

# MD-4221

## 42-inch High Definition LCD display for the operating room



### MD-4221 at a glance:

- High-bright LCD panel (IPS) with Full HD resolution
- Medically certified (safety and EMC)
- Built-in DICOM LUT for PACS imaging
- 10-bit color depth (>1 billion colors)
- Smooth, artifact-free video images
- Fan-less design for minimum risk of contamination
- Anti-reflective protective front glass
- Remote control over RS232

The Barco MD-4221 is a 42-inch Full High Definition (1920 x 1080) monitor designed and certified for use in the digital operating room. The versatile display can visualize a wide range of analog and digital video sources, including HD endoscopic video, room and boom camera video, patient and surgery information, radiology and pathology images, with ultimate detail. Thanks to its outstanding image processing and very fast response time, the display presents moving surgery images smoothly, accurately and without artifacts.

Fitted with a 10-bit high-contrast LCD panel and a built-in DICOM Look-Up Table, the MD-4221 is optimal for consulting PACS images in the OR.

The MD-4221 lets you combine two images - in any mix of data and video - next to each other or as Picture-In-Picture. Its wide viewing angle of 178° ensures that all this information is clearly visible for everyone in the surgery suite.

An anti-reflective protective front glass allows the monitor to be cleaned and disinfected (IPX1 compliant), while its fan-less design avoids the spread of contaminants in the operating room.

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## Technical specifications

<b>LCD Panel</b>	<b>MD-4221</b>
Technology	TFT LCD
Native resolution	1920 x 1080 (full HD)
Active screen diagonal	42" (1067 mm)
Active screen area	930 x 523 mm (36.62" x 20.60")
Pixel pitch	0.485 x 0.485 mm
<b>Visual characteristics</b>	
Maximum luminance	500 cd/m <sup>2</sup>
Contrast ratio	1400:1
Aspect ratio	16:9
Viewing angle (CR >10)	178°/178°
Color depth	10 bit (1.06 billion colors)
Response time (G-G)	5 ms
Display functions	Gamma, DICOM
<b>Connectivity and control</b>	
Video inputs	DVI, VGA, S-Video, Composite Video, Component Video, RGBHV, (HD)SDI
Video outputs	DVI, (HD)SDI
Supported resolutions	On Composite, S-Video and Component inputs : PAL-SECAM 576i, NTSC 480i On Component input : PAL-SECAM 576i, NTSC 480i; 1080i/p up to 60Hz On DVI, VGA & RGBHV inputs : VGA up to UXGA; HDTV 720p, 1080 i/p up to 60 Hz On (HD)SDI : 480i, 576i, 720p, 1035i, 1080i up to 60Hz; 1080p up to 30 Hz
Control	RS232, IR Remote Control, OSD
Picture-In-Picture	Picture-In-Picture; Picture-by-Picture (source max 162 MHz)
<b>Power requirements</b>	
Internal power supply	90 V - 264 V (50Hz - 60Hz)
Standby power	< 17 W
Power consumption	< 260 Watts
<b>Environmental</b>	
Operating temp. (min-max)	5° to 40°C (41° to 104°F)
Humidity	5% - 90% (no condensation)
<b>Approvals</b>	
Emission	EN 60601-1-2; FCC-B; ICES-001; VCCI; KETI; BSMI
Safety	CE EN60601-1; UL 60601-1; c-UL; KETI; PSE; VCCI
	MDD 93/42/EEC Class I
<b>Mechanical characteristics</b>	
Protective cover	High-quality anti-reflective protective front glass
Dimensions (W x H x D)	1023.5 x 616.5 x 104.5 mm (40.30 x 24.27 x 4.11 inch)
Display weight	29 kg (64 lbs)
Mounting	VESA MIS F; 600, 200, 8 - Optional wall mount
Display stand	Optional

### Connectivity:



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