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Sony 3D solutions **for microsurgery**

3D depth perception is the new reality

Sony's 3D camera system for 3D surgery

Sony's end-to-end solution is an extraordinary package of 3D video peripherals for microsurgery. Designed specifically for ophthalmic surgery and neurosurgery this technology-advanced, medically compliant 3D camera system works with most microscopes to capture, record, and display 3D video in the O.R.

The heart of the 3D package for microsurgery is the HD video camera providing exceptional picture quality for both 3D and 2D video. The 3D camera can be integrated with most microscopes (Zeiss, Moller,

Leica, Alcon, etc.), providing the unique ability to share the procedure in 3D with other clinicians in the O.R. with Sony 3D high-quality widescreen displays. Completing the end-to-end solution is the Sony 3D recorder that allows up to 31 hours of high-quality recording onto a robust internal hard disk drive as well as a variety of removable media. Movie Studio Platinum™ editing software provides the capability to import the 3D video and edit footage for review and teaching purposes.



Capture, record, view, and edit all in 3D

This complete solution allows you to capture 3D video with the Sony MCC-3000MT camera that can be mounted on most surgical microscopes. Record 3D video on the HVO-3000MT 3D video recorder, view 3D video on the LMD-2451MT 24" * medically compliant display and LMD-4251TD 42" * display, and edit 3D video with the Movie Studio Platinum Software.**

Features of the Sony 3D complete solution for microsurgery:

- Compatible with most existing microscopes†
- Improves workflow, as the surgical team can view exactly what the surgeon is seeing during the procedure
- 3D recording capability allows for training and post-surgical review
- Complete end-to-end solution for capturing, recording, displaying, and editing 3D video

*Viewable area, measured diagonally

**3D PC or 3D display required for playback

†Requires optional microscope adaptor available from Sony

3D depth perception is the new reality

3D imaging provides a truer visual experience, closer to natural sight, with depth perception and spatial orientation, making it easier to teach surgeons to grasp, cut, and

suture tissue. Optimized for today's demanding O.R. environment, the system offers Sony's industry-leading medical technology to deliver superb lifelike images in 3D.



MCC-3000MT 3D Camera System

- Small and lightweight camera heads with C-mount design. Each camera head features three 1/2-inch type (1920x1080) Exmor® full HD CMOS sensors
- Simultaneous picture adjustment for each camera head
- Optional optical adaptor available from Sony for existing surgical microscopes



HVO-3000MT, 3D/2D Medical Grade HD Video Recorder

- 1080p/60p recording capability
- Selectable bit rates of 20/12/6MB for 1080i and 12/18/24 for 1080p
- Simultaneous and instantaneous recording on two media (USB, DVD, Blu-ray™, or network server)
- Streaming full HD video to any network location
- Simple and compact with an easy-to-use interface



LMD-2451MT 24" medically compliant display

- Widescreen Full HD 3D displays
- Features Sony's industry-leading circular micro-polarizing technology to deliver superb lifelike images
- 2D/3D switchable



Movie Studio Platinum software

- Everything needed to import and edit HD images easily
- Powerful tools for video compositing and color correction
- Capability to do surround sound mixing
- Perfect for producing materials for teaching and reviewing

TTI Microscope adaptor compatibility chart

ZEISS				LEICA			
Neurosurgery		Ophthalmology		Neurosurgery		Ophthalmology	
OPMI Pentero 900	A/D	OPMI Lumera 700	A/D	M500, M695, MS, M400, M680	C	M820	C
OPMI Pentero C	A/D	OPMI Lumera T	A/D	M501	C	M840	C
OPMI Pentero	A/D	OPMI Lumera i	A/D	M500N	C	M860	C
OPMI VARIO 700	A/D	OPMI Lumera	A/D	M520	C	M650, 655, 690	B
OPMI VARIO/S88	A/D	OPMI VISU140	A/D	M525	C		
OPMI VARI/S100 System	A/D	OPMI VISU150	A/D				
Sensera	A/D	OPMI VISU160	A/D				
Pico (ENT)	A/D	OPMI VISU200	A/D				
		OPMI VISU210	A/D				
		OPMI 1 FR pro	A/D				
		OPMI pico 1	A/D				
		OPMI CSI	A/D				
		OPMI CS-NC	A/D				
		OPMI CS	A/D				

- A: MCC8102SNY Complete video adaptor for Zeiss microscopes
 B: MCC8012SLWD Complete video adaptor for older Leica microscopes
 C: MCC8102LR Complete video adaptor for newer Leica microscopes
 D: MCC8102SNG Adaptor for microscopes that already have beam splitter

Note: Assistant's scope is not recommended to be used, when those adaptors are attached on surgical microscope.

For more information, visit sony.com/3Dforsurgery.



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CAUTION: Federal (USA) law restricts this device to sale by or on the order of a physician or other appropriately licensed medical professional.
 CAUTION: See product labeling for indications, contraindications, warnings, cautions and directions for use.