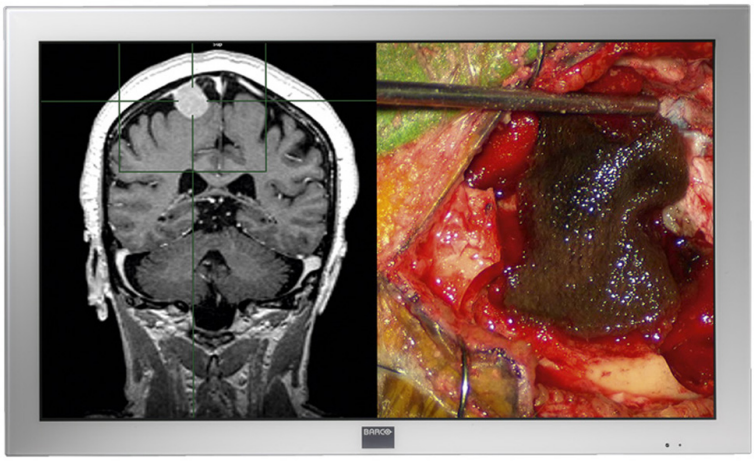
MDSC-2242

42-inch full HD large-screen surgical display



Barco's MDSC-2242 is a 42-inch large-screen surgical display with LED backlight, featuring full HD resolution. Purpose-built for the operating room, the MDSC-2242 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.

Color-calibrated, artifact-free images

Thanks to its high brightness, high contrast and high resolution, the MDSC-2242 presents surgeons with accurate, realistic images and excellent depth perception. It also offers the fastest, lag-free transmission of surgical images and the highest image quality available today.

Our next-generation motion adaptive de-interlacing and noise reduction algorithms, using full 10-bit image processing and a 12-bit look-up table, make the MDSC-2242 ideal for consulting PACS images in the OR.

Multi-source, multi-display imaging over IP

With its broad input connectivity, the MDSC-2242 offers the highest flexibility for multi-modality imaging (PiP & PaP), enabling reproduction of images from multiple sources and to multiple displays in the integrated operating room.

The 42-inch display is one of Barco's network-enabled surgical displays and offers integrated functionality (optional) for use with Nexxis digital OR, ensuring smooth distribution of uncompressed video and data over the IP network without delay.

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Visibly yours

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Designed for use in the operating room

Barco's MDSC-2242 allows easy cleaning and disinfection thanks to its anti-reflective protective front glass.

The fan-less design avoids the spread of contaminants in the operating room.

Product specifications	MDSC-2242
Screen technology	TFT AM LCD with LED backlight
Active screen size (diagonal)	1067 mm (42")
Active screen size (H x V)	930 x 523 mm (36.6" x 20.6")
Aspect Ratio	16:9
Resolution	2MP (1920 x 1080)
Pixel pitch	0.4845 mm
Color imaging	Yes
Color support	1073 million (10-bit)
Color gamut	72% NTSC
Viewing angle	178° Hor / 178° Ver
Maximum luminance	500 cd/m² (typical)
Contrast ratio	4000:1 (typical)
Response time	8 msec (GtG - typ)
Dot clock	(max) 165 Mhz
Gamma curve	Native, 1.8, 2.0, 2.2, 2.4, X-ray
Housing color	White RAL 9003
Video inputs	Video input signals: -DVI-I Single-Link (Digital & Analog – HDMI video support with HDCP) -Component Video RGBS / YPbPr (4xBNC) -S-video (4-pin Mini DIN) -Composite video (1xBNC) -3G-SDI (1xBNC) -DisplayPort (VESA std 1.1a) -Optional: integrated Nexxis network adapter Video input formats: -VGA & DVI: Up to 1920x1200 at 60Hz (reduced blanking) Maximum pixel clock: 165MHz Maximum Hor freq: 90kHz Maximum Ver freq: 75Hz -Standard PAL and NTSC for S-Video, Composite and Component -Component YPbPr/ RGBS: HDTV - up to 1080i & 1080p -SDI Format Supported: 625/25 PAL, 525/29.97 NTSC, 1080i50, 1080i59.94, 1080i60, 720p50, 720p59.94, 720p60, 1080p50, 1080p59.94, 1080p60 -SDI Compliance: SMPTE 425M (Level A), SMPTE 424M, SMPTE 292M, SMPTE 259M-C, SMPTE 296M, ITU-R BT.656, ITU-R BT.601 -Displayport 1.1a: up to 1920 x 1200 60Hz
Video outputs	DVI-D S-video (4-pin Mini DIN) Composite video (1xBNC) 3G-SDI (1xBNC)
Visualization modes	Picture-in-Picture, Picture-by-Picture, Zoom
Display controls	OSD menu / Infrared remote control / serial RS-232 interface (D-sub 9-pin)
Power requirements (nominal)	Power source (integrated power supply): 100 – 250 VAC / 47-63 Hz auto-switch Power supply for external module: +5VDC ±10% @500mA (max) through the DVI connectors DVI-in & DVI-out
Power consumption (nominal)	less than 150 W
OSD languages	English, French, German, Spanish, Italian
Dimensions w/o stand (W x H x D)	1015 x 608 x 90 mm (40" x 23.9" x 3.5")
Net weight w/o stand	24 kg (52.9 lbs)
Net weight packaged w/o stand	30 kg (66.1 lbs)
Mounting standard	VESA 600 and 200
Screen protection	IP21 / Front face: IPx5 Protective, non-reflective tempered glass
Recommended modalities	Endoscopy, Laparoscopy, X-ray, CT, MR, US

Product specifications	MDSC-2242
Regulation Compliance	IEC60601 3rd Edition Approvals/Marking: CE, C-UL-US, DEMKO Safety (Medical equipment): IEC60601-1, UL60601-1, CSA-C22.2 nr 601-1-M90 Electromagnetic Compatibility: EMC Medical EMC Standards: IEC60601-1-2, EN55011 /CISPR 11, FCC CFR47 part 15 & 18/Class A Environment: ROHS-2, REACH, WEEE compliant
Temperature	Operating: 0° - 40° C / Storage: -20° - 60° C
Humidity	Operating: 10% – 90% R.H. / Storage: 5% – 90% R.H.
Keyboard/mouse	7-key membrane, side-right
Supplied accessories	User Manual, Infrared Remote Control, DVI Dual-Link cable 3.0m, Mains cables (EU (CEBEC/KEMA) & US (Hospital grade UL))
Optional accessories	wall mount
Warranty	3 years

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Technical specifications are subject to change without prior notice.
Please check www.barco.com for the latest information.