

Mammo Tomosynthesis 5MP (MDMG-5221)

5 MegaPixel display system for digital breast imaging, including breast tomosynthesis



- **For multi-frame mammography & breast tomosynthesis**
- **Eliminates motion blur**
- **With hot light button for extra brightness**

Optimized for digital breast tomosynthesis

Barco's Mammo Tomosynthesis 5MP has been developed to optimize reading and interpretation of digital breast tomosynthesis, a groundbreaking imaging modality that significantly improves accuracy of breast cancer detection. Its unique technologies for tomosynthesis visualization increase conspicuity of the smallest details, providing radiologists with a new degree of diagnostic confidence. The Mammo Tomosynthesis 5MP is the first display system available for breast tomosynthesis. It is cleared by the US Food and Drug Administration (FDA) for use in standard and multi-frame digital mammography as well as breast tomosynthesis.

Quick readings, exceptional results

The Mammo Tomosynthesis 5MP ensures instant delivery of images without motion blur, increasing correct diagnosis and swift workflow.

Bright images, more details

Featuring twice the brightness of conventional systems and lasting twice as long, the Mammo Tomosynthesis 5MP offers unrivalled image precision and visibility of the most subtle details.

Less noise, improved accuracy

Screen noise often hides subtle details. That's why the Mammo Tomosynthesis 5MP ensures pixel-perfect images without disturbing screen noise, offering clearer visibility of differences in tissue density.

Guaranteed compliance, diagnostic confidence

Automated checks of contrast and luminance, in combination with an online calibration service, result in an optimal working environment and worry-free readings.

- RapidFrame™: RapidFrame technology counteracts motion blur when scrolling through a stack of images due to a high pixel refresh rate.

- Per Pixel Uniformity™: PPU measures and adjusts the luminance of each pixel, making every pixel permanently DICOM compliant.
- SmoothGray™: SmoothGray generates ultra-precise representations of grayscale images and eliminates quantization artifacts, reducing the overall noise in the images.
- DuraLight Nova™: the DuraLight Nova backlight ensures a diagnostic luminance of 1,000 cd/m². In addition, they last twice as long without increasing power consumption.
- I-Luminate™: a push on the 'hot light' I-Luminate button will temporarily boost display brightness, allowing inspection of subtle details or comparison of digital exams with film-based priors.
- I-Guard™: the integrated I-Guard sensor continually guards and adjusts the luminance output of the display, ensuring continuous compliance with the DICOM standard.
- QAWeb: the innovative MediCal QAWeb system is an easy-to-use, web-based tool for automated calibration and Quality Assurance.
- Adjustable dual-head stand: the dual-head stand allows users to angle the displays to fit their preferred position for optimum viewing.
- 5-year warranty: the Mammo Tomosynthesis 5MP is covered by a standard 5-year warranty.

Product specificaties**MAMMO TOMOSYNTHESIS 5MP (MDMG-5221)****General specifications**

Scherntechnologie	IPS-TFT LCD
Actief schermformaat (diagonaal)	541 mm (21.3')
Formaat actief scherm (H x V)	338 x 422 mm (13.3 x 16.6")
Beeldverhouding (H:V)	4:5
Resolutie	5MP (2048 x 2560 pixels)
Pixelpitch	0.165 mm
Grijsbeeldvorming	Yes
Bit depth	10 bit
Kijkhoek (H, V)	178°
Uniform Luminance Technology (ULT)	Gray PPU
Omgevingslichtcompensatie (OLC)	Yes, reading room selection
Ambient light sensor	Yes
Backlight Output Stabilization Technology (BLOS)	Yes
Voorsensor	Yes, I-Guard
Maximale luminantie (paneel standaard)	2100 cd/m ²
DICOM-gekalibreerde luminescentie	1000 cd/m ²
Contrastverhouding (paneel standaard)	950:1
Reactietijd (stijgtijd + valtijd) (standaard)	15 ms
Kleur behuizing	Gray
Video-ingangssignalen	DVI-D Dual Link DisplayPort
USB-poorten	1x USB 2.0 upstream (endpoint) 3x USB 2.0 downstream
Voedingsvereisten	External power supply (100-240 Vac, 50-60 Hz)
Energieverbruik	57 W (nominal) < 0.7 W (standby)
OSD-talen	English, German, French, Dutch, Spanish, Italian, Portuguese, Polish, Russian, Swedish, Chinese (simplified), Japanese, Korean, Arabic
Afmetingen met standaard (B x H x D)	Single Head: N/A Dual Head System: 784 x 561~661 x 265 mm
Afmetingen zonder standaard (B x H x D)	Single Head: 392 x 485 x 122 mm Dual Head System: N/A
Afmetingen verpakt (B x H x D)	Single Head: 692 x 550 x 266 mm Dual Head System: 950 x 585 x 710 mm
Nettogewicht met standaard	Single Head: N/A Dual Head System: 30.1 kg
Nettogewicht zonder standaard	Single Head: 10.5 kg Dual Head System: N/A
Nettogewicht verpakt	Single Head: 16.9 kg (without stand) Dual Head System: 50 kg (with stand)
Kanteling	-5° to +25°
Zwenking	-30° to +30°
Roteren	N/A
Hoogteregelbereik	100 mm
Montagestandaard	VESA (100 mm)
Bescherming van het scherm	Protective, anti-reflective glass cover
Aanbevolen procedures	All digital images, including digital mammography

Product specificaties

MAMMO TOMOSYNTHESIS 5MP (MDMG-5221)

Certificeringen	FDA 510(K) K161229 for General Radiology CE1639 (MDD 93/42/EEC; A1:2007/47/EC class IIb product) CCC (China), KC (Korea), Inmetro (Brazil), BIS (India) Safety specific: IEC 60950-1:2005 + A1:2009 EN 60950-1:2006 + A1:2010 + A11:2009 + A12:2011 + A2:2013 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 No. 60601-1:14 EMI specific: IEC 60601-1-2:2014 (ed4) EN 60601-1-2:2015 (ed4) FCC part 15 Class B ICES-001 Level B VCCI (Japan) Environmental: China Energy Label, EU RoHS, China RoHS, REACH, Canada Health, WEEE, Packaging Directive
Meegeleverde accessoires	User guide Quick install sheet Documentation disc System disc Video cables (2x DisplayPort) Two sets of mains cables (UK, European (CEBEC/KEMA), USA (UL/CSA: adaptor plug NEMA 5-15P), Chinese (CCC)) Two USB 2.0 cables Two external power supplies Film clip Keyboard light
Optionele accessoires	Additional film clip (V622784) Additional keyboard light (B4100574) Graphics board
Software voor kwaliteitsgarantie	MediCal QAWeb
Garantie	5 years, including 50000 hours backlight warranty
Bedrijfstemperatuur	0 °C to 35 °C (20 °C to 30 °C within specs)
Opslagtemperatuur	-20 °C to 60 °C
Vochtigheid in bedrijf	8% to 80% (non-condensing)
Vochtigheid bij opslag	5% to 85% (non-condensing)
Bedrijfsdruk	70 kPa minimum
Opslagdruk	50 to 106 kPa

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