MDSC-8527 SSTF M2 / NXF

4K UHD surgical display

HDR

ECO

3Y WARRANTY

WIDE GAMUT

LED BACKLIGHT

30 30 BIT COLOR

BLOS

DISPLAYPORT

DICOM

CLEANABLE

27" SCREEN

4K UHD

COVER

APPROVED

WIDE VIEW
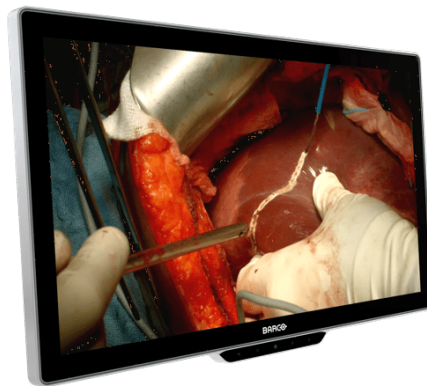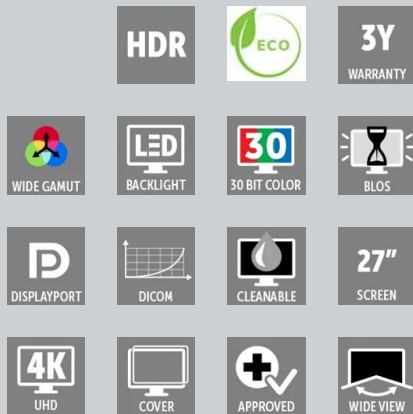
- **Optimized for endoscopy and surgical imaging**

- **Bright and crisp color video images**

- **Billions of true-to-life colors**

- **Accurate color-calibration**

- **HDR-HLG for superior contrast and color accuracy**

- **Fast power on and automatic failover**

- **'A' ecolabel for a sustainable choice**

See more with surgical 4K precision, with our 27", HDR-HLG, A-ecolabel endoscopic and surgical display. This 4K UHD display offers exceptional brightness, crisp contrast, and vivid color video images, important where morphology is inconspicuous or recessed.

Uncompromising image quality

See more subtle differences with the MDSC-8527's 4K resolution. Its HDR-HLG technology delivers high clarity and detail, ensuring precise visualization for every procedure, while enhancing depth perception thanks to the superior contrast and brightness. The wide color gamut and Barco's industry-leading calibration provide a full range of true-to-life colors. And ultra-low latency ensures real-time feedback for perfect hand-eye coordination.

Fast and efficient

The MDSC-8527 is low in weight and slim in design. Its dual user interface – there is one at the front and one at the back – accommodates individual user preferences. The display is fast to power-up, low in energy consumption, and features an automatic failover.

Easily set up and change the display's layout configurations to fit your procedure. And increase efficiency with customizable shortcut buttons.

User centric design

The slim lightweight modern design features an optimized full-front glass design with bezel protection on all sides safeguards against damage by surgical lights and IV poles. It also protects the display from surgical fluids and contaminants.

The fanless design (SSTF M2 version) and intelligent cable cover support infection control, disinfection, and cleaning.

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It is fast to power-up and features an automatic failover. A dual interface design (front and back) accomodates individuals user preference while customizable shortcuts enable faster user interactions.

The MDSC-8527 is approved for use in the vicinity of patients and includes an automated failover method.

The MDSC-8527 comes with a 3-year warranty and the possibility to extend this to 5, with our EssentialCare package.

'A' ecolabel for MDSC-8527

The MDSC-8527 has been subjected to Barco's ecoscoring protocol and has received the A label. To the score contributed the display's energy efficiency and its optimized packaging design, which includes a high degree of recycled content, uses no non-recyclable materials and is in itself recyclable.

Models

- MDSC-8527 SSTF M2: 27" 4K display with SST DisplayPort connectivity and fanless design, white version.The 3G SDI input is designed to deliver optimal performance for moving images and videos, ensuring seamless performance without latency.It has limited support for static content in interlaced formats (e.g., 1920x1080i).For full interlacing support, we recommend Barco 12G variants, which offer enhanced compatibility and performance.Please refer to the user guide for detailed supported timings and configurations.

- MDSC-8527 NXF: 27" 4K display with SST DisplayPort connectivity and integrated Nexxis Decoder (compatible with Nexxis version 1.18.04 or higher).

Product specifications	MDSC-8527 SSTF M2 / NXF
General specifications	
Screen technology	TFT AM LCD / LED backlight
Active screen size (diagonal)	27" (684 mm)
Active screen size (H x V)	596 x 335 mm
Aspect ratio	16:9
Resolution	3840 x 2160 pixels
Pixel pitch	0.155 mm
Color support	1 billion (10 bit color depth)
Color gamut	Native: 88% NTSC
Color calibration	ITU-709, DCI-P3, BT.2020 (BT.2020 reproducible colors are within the limit of the LCD panel)
Viewing angle	178° Hor / 178° Ver
Luminance	Native: 800 cd/m² (typical) Default setting: 550 cd/ m² stabilized @6500K & Native color space
Contrast ratio	1000:1 (Typical)
Response time	Ton + Toff = 16 msec (typical)
White point	Calibrated: 5600K, 6500K, 7600K, 9300K
Gamma curve	Native, 1.8, 2.0, 2.2, 2.4, Video1, Video2, DICOM (review level), HDR-HLG
Keyboard	Front: 5-key capacitive touch -user programmable Rear: 5-key membrane
Front protection screen	2-side anti-reflective alkali-aluminosilicate glass with anti-fingerprint coating
Video inputs	4K-UHD input -1x DP 1.2 up to 3840 x 2160 @ 50/60 Hz (user configurable) -2x HDMI 2.0 up to 3840 x 2160 @ 50/60 Hz -FHD input (upscaled to UHD): -1x DVI -1x 3G-SDI Note: DP, HDMI and DVI all support HDCP 1.4 NXF version 4K-UHD input -1x DP 1.2 up to 3840 x 2160 @ 50/60 Hz (user configurable) -1x HDMI 2.0 up to 3840 x 2160 @ 50/60 Hz -FHD input (upscaled to UHD): -1x DVI -1x 3G-SDI -2x FO SFP+ for 4K-UHD Nexxis link Note: DP, HDMI and DVI all support HDCP 1.45
Video outputs	DP 1.2 SST (main input copy) 3G-SDI (loop-through)
Other connectivity	USB-A (Field FW update with USB stick) USB-B (remote control serial protocol) 2x 3.5 mm minijack audio/trigger (NXF version only) 2x USB-A keyboard/mouse (NXF version only)
Features	User-programmable function keys, Picture-in-Picture, Picture-by-Picture, Image Mirror and Rotation, Zoom, Pan, Failover mode, User profiles, High quality upscaling from SD / FHD input to UHD, FW upload from memory stick
Optional accessories	DC power extension cables: 5m (16.4ft): K3495079 15m (49.2ft): K3495078 20m (65.6ft): K3495081 25m (82.0ft): Z3405337 External power supply: PSU-ATM200T-P250 25V: K9352481

Product specifications	MDSC-8527 SSTF M2 / NXF
External power supply	AC input: 100 – 240 VAC / 47-63 Hz auto-switch DC output: +25 VDC / 8 A Dimensions: 204 x 81 x 43 mm (8.0 x 3.2 x 1.7") Weight: 0.9 kg (2 lbs)
DC power output	DP connector: +3.3 V / 500 mA USB connector: +5 V / 1 A
Power consumption	SSTF M2: Max. 90W / 25V ± 10% Low power mode: < 2.0W typical NXF: Max. 100W / 25V ± 10% Low power mode: < 5.0W typical
Dimensions (W x H x D)	657 x 418 x 75 mm (25.9 x 16.5 x 3.0")
Dimensions packaged (W x H x D)	750 x 660 x 170mm (29,5 x 26,0 x 6,7")
Net weight	SSTF: 9.1 Kg (20.0 lbs) NXF: 9.3 kg (20.5 lbs)
Net weight packaged	SSTF: 14.1 kg (31.1 lbs) NXF: 14.4 kg (31.7 lbs)
Mounting standard	VESA 100 x 100 mm
Operating temperature	0 °C to 35 °C for performance 0 °C to 40 °C for safety
Storage temperature	-20 °C to 60 °C
Operating humidity	20% to 85% (non-condensing)
Storage humidity	10% to 85% (non-condensing)
Operating altitude	3000 m max. / 70 kPa
Storage altitude	5500 m max. / 50 kPa
Certification and compliance	Approvals/Marking: CE (Medical Device Class I), c-UL-us, DEMKO, CCC Green compliance: ROHS-3, REACH, WEEE ANSI/AAMI ES 60601-1:2005/(R)2012 CAN/CSA-C22.2 No. 60601-1: 14 IEC 60601-1: 2012 Edition 3.1 EN 60601-1: 2006 + A1:2013 + A12:2014 IEC 60601-1-2: 2014 + A1:2020 EN 60601-1-2: 2015 + A1:2021 FCC CFR 47 Part 15 Subpart B (Class B) ICES-003 (Class B) GB17625.1-2012; GB4943.1-2011; GB/T9254-2008 IS 13252(Part 1):2010 / IEC 60950-1:2005 (pending) UL 60950-1, 2nd Edition (to make the equivalence with NOM-019)
Protection rating	IP21 (IP45 front side only)
Warranty	3 years

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