

MDSC-8232 M3D

Surgical 2D and 3D display with Nexxis 3D HD/4K integration



- Perfect match for HD/4K 3D endoscopy cameras
- Fully compatible with 2D and 3D modes, FHD and 4K/UHD resolution
- BT.2020 & BT.709 compatible
- 3D ergonomic eye-shield included
- Medical-grade, easy to clean design

The MDSC-8232 M3D is a 31-inch 2D and 3D surgical monitor that is compatible with Barco's Nexxis video-over-IP solution.

100% compatibility with existing Nexxis installations

The display has a built-in MNA decoder, which means that it can be seamlessly integrated into an existing Nexxis architecture, just like any other Nexxis source. In a Nexxis configuration, the monitor is compatible with the most common 3D and 2D video formats typical of modern microscopes and laparoscopic camera systems. 3D sources become part of the full integration, including support for inter-OR sharing, remote management, streaming and recording.

3D technology as part of your digital OR

The display is based on a circular polarization technology for 3D visualization with passive glasses. Thanks to the Nexxis integration, it automatically switches between 2D and 3D modes to show the video source in its best suitable format.

Visual comfort in a wide viewing area

In 3D mode, multiple users at the same time will be able to see the image with excellent depth perception and no visual discomfort in a large viewing area. The display also provides HD and 4K image quality with high color accuracy, detailed images and no artifacts. Near-zero latency enables optimal hand-eye coordination.

The full-glass front surface is durable and scratch-resistant make the display easy to clean. The designed in standard VESA-100 mounting plate allows easy mounting on surgical booms and spring arms.

Product specificaties**MDSC-8232 M3D**

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 / 16:9
Resolutie	4K / 2K (4096 x 2160) / UHD (3840 x 2160)
Pixelpitch	0.1704 mm
Kleurondersteuning	1073 million (10-bit)
Kleurenspectrum	Native: 92% DCI-P3 / 105% Adobe
Kleurkalibratie	ITU-709, DCI-P3, BT.2020
Kijkhoek	178° Hor. / 178° Vert.
Luminantie	Max: 450 cd/m ² (typ.) @6500K: 360 cd/m ² calibrated
Contrastverhouding	1300:1 (typ.)
Wit punt	Native: 7200K Calibrated: 5600K, 6500K, 9300K
Gammacurve	1.8, Video, 2.2, 2.4, DICOM
Reactietijd	T on + T off (i.e. rise + fall): 20 ms (typ.)
3D-kijkafstand	Optimal: >1500 mm; Minimum: 700 mm
Vert. kijkhoek	@ Optimal viewing distance: 15.0° Up/Down (crosstalk < 7%)
Type lens	Circular polarization: Left eye on top
Keyboard	Capacitive 7-key touch keyboard
Video-ingangen	2D Input signals: 4K-UHD resolution 1x DP 1.1 up to 4096 x 2160 @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 f.o. SFP + for Nexxis link FHD resolution (upscaled to 4K) 1x DVI 1x 3G-SDI 3D Input signals: 4K-UHD resolution 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 2x f.o. SFP + for Nexxis link FHD input 1x DVI 1x 3G-SDI
Video-uitgangen	2D Mode: 1x 3G-SDI (input loop through) 1x DVI (4K display screen clone -downscaled to 1080i/1080p) 3D Mode: 1x DVI (selectable Left or Right view -downscaled to 1080i/1080p)
Afstandsbediening	USB Type B port for FW download & control protocol
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, Hor & Ver parallax adjustment, 3D color matching for viewing images with glasses, DC Power output, cable cover.

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Energieverbruik	190W (Max) / 24V ± 10% Low power mode: 52W Power-off: ~ 1W
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 (B x H x D)	777 x 472 x 117 mm (30.6 x 18.6 x 4.6 in)
Afmetingen verpakt (B x H x D)	980 x 630 x 200 mm (35.4 x 24.8 x 7.9 in)
Nettogewicht	15.3 kg (33.7 lbs)
Nettogewicht verpakt	21 kg (45.8 lbs)
Montagestandaard	100x100 & 200x100 mm VESA
Temperatuur	Operating: 0° ÷ 30° C Storage: -20° ÷ 60° C
Vochtigheid	Operating: 10% ÷ 90% R.H. (non-condensing) Storage: 5% ÷ 90% R.H. (non-condensing)
Naleving van regelgeving	<ul style="list-style-type: none">• ANSI/AAMI ES60601-1 (2005 + C1:09 + A2:10 + A1:2014)• CSA CAN/CSA-C22.2 NO. 60601-1:14• IEC 60601-1 Edition 3.1 (2012)• EN 60601-1: 2006 + CORR:2010 + A1:2013 + A12:2014• IEC 60601-1-2 (2014)• EN 60601-1-2 (2015)• FCC CFR 47 Part 15 Subpart B• GB17625.1-2012; GB4943.1-2011; GB/T9254-2008
Beschermingsniveau	IP20 (IP45 front side only)
Garantie	3 years
Naleving van milieuvoorschriften	ROHS-3, REACH, WEEE

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