	De 0 °C a 40 °C (de 15 °C a 30 °C conforme a especificaciones)
Temperatura de almacenamiento	De -20 °C a +60 °C
humedad de trabajo	De 8 % a 80 % (sin condensación)
humedad de almacenaje	De 5 % a 85 % (sin condensación)
Presión de funcionamiento	70 kPa mínimo
Presión de almacenamiento	De 50 a 106 kPa

Generado en: 03 Nov 2023Las especificaciones técnicas pueden estar sujetas a cambios sin previo aviso. Consulte www.barco.com para obtener la información más actual.