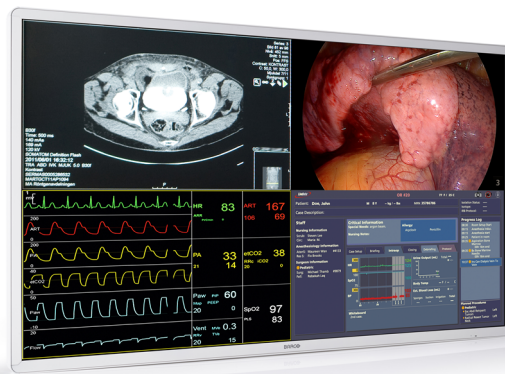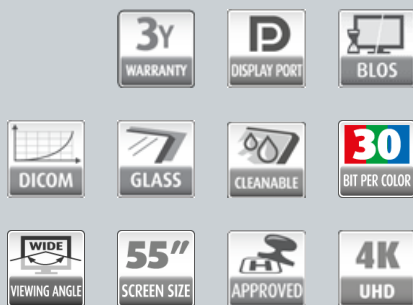# MDSC-8255

4K UHD large-screen surgical display

- **55-inch wide-screen color LCD with Quad Full HD resolution**

- **Wide viewing angle**

- **Advanced image processing algorithms**

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. Also available without protective glass for in-wall installation.

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
Display 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
Resolution	3840 x 2160
Pixel pitch	0.315 mm
Color support	1073 million (10-bit)
Viewing angle	178° Hor / 178° Ver
Brightness	Max: 500 cd/m^2 (typ.) @6500K : 380 cd/m^2 stabilized (typ.)
Contrast ratio	1100:1 (max.)
Response time	Gray-to-Gray = 8 msec (typ.)
White point	Calibrated: 5600K, 6500K, 7600K, 9300K
Gamma curve	Native, 1.8, Video, 2.2, 2.4, DICOM
Front protection screen	Scratch-resistant 2-side AR glass
Keyboard	Membrane keyboard on side
Video inputs	MDSC-8255 LED 4K-UHD input selectable among: 1x DP 1.1 up to 3840 x 2160 @30Hz 2x DP 1.1 up to 1920 x 2160 @50Hz/60Hz 1x DP 1.2 MST up to 3840 x 2160 @50Hz/60Hz FHD input (upscaled to UHD): 1x DVI 1x 3G-SDI MDSC-8255 MNA Same input range as MDSC-8255 LED with the addition of: 2x FO SFP+ module for 4K-UHD Nexxis link
Video outputs	1x 3G-SDI (3G-SDI input loop-through) 1x DVI (screen clone downscaled to FHD)
Video formats	-Display Port 1.2 MST (10 bit) up to 3840x2160 @60Hz -Dual stream DP 1.1 (10-bit) up to 1920x2160 x2 @60Hz synchronized -3G-SDI (10-bit), in compliance with: SMPTE 425M (Level A), SMPTE 424M, SMPTE 292M, SMPTE 259M, SMPTE 296M, ITU-R BT.656, ITU-R BT.601 -DVI (8-bit) up to 1920x1080 @60Hz
Features	Picture-in-Picture, Image Mirror and Rotation, Failover mode, Screen clone on DVI out, FHD input upscaled to UHD, Quadview (through Barco Nexxis integrated decoder)
Remote control	MDSC-8255 LED micro-USB port for FW download & control protocol MDSC-8255 MNA FW download through network connection
Power consumption	MDSC-8255 LED: 120W (max)/ 90 ÷ 264 Vac 50Hz/60Hz MDSC-8255 MNA: 170W (max) / 90 ÷ 264 Vac 50Hz/60Hz Low power mode MDSC-8255 LED: 18W Typ MDSC-8255 MNA: 52W Typ Power-off: ~ 1

PRODUCT SPECIFICATIONS	MDSC-8255
Dimensions	1260 x 734 x 87 mm / 49.6 x 28.9 x 3.4 in
Net weight display	With protection glass: 33.0 Kg / 72,8 lbs (MDSC-8255 LED) 33.6 Kg / 74,1 lbs (MDSC-8255 MNA) Without protection glass: 24.0 Kg / 52,9 lbs (MDSC-8255 LED NG) 24.6 Kg / 54,2 lbs (MDSC-8255 MNA NG)
Net weight packaged	With protection glass: 39.5 Kg / 87,1 lbs (MDSC-8255 LED) 40.1 Kg / 88,4 lbs (MDSC-8255 MNA) Without protection glass: 30.5 Kg / 67,2 lbs (MDSC-8255 LED NG) 31.1 Kg / 68,6 lbs (MDSC-8255 MNA NG)
Mounting standard	VESA 200x200 & 600x200 mm
Temperature	Operating: 0° - 35° C Storage: -20° - 60° C
Humidity	Operating: 10% – 90% R.H. Storage: 5% – 90% R.H.
Regulation Compliance	• ANSI/AAMI ES 60601-1:2005/(R)2012 Part 1 • CAN/CSA-C22.2 No. 60601-1: 14 Part 1 • IEC 60601-1: 2012 Edition 3.1 Part 1 • EN 60601-1: 2006 + A1:2013 Part 1 • Electromagnetic Compatibility: EMC Medical EMC Standards: IEC60601-1-2 (4th Ed.), EN55011 /CISPR 11, FCC CFR47 part 15 & 18/Class B • Approvals/Marking: CE, c-UL-us, DEMKO
Protection rating	IP20 (IP45 front side)
Warranty	3 years
Green compliance	ROHS-2, REACH, WEEE

ENABLING BRIGHT OUTCOMES

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