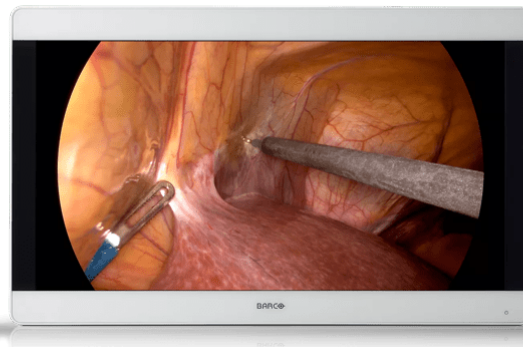
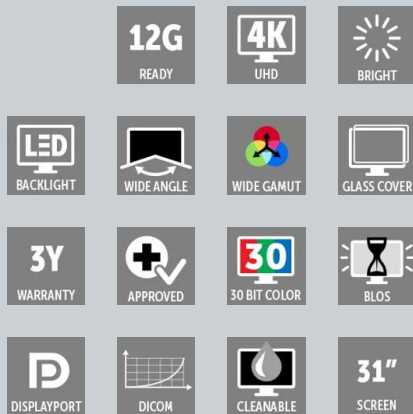


MDSC-8231

4K UHD surgical display



- Perfect match for 4K endoscopy cameras
- Shows images with astonishing detail
- Medical-grade and smart design
- BT.2020 compatible
- 12G-SDI and Quad-link 3G-SDI signals accepted

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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Barco's MDSC-8231 is a 31-inch, near-patient, high-brightness surgical display that is purpose-built for 4K imaging in the digital operating room and interventional radiology control room. It offers an easy-to-clean design, light and smart mechanics, and the most life-like images today.

Ease of mind

Flawless 4K imaging The perfect match for 4K endoscopy camera systems, the MDSC-8231 presents endoscopic images with a resolution four times that of HD. This provides surgeons with more detail-rich, color-correct images for a real-life presentation of the patient's anatomy and excellent depth perception. Images are presented with unrivaled color accuracy (thanks to the wide color gamut and advanced color calibration), without artifacts, and with near-zero latency for optimal hand-eye coordination. The 31-inch display size makes the MDSC-8231 ideal for use in the interventional radiology control room as well.

Multi-source, multi-display imaging With its broad input connectivity and wide set of image control features, the MDSC-8231 offers flexible multi-modality imaging in new integrated operating rooms. The 31-inch display also offers integrated functionality (optional) for use with Barco's Nexxis for video-over-IP solutions.

Safety, stability and redundancy Thanks to its high-bright LED backlight with light output stabilization, the display ensures a long lifetime and image consistency. The unique, automated failover feature guarantees a backup signal at all times to ensure safe surgery.

Ease of installation

The MDSC-8231 comes with a smart cable management system that hides the cables for a clutter-free set-up. Its lightweight design allows easy mounting on surgical booms and spring arms.

Ease of use

Barco's MDSC-8231 allows for easy cleaning and disinfection thanks to its smooth surface and splash-proof housing (front protection level IP45). It comes with a highly durable, scratch-resistant front glass featuring excellent optical performance.

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Product specificaties

MDSC-8231

General specifications

Schermt technologie	TFT AM LCD / IPS-PRO technology / LED backlight
Actief schermformaat (diagonaal)	789 mm (31.1")
Formaat actief scherm (H x V)	698 x 368 mm
Beeldverhouding	17:9
Resolutie	4K-2K (4096 x 2160)
Pixelpitch	0.1704 mm
Kleurondersteuning	1073 million (10-bit)
Kleurenspectrum	Native: 96% DCI-P3 / 105% Adobe
Kleurkalibratie	ITU-709, DCI-P3, BT.2020
Kijkhoek	178° Hor / 178° Ver
Maximale luminantie	Max 550 cd/m ² (typ.)
	@6500K: 450 cd/m ² stabilized (typ.)
Contrastverhouding	1400:1 (typ.)
Reactietijd	T on + T off (=rise + fall): 20 ms (typ.)
Wit punt	Calibrated: 5600K, 6500K, 7600K, 9300K
Gammacurve	Native, 1.8, Video 2.2, 2.4, DICOM
Schermbescherming aan voorzijde	Scratch-resistant 2-side AR alkali-aluminosilicate glass
Keyboard	Capacitive 7-key touch keyboard
Video-ingangen	MDSC-8231 LED 4K-UHD input selectable among: 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 FHD input (upscaled to UHD): 1x DVI 1x 3G-SDI MDSC-8231 12G 4K-UHD input selectable among: 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 FHD input (upscaled to UHD): 1x DVI MDSC-8231 MNA 4K-UHD input selectable among: 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 Fiber Optic SFP+ for 4K-UHD Nexxis link FHD input (upscaled to 4K) 1x DVI 1x 3G-SDI
Video-uitgangen	MDSC-8231 LED & MNA 1x 3G-SDI (input loop through) 1x DVI (screen clone downscaled to FHD) MDSC-8231 12G 1x 12G-SDI (input loop through) 1x DVI (screen clone downscaled to FHD)
Ondersteuning van meerdere beelden	Picture-in Picture, Image Mirror and Rotation, Failover mode, Screen clone on DVI out, FHD input upscaled to UHD, Quadview (through Nexxis)
Afstandsbediening	MDSC-8231 LED, MDSC-8231 12G: Usb Type B port for FW download & control protocol / remote control through DDC on DVI & DP MDSC-8231 MNA: FW download through network connection
Kenmerken	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, cable cover.

Product specificaties

MDSC-8231

Energieverbruik	MDSC-8231 LED: 165W (Max) / 24V ± 10% MDSC-8231 12G, MDSC-8231 MNA: 190W (Max) / 24V ± 10% Low power mode MDSC-8255 LED: 18W Typ MDSC-8255 12G: 33W Typ MDSC-8255 MNA: 52W Typ Power-off: ~ 1
Externe voeding	AC input: 100 – 240 VAC / 47-63 Hz auto-switch DC output: +24 VDC / 10 A
Uitvoer (gelijkstroom)	DC connector: +5V / 2A Available also on DVI, DP and USB ports
Afmetingen zonder standaard (B x H x D)	777 x 472 x 93 mm / 30.6 x 18.6 x 3.6 in
Nettogewicht zonder standaard	12.1 Kg / 26.6 lbs (MDSC-8231 LED, MDSC-8231 12G) 12.7 Kg / 28.0 lbs (MDSC-8231 MNA)
Nettogewicht verpakt	17 Kg / 37.5 lbs (MDSC-8231 LED, MDSC-8231 12G) 17.5 Kg / 38.6 lbs (MDSC-8231 MNA)
Montagestandaard	100x100 & 200x100 mm VESA
Temperatuur	Operating: 0° ÷ 35° C Storage: -20° ÷ 60° C
Vochtigheid	Operating: 10% ÷ 90% R.H. Storage: 5% ÷ 90% R.H.
Naleving van regelgeving	• 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
Certificeringen	IP20 (IP45 front side only)
Garantie	3 years
Naleving van milieuvoorschriften	ROHS-3, REACH, WEEE

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