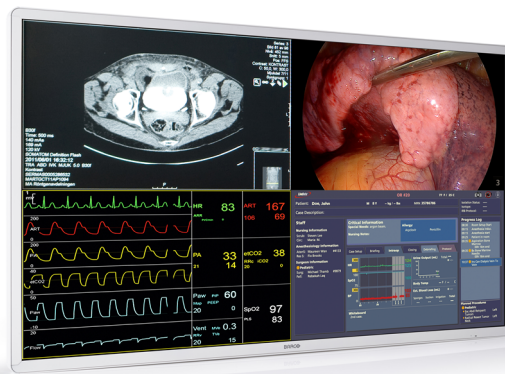


# MDSC-8255

4K UHD large-screen surgical display



- 55-inch wide-screen color LCD with Quad Full HD resolution
- Wide viewing angle
- Advanced image processing algorithms
- BT.2020 compatible

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.

**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)  |
| Color calibration             | ITU-709, DCI-P3, BT.2020   |
| Viewing angle                 | 178° Hor / 178° Ver  |
| Brightness                    | Max: 500 cd/m <sup>2</sup> (typ.)<br>@6500K : 380 cd/m <sup>2</sup> 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<br>4K-UHD input selectable among:<br>1x DP 1.1 up to 3840 x 2160 @25Hz/30Hz<br>2x DP 1.1 up to 1920 x 2160 @50Hz/60Hz<br>1x DP 1.2 MST up to 3840 x 2160 @50Hz/60Hz<br>2x HDMI 2.0 up to 4096 x 2160 @50Hz/60Hz<br><br>FHD input (upscaled to UHD):<br>1x DVI<br>1x 3G-SDI<br><br>MDSC-8255 MNA<br>Same input range as MDSC-8255 LED with the addition of:<br>2x FO SFP+ module for 4K-UHD Nexxis link |
| Video outputs                 | 1x 3G-SDI (3G-SDI input loop-through)<br>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   |
| Remote control                | MDSC-8255 LED<br>micro-USB port for FW download & control protocol<br><br>MDSC-8255 MNA<br>FW download through network connection  |
| Power consumption             | MDSC-8255 LED: 120W (max)/ 90 ÷ 264 Vac 50Hz/60Hz<br>MDSC-8255 MNA: 170W (max) / 90 ÷ 264 Vac 50Hz/60Hz<br>Low power mode<br>MDSC-8255 LED: 18W Typ<br>MDSC-8255 MNA: 52W Typ<br>Power-off: ~ 1  |
| Dimensions                    | 1260 x 734 x 87 mm / 49.6 x 28.9 x 3.4 in  |

**PRODUCT SPECIFICATIONS****MDSC-8255**

|                       |  |
|-----------------------|--|
| Net weight display    | With protection glass:<br>33.0 Kg / 72,8 lbs (MDSC-8255 LED)<br>33.6 Kg / 74,1 lbs (MDSC-8255 MNA)<br>Without protection glass:<br>24.0 Kg / 52,9 lbs (MDSC-8255 LED NG)<br>24.6 Kg / 54,2 lbs (MDSC-8255 MNA NG)  |
| Net weight packaged   | With protection glass:<br>39.5 Kg / 87,1 lbs (MDSC-8255 LED)<br>40.1 Kg / 88,4 lbs (MDSC-8255 MNA)<br>Without protection glass:<br>30.5 Kg / 67,2 lbs (MDSC-8255 LED NG)<br>31.1 Kg / 68,6 lbs (MDSC-8255 MNA NG)  |
| Mounting standard     | VESA 200x200 & 600x200 mm  |
| Temperature           | Operating: 0° ÷ 35°<br>Storage: -20° ÷ 50°   |
| Humidity              | Operating: 10% ÷ 90% R.H.<br>Storage: 5% ÷ 90% R.H.  |
| Regulation Compliance | <ul style="list-style-type: none"><li>• ANSI/AAMI ES 60601-1:2005/(R)2012 Part 1</li><li>• CAN/CSA-C22.2 No. 60601-1: 14 Part 1</li><li>• IEC 60601-1: 2012 Edition 3.1 Part 1</li><li>• EN 60601-1: 2006 + A1:2013 Part 1</li><li>• Electromagnetic Compatibility: EMC Medical EMC Standards: IEC60601-1-2 (4th Ed.), EN55011 /CISPR 11, FCC CFR47 part 15 &amp; 18/Class B</li><li>• Approvals/Marking: CE, c-UL-us, DEMKO</li></ul> |
| Protection rating     | IP20 (IP45 front side)   |
| Warranty              | 3 years  |
| Green compliance      | ROHS-2, REACH, WEEE  |

**Last updated: 06 May 2019**Technical specifications are subject to change without prior notice. Please check [www.barco.com](http://www.barco.com) for the latest information.