

# 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.

**PRODUCT SPECIFICATIONS****MAMMO TOMOSYNTHESIS 5MP (MDMG-5221)**

Screen technology	IPS-TFT LCD
Active screen size (diagonal)	541 mm (21.3")
Active screen size (H x V)	338 x 422 mm (13.3 x 16.6")
Aspect ratio (H:V)	4:5
Resolution	5MP (2048 x 2560 pixels)
Pixel pitch	0.165 mm
Color imaging	No
Gray imaging	Yes
Bit depth	10 bit
Viewing angle (H, V)	178°
Uniform Luminance Technology (ULT)	Gray PPU
Ambient Light Compensation (ALC)	Yes, reading room selection
Ambient light sensor	Yes
Backlight Output Stabilization (BLOS)	Yes
Front sensor	Yes, I-Guard
Maximum luminance (panel typical)	2100 cd/m <sup>2</sup>
DICOM calibrated luminance	1000 cd/m <sup>2</sup>
Contrast ratio (panel typical)	950:1
Response time (Tr + Tf) (typical)	15 ms
Housing color	Gray
Video input signals	DVI-D Dual Link DisplayPort
USB ports	1x USB 2.0 upstream (endpoint) 3x USB 2.0 downstream
Power requirements	External power supply (100-240 Vac, 50-60 Hz)
Power consumption	57 W (nominal) < 0.7 W (standby)
OSD languages	English, German, French, Dutch, Spanish, Italian, Portuguese, Polish, Russian, Swedish, Chinese (simplified), Japanese, Korean, Arabic
Dimensions with stand (W x H x D)	Single Head: N/A Dual Head System: 784 x 561~661 x 265 mm
Dimensions w/o stand (W x H x D)	Single Head: 392 x 485 x 122 mm Dual Head System: N/A
Dimensions packaged (W x H x D)	Single Head: 692 x 550 x 266 mm Dual Head System: 950 x 585 x 710 mm
Net weight with stand	Single Head: N/A Dual Head System: 30.1 kg
Net weight w/o stand	Single Head: 10.5 kg Dual Head System: N/A
Net weight packaged	Single Head: 16.9 kg (without stand) Dual Head System: 50 kg (with stand)
Tilt	-5° to +25°
Swivel	-30° to +30°
Pivot	N/A

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Height adjustment range	100 mm
Mounting standard	VESA (100 mm)
Screen protection	Protective, anti-reflective glass cover
Recommended modalities	All digital images, including digital mammography
Certifications	CE0120 (MDD 93/42/EEC; A1:2007/47/EC class IIb product), CE - 2014/30/EU, CE - 93/42/EEC; A1:2007/47/EC class II b, IEC 60950-1:2005 + A1:2009 (2ND EDITION), IEC 60601-1:2005, ANSI/AAMI ES 60601-1:2005 + C1:2009, CAN/CSAC22.2 No. 60601-1-08:2008, DEMKO - EN 60601-1:2006, EN 60601-1-2:2007, CCC - GB9254-2008 + GB4943.1-2011 + GB17625.1-2012, KC, VCCI, FCC class B, ICES-001 Level B, FDA 510K, RoHS
Supplied accessories	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
Optional accessories	Additional film clip (V622784) Additional keyboard light (B4100574) Graphics board
QA software	MediCal QAWeb
Warranty	5 years, including 50000 hours backlight warranty
Operating temperature	0 °C to 35 °C (20 °C to 30 °C within specs)
Storage temperature	-20 °C to 60 °C
Operating humidity	8% to 80% (non-condensing)
Storage humidity	5% to 85% (non-condensing)
Operating pressure	70 kPa minimum
Storage pressure	50 to 106 kPa

Last updated: 17 May 2017

Technical specifications are subject to change without prior notice. Please check [www.barco.com](http://www.barco.com) for the latest information.