

# Mammo Tomosynthesis 5MP (MDMG-5221)

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



## 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.

**BARCO**

Visibly yours

# Mammo Tomosynthesis 5MP (MDMG-5221)

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



## **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)**

<b>Screen technology</b>	TFT AMLCD Dual Domain IPS WideView
<b>Active screen size (diagonal)</b>	541 mm (21.3")
<b>Active screen size (H x V)</b>	337.9 x 422.4 mm (13.3 x 16.6")
<b>Aspect ratio (H:V)</b>	4:5
<b>Resolution</b>	5MP (2048 x 2560)
<b>Pixel pitch</b>	0.165 x 0.165 mm
<b>Color imaging</b>	No
<b>Gray imaging</b>	Yes
<b>Number of grayscales (LUT in/LUT out)</b>	1024 gray levels (10/12)
<b>Viewing angle (H, V)</b>	176°
<b>Per Pixel Uniformity (PPU)</b>	Yes
<b>RapidFrame technology</b>	Yes
<b>I-Luminate button</b>	Yes
<b>Ambient Light Compensation (ALC)</b>	Yes
<b>I-Guard</b>	Yes
<b>Maximum luminance</b>	2100 cd/m <sup>2</sup>
<b>DICOM calibrated luminance (ULT off)</b>	1000 cd/m <sup>2</sup>
<b>Contrast ratio (dark reading room, typical)</b>	950:1
<b>Response time (Tr + Tf)</b>	15 ms (typical)
<b>Scanning frequency (H; V)</b>	30-150 kHz; 15-80 Hz
<b>Housing color</b>	Gray
<b>Video input signals</b>	DP, DVI
<b>Video inout terminals</b>	NA
<b>USB ports</b>	1 upstream + 1 endpoint, 2 downstream
<b>USB standard</b>	2.0
<b>Power requirements (nominal)</b>	100-240 V
<b>Power consumption (nominal)</b>	125 W
<b>Power save mode</b>	Yes
<b>Power management</b>	DVI-DMPM
<b>Dot clock</b>	280 Mhz
<b>OSD languages</b>	English, French, German, Italian, Spanish
<b>Dimensions with stand (W x H x D)</b>	392 x 558 x 250 mm
<b>Dimensions w/o stand (W x H x D)</b>	392 x 484 x 123 mm
<b>Dimensions packaged (W x H x D)</b>	780 x 550 x 261 mm
<b>Net weight with stand</b>	15.4 kg
<b>Net weight w/o stand</b>	10.9 kg
<b>Net weight packaged w/o stand</b>	17.3 kg
<b>Height adjustment range</b>	100 mm
<b>Tilt</b>	-5° / +24°
<b>Swivel</b>	-45° / +45°
<b>Pivot</b>	90°
<b>Mounting standard</b>	VESA (100 mm)
<b>Screen protection</b>	Protective, non-reflective glass cover
<b>Recommended modalities</b>	breast tomosynthesis, mammography, CT, MR, US, DR, CR, NM, Film

**Product specifications****Mammo Tomosynthesis SMP (MDMG-5221)**

<b>Certifications</b>	UL 60601-1 2ND EDITION, CAN/CSA-C22.2 NO. 601.1-M90:2005, IEC 60601-1 2ND ED:1988 + A1:1991 + A2:1995, IEC 60950-1:2005 2ND EDITION, CE - 2004/108/EC, CE - 93/42/EC, A1:2007/47/EC CLASS IIB, DEMKO - EN 60601-1, CCC - GB9254-2008 + GB4943-2001 + GB17625.1-2003, BSMI - CNS13438(95) + CNS14336(94), KC, VCCI, FCC class B; FDA 510(k), RoHS
<b>Supplied accessories</b>	User manual, Video cable (DisplayPort), Main cables (UK, European (CEBEC/KEMA), USA (UL/CSA; adaptor plug NEMA 5-15P), Chinese (CCC)), USB cable, external power supply, film clip, keyboard light
<b>Optional accessories</b>	NA
<b>QA software</b>	MediCal QAWeb
<b>Units per pallet</b>	NA
<b>Pallet dimensions (W x H)</b>	NA
<b>Warranty</b>	5 years
<b>Color support</b>	NA
<b>Uniform Luminance Technology (ULT)</b>	Yes