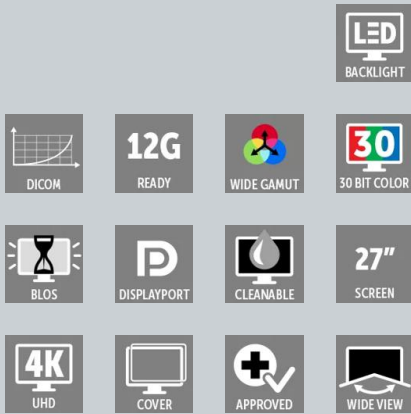


MDSC-8427 12G

4K UHD surgical display



- **Distinctive design, optimized for the operating room**
- **Flexible multi-modality imaging**
- **Fabulous 4K image quality**
- **BT.2020 compatible**
- **12G-SDI and Quad-link 3G-SDI signals accepted**

With Barco's MDSC-8427 surgical display, you'll experience the next level of surgical precision on one of the most versatile displays in the operating room. Featuring Barco's unequalled image quality, this 4K display has exceptional brightness and crisp contrast. It's how you'll see the most detailed picture on a 27" screen. And thanks to our smart image processing technology, specially designed for medical video, your surgical images will be razor-sharp.

True-to-life colors in the surgical suite

The MDSC-8427 has been designed for endoscopy imaging and the integrated operating room. The display has a wide color gamut and offers advanced color calibration algorithms. This results in the most accurate color reproduction, making it the preferred choice for real-time critical imaging.

User friendly

The dual user interface – there is one at the front as well as at the back – makes it easy to operate the display. The touch screen functions at the front can be programmed to meet the personal preferences of surgical staff. The intuitive user interface makes it easy to set up the screen or change the layout configurations of the display to fit the procedure. Four dedicated shortcut buttons enable fluent configuration of the display.

Distinctive design

The 27" screen delivers a stylish, sleek solution for 4K visualization in the operating room. Every detail has been carefully envisioned to assure a professional, purposeful, and elegant fit for the surgical suite. The 27" size offers a lightweight and attractive alternative to current 24" or 26" Full HD displays.

Perfectly safe

This 4K display features a unique, automated failover feature. A backup signal is guaranteed at all times – with no intervention – to ensure safe surgery. The display is easy to disinfect thanks to the smooth surface and splash-proof housing. The integrated cable cover combined with the rubber joystick ensure optimal hygiene. Needless to say, it has been approved for use near patients.

Notice: Displays covered under custom development or sold via partner contracts are managed separately. Lifetime milestones, dates, and product part numbers for these may differ from the above. Please contact your Barco Account Manager for more information.

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Product specifications**MDSC-8427 12G**

| General specifications | |
|-------------------------------|--|
| Screen technology | TFT AM LCD / IPS-PRO technology / LED backlight |
| Active screen size (diagonal) | 27 inch (685 mm) |
| Active screen size (H x V) | 597 x 336 mm |
| Aspect ratio (H:V) | 16:9 |
| Resolution | UHD (3840 x 2160) |
| Pixel pitch | 0.155 mm |
| Color support | 1 Billion (30 bit color depth) |
| Color gamut | Native = Wide color gamut (Adobe 92%) Calibrated color space: ITU-709, DCI-P3, BT.2020 |
| Viewing angle (H, V) | 178° Hor / 178° Ver |
| Luminance | Max: 750 cd/m ² (typ.) @6500K : 550 cd/m ² stabilized (typ.) |
| Contrast ratio | 1400:1 (Typical) |
| Response time | Ton + Toff = 20 msec (typ.) |
| White point | Calibrated: 5600K, 6500K, 7600K, 9300K |
| Gamma curve | Native, 1.8, Video, 2.2, 2.4, DICOM |
| Front protection screen | 2-side AR glass with anti-fingerprint |
| Keyboard | Front Keyboard : 5-key touch Capacitive (User programmable) Rear Keyboard : 5-key membrane (Menu navigation) |
| Video inputs | <p>4K-UHD inputs:</p> <p>4K-UHD input selectable among:</p> <ul style="list-style-type: none">▪ Quad-link 3G-SDI up to 4096 x 2160 @50Hz/60Hz▪ 12G-SDI up to 4096 x 2160 @50Hz/60Hz▪ 1x DP 1.1 up to 4096 x 2160 @25Hz/30Hz▪ 2x DP 1.1 up to 2048 x 2160 @50Hz/60Hz▪ 1x DP 1.2 MST up to 4096 x 2160 @50Hz/60Hz▪ 2x HDMI 2.0 up to 4096 x 2160 @50Hz/60Hz <p>FHD input (upscaled to 4K)</p> <ul style="list-style-type: none">▪ 1x DVI-SL |
| Video outputs | <ul style="list-style-type: none">▪ 2x 12G-SDI (input loop through)▪ 1x DVI (4K display 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, Programmable functional keys, DC Power output, cable cover. |
| Remote control | Remote control of Monitor functions available on: <ul style="list-style-type: none">▪ USB type B port for FW download and remote control▪ Remote control through DDC on DVI and DP |

Product specifications**MDSC-8427 12G**

| | |
|-------------------------------|--|
| Power consumption | Max 120W / 25V \pm 10% Low power mode: 33W Typ Power-off: ~ 1W |
| Power consumption | AC input: 100 – 240 VAC / 47-63 Hz auto-switch DC output: +25V / 8A |
| DC power output | (Power-to-dongle) DC connector: +5V / 2A Available also on DVI, DP and USB ports |
| Dimensions (W x H x D) | 657 x 418 x 75 mm (25.9 x 16.5 x 3.0 in) |
| Dimensions (packaged) | 860 x 560 x 180 mm (33.9 x 22.0 x 7.1") |
| Net weight display | 9.1 Kg / 20.7 lbs |
| Net weight packaged | 13.2 kg / 29.1 lbs |
| Mounting standard | 100x100 mm VESA |
| Operating temperature | 0° -40° for safety/ 5° -35° recommended |
| Storage temperature | -20° -60°C |
| Operating humidity | 20% – 85% R.H. |
| Storage humidity | 10% – 85% R.H. |
| Compliance | <ul style="list-style-type: none">■ 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, BIS |
| Protection rating | IP21 (IP45 front side) |
| Warranty | 3 years |
| Green compliance | ROHS-3, REACH, WEEE |

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