MDSC-8255

4K UHD large-screen surgical display

12G READY	**3Y** WARRANTY	DISPLAYPORT	BLOS
DICOM	GLASS COVER	CLEANABLE	**30** BIT COLOR
WIDE ANGLE	**55"** SCREEN	APPROVED	**4K** UHD
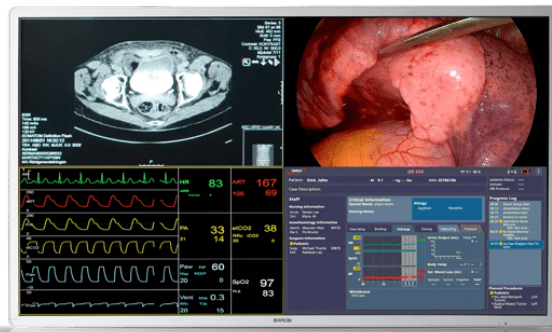
- **55-inch wide-screen color LCD with Quad Full HD resolution**

- **Wide viewing angle**

- **Advanced image processing algorithms**

- **BT.2020 compatible**

- **12G-SDI and Quad-link 3G-SDI signals accepted**

Barco's MDSC-8255 is a 55-inch surgical display purpose-built for ultra-high resolution, multi-image viewing in the digital operating room. Thanks to its high quality video performance and lightweight housing with shallow depth and thin bezel, it's the ideal complement of any advanced video distribution system in the OR.

Large-screen 4K UHD resolution display for referral imaging

A future-proof choice for referral imaging in the OR, the MDSC-8255 can present information previously shown on four 27" monitors on one large screen, with all four images in full HD. Thanks to the integrated 4K decoder (optional) it offers seamless integration with Barco's Nexxis video-over-IP solution.

Wall-mount flexibility

With its protective front glass, shallow depth, thin bezel and light weight the MDSC-8255 is perfect for wall mounting.

Delivering image quality on large screens

Color-calibrated, artifact free images in 4K resolution: the MDSC-8255 presents surgeons with accurate, realistic images and excellent depth perception. Advanced video processing features and noise reduction algorithms, and a full 10-bit image processing chain make this display ideal for consultation of any kind of medical referral images inside the OR.

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Product specifications — MDSC-8255

General specifications

Screen technology	TFT AM LCD / IPS technology / LED backlight
Active screen size (diagonal)	54,6" / 1388 mm
Active screen size (H x V)	1210 x 640 mm
Aspect ratio	16:9
Brightness	Max: 500 cd/m² (typ.) @6500K : 300 cd/m² stabilized (typ.)
Resolution	3840 x 2160
Pixel pitch	0.315 mm
Color support	1073 million (10-bit)
Color calibration	ITU-709, DCI-P3, BT.2020
Viewing angle	178° Hor / 178° Ver
Remote control	MDSC-8255 LED & 12G micro-USB port for FW download & control protocol MDSC-8255 MNA FW download through network connection
Contrast ratio	1100:1 (max.)
Response time	Gray-to-Gray = 8 msec (typ.)
White point	Calibrated: 5600K, 6500K, 7600K, 9300K
Electro-Optical Transfer Function (EOTF)	Native, Gamma 1.8 -2.2 -2.4, Video, DICOM
Front protection screen	Scratch-resistant 2-side AR glass
Keyboard	Membrane keyboard on side
Dimensions	1259 x 733 x 87 mm (49.5 x 28.8 x 3.4 in)
Video inputs	**MDSC-8255 LED** 4K-UHD input selectable among: 1x DP 1.1 up to 3840 x 2160 @25Hz/30Hz 2x DP 1.1 up to 1920 x 2160 @50Hz/60Hz 1x DP 1.2 MST up to 3840 x 2160 @50Hz/60Hz 2x HDMI 2.0 up to 3840 x 2160 @50Hz/60Hz FHD input (upscaled to UHD): 1x DVI 1x 3G-SDI **MDSC-8255 12G** 4K-UHD input selectable among: • Quad-link 3G-SDI up to 3840 x 2160 @50Hz/60Hz • 12G-SDI up to 3840 x 2160 @50Hz/60Hz • 1x DP 1.1 up to 3840 x 2160 @25Hz/30Hz • 2x DP 1.1 up to 2048 x 2160 @50Hz/60Hz • 1x DP 1.2 MST up to 3840 x 2160 @50Hz/60Hz • 2x HDMI 2.0 up to 3840 x 2160 @50Hz/60Hz FHD input (upscaled to UHD): • 1x DVI **MDSC-8255 MNA** 4K-UHD input selectable among: • 1x DP 1.1 up to 3840 x 2160 @25Hz/30Hz • 2x DP 1.1 up to 1920 x 2160 @50Hz/60Hz • 1x DP 1.2 MST up to 3840 x 2160 @50Hz/60Hz • 2x FO SFP+ module for 4K-UHD Nexxis link FHD input (upscaled to UHD): • 1x DVI • 1x 3G-SDI
Video outputs	MDSC-8255 LED & MNA 1x 3G-SDI (input loop through) 1x DVI (screen clone downscaled to FHD) MDSC-8255 12G 2x 12G-SDI (input loop through) 1x DVI (screen clone downscaled to FHD)
Features	Video processing optimized for low latency and noise reduction, Picture-in-Picture, Picture-by-Picture, Image Mirror and Rotation, Failover mode, Screen clone on DVI out, FHD input upscaled to UHD, Legacy signals accepted, DC Power output
Temperature	Operating: 0° ÷ 35° Storage: -20° ÷60°
Power consumption	MDSC-8255 LED: 144W (max)/ 90 ÷ 264 Vac 50Hz/60Hz MDSC-8255 12G: 162W (max)/ 90 ÷ 264 Vac 50Hz/60Hz MDSC-8255 MNA: 170W (max) / 90 ÷ 264 Vac 50Hz/60Hz Low power mode
Humidity	Operating: 10% ÷ 90% R.H. Storage: 5% ÷ 90% R.H.
Net weight display	MDSC-8255 LED: 33.2 kg (73.1 lbs) MDSC-8255 MNA: 34.2 kg (75.3 lbs) MDSC-8255 12G: 33.5 kg (73.8 lbs)
Green compliance	ROHS-3, REACH, WEEE
Net weight packaged	MDSC-8255 LED: 39.7 kg (87.5 lbs) MDSC-8255 MNA: 41.2 kg (90.8 lbs) MDSC-8255 12G: 40.6 kg (89.5 lbs)

Product specifications	MDSC-8255
Mounting standard	VESA 200x200 & 600x200 mm
Certifications	■ ANSI/AAMI ES60601-1 (2005 + C1:09 + A2:10 + A1:2014
	■ CAN/CSA-C22.2 No. 60601-1 (2014)
	■ IEC 60601-1:2005 (Third Edition) + CORR. 1:2006 + CORR. 2:2007 + A1:2012
	■ EN 60601-1: 2006 + CORR:2010 + A1:2013 + A12:2014
	■ Electromagnetic Compatibility: EMC Medical EMC Standards: IEC 60601-1-2 (2014), EN 60601-1-2 (2015) EN55011 /CISPR 11, FCC CFR47 Part 15 Subpart B (Class B)
	■ GB17625.1-2012; GB4943.1-2011; GB/T9254-2008
	■ Approvals/Marking: CE, c-UL-us, DEMKO, CCC, INMETRO, EAC
	■ The products comply with the Safety and performance requirements of Regulation (EU) 2017/745 (MDR)
Protection rating	IP20 (IP45 front side)
Warranty	3 years

Last updated: 18 Mar 2024

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