MDSC-2324

Full HD 24-inch surgical display

- DICOM
- BLOS
- APPROVED
- OSD
- 10 BIT
- COVER
- WIDE VIEW
- DISPLAYPORT
- CLEANABLE
- LED TECHNOLOGY
- WUXGA 1920 X 1200
- 24" SCREEN

- **For the best hand-eye coordination**

- **Allows for easy cleaning and disinfection**

- **Works with Nexxis for video-over-IP integration**

Barco's MDSC-2324 is a 24-inch near-patient surgical display with LED backlight, featuring full HD resolution and a wide color gamut. Purpose-built for the operating room, the MDSC-2324 offers an easy-clean design, smart mechanics and the most detailed images in the procedure room today.

Color-calibrated, artifact-free images

Thanks to its high brightness, high contrast and high resolution, the MDSC-2324 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, are your guarantee for detailed, sharp, and noise-free pictures, so you can detect the most subtle changes in tissue color.

Multi-source, multi-display imaging over IP

With its broad input connectivity, the MDSC-2324 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 24-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.

Designed for use in the operating room

Barco's MDSC-2324 allows easy cleaning and disinfection thanks to its smooth surface, splash-proof housing, and front screen protection (IP45). The fan-less design avoids the spread of contaminants.

BARCO

The display comes with a smart cable management system that hides the cables for a clutter-free set-up. It is light and compact, allowing easy (dual-monitor) mounting on surgical booms and spring arms.

Barco's MDSC-2324 features:

- 24" wide-screen LCD

- Full HD resolution

- Wide viewing angle

- High-brightness LED backlight

- Advanced, full 10-bit, image processing algorithms for artifact-free video reproduction

- Widest range of SD and HD input signals, including 3G-SDI and DisplayPort

- Calibrated for perfect color and grayscale reproduction (ITU 709 and DICOM standards)

- Easy cleaning thanks to full size protection screen and smooth design without gaps

- Easy cable management allowing hiding of cables in a flexible back cover

- Lightweight for easy mounting on spring arms

PRODUCT SPECIFICATIONS	MDSC-2324
Screen technology	TFT AM LCD
Active screen size (diagonal)	611 mm (24.1")
Active screen size (H x V)	518 x 324 mm (20.4 x 12.7")
Aspect ratio	16:10
Resolution	W-UXGA (1920 x 1200)
Pixel pitch	0.270 mm
Color support	1073 million (10-bit)
Color gamut	Wide gamut (Adobe RGB 1998)
Viewing angle	178° (panel typical)
Maximum luminance	400 cd/m² (panel typical)
Contrast ratio	1500:1 (panel typical)
Response time (Tr + Tf)	18 ms (typical)
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 BARCO 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)
Power requirements (nominal)	Power source for external power supply: 100 – 250 VAC / 47-63 Hz auto-switch Power source for display power input: +24 VDC / 2.3A (LED and DDI version), 3.2A (MNA version) Power supply for external module: +5VDC $\pm$10% @500mA (max) through the DVI connectors DVI-in & DVI-out (on pin 14 or pin 16 -OSD programmable)
Power consumption	55W max (LED and DDI version) 75W max (MNA version)
Power management	DVI-DMPM states supported Power On state Active-Off state
Dot clock	165 MHz max (DVI)
Gamma curve	Native, 1.8, 2.0, 2.2, 2.4, DICOM
OSD languages	English, French, German, Spanish, Italian
Dimensions w/o stand (W x H x D)	595 x 414 x 84 mm (23,4" x 16,3" x 3,3")
Dimensions power supply (W x H x D)	210 x 103 x 52 mm (8,27" x 4,06" x 2,05")

PRODUCT SPECIFICATIONS	MDSC-2324
Dimensions packaged (W x H x D)	712 x 605 x 178 mm (28,03" x 23,82" x 7,01")
Net weight w/o stand	8.0 kg (17.6 lbs) 9.6 kg (21.2 lbs) including power supply and accessories
Net weight power supply	1.5 kg (3.31 lbs)
Net weight packaged w/o stand	12.5 kg (27.6 lbs)
Power supply DC output cable length	2.5 m (8.2 ft)
Mounting standard	VESA (100 x 100 mm)
Screen protection	Protective, non-reflective PMMA cover
Recommended modalities	Endoscopy, Laparoscopy, PACS, PM, US, CT, MR
Certifications	CE (Medical Device Class I) EN 60601-1: 2006 + A1:2013 + A12:2014 (Medical Electrical Equipment – Part 1: General Requirements for Safety) IEC 60601-1: 2012 Edition 3.1 (Medical Electrical Equipment – Part 1: General Requirements for Basic Safety and Essential Performance) IEC 60601-1-6 (Ed. 3); Am1 ANSI/AAMI ES 60601-1:2005/(R)2012 and A1:2012, C1:2009/(R)2012 and A2:2010/(R)2012 (Medical Electrical Equipment – Part 1: General Requirements for Basic Safety and Essential Performance) CAN/CSA-C22.2 No. 60601-1: 14 (Medical Electrical Equipment – Part 1: General Requirements for Basic Safety and Essential Performance (Harmonized with Ed. 3.1) CCC: GB9254-2008 + GB4943.1-2011 + GB17625.1-2012 BIS (except for MNA version): IS13252 (PART1):2010 +A1:2013 +A2:2015 INMETRO IEC 60601-1-2: 2014 EN 60601-1-2: 2015 EN 55011/CISPR11 (MNA version: Class A, LED and DDI version: Class B) FCC CFR 47 Part 15 Subpart B (MNA version: Class A, LED and DDI version: Class B) RoHS compliant IP21 (IP45 front side only)
Supplied accessories	1x DVI-D video cable 1x printed User Guide (English) 1x documentation disc, containing all translations of the User Guide 1x external power supply 4 screws, 4 dented washers and an Allen key Mains cables
Optional accessories	Barco stand (K9302097A) Power extension cable 10m (K3495066) Power extension cable 30m (K3495068)
Warranty	3 years
Operating temperature	10 ~ 35°C for performance / 0 ~ 40°C for safety
Storage temperature	-20 ~ +60°C
Operating humidity	10 ~ 90% (non-condensing)
Storage humidity	10 ~ 90% (non-condensing)
Operating altitude	3000 m max
Storage altitude	12000 m max

Last updated: 23 Apr 2020

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

ENABLING BRIGHT OUTCOMES

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