Living up to Life

Leica
MICROSYSTEMS

TrueVision® Integrated 3D

Teach in 3D HD – Save OR Space – Easily Edit Videos

MEDICAL DIVISION

TrueVision
3D • SURGICAL

Smart 3D Inside

Leica Microsystems and TrueVision® 3D Surgical bring you the world's first surgical microscope with built-in 3D HD visualization and recording. The Leica M720 OH5 and Leica M525 OH4 are available with TrueVision® Integrated 3D.

TrueZoom® 3D HD camera is fully integrated into Leica M720 or Leica M525 optics. Multiple configuration options are possible, offering the flexibility to work in 3D while maintaining both the rear and side optical assistants.

The TrueVision® 3D embedded processing unit is built completely inside the Leica OH5 and Leica OH4 microscope stand. The intelligent TrueVision software platform will allow upgrades with future surgical guidance applications.

A 3D HD 1080p monitor allows viewing in 2D or 3D, as well as simulteaneous 3D and 2D streaming to external monitors. Quickly and easily switch between 3D or 2D visualization and recording, to customize the setup for your team and environment.

A New Dimension in Surgical Education

"TrueVision 3D integrated within the Leica M720 OH5 microscope provides unparalleled 3D visualization of microsurgical operations and surgical anatomy for the OR team as well as surgical assistants and observers, while using the same footprint as the microscope itself. It represents a major advance in 3D neurosurgical education and avoids the inconvenience and OR clutter of setting up a separate 3D visualization solution."

Kevin Foley, M.D., Professor of Neurosurgery

ENHANCE YOUR TEACHING PROGRAM WITH 3D EDUCATION

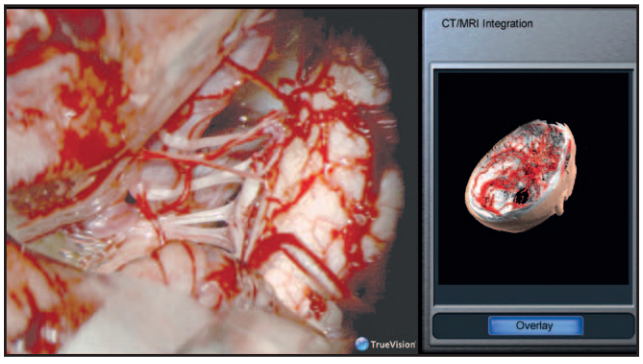
During surgery, assistants, nurses and students share the same 3D view as the surgeon. Three-dimensional visualization of anatomical structures improves understanding of complex cases and increases knowledge retention. Teaching or presenting in 3D is more engaging for the audience, and will raise the caliber of your teaching program.

SAVE TIME WITH EASY VIDEO EDITING

Editing surgical videos doesn't have to be a chore. With TrueEdit® from TrueVision Systems, documenting your surgeries in 3D or 2D is as simple as click, drag, drop – sharing surgical video has never been faster or easier. Incorporating an intuitive interface with the versatility to work with multiple media formats, proprietary TrueEdit® software saves you time and energy when compiling video.

SIMPLIFY YOUR OPERATING ROOM

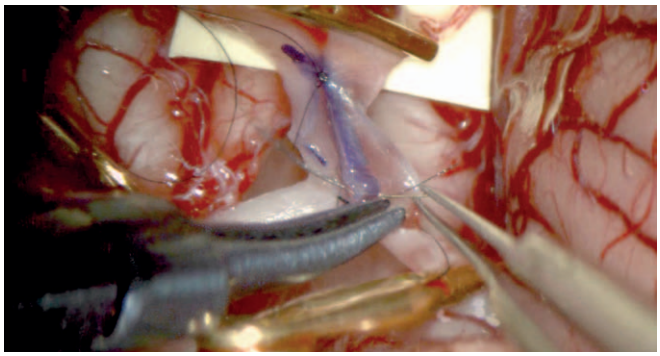
3D Inside means no extra cart, no external cables, and no interruption in your workflow. The compact system saves space in the operating room, and features a single switch for quick startup. Select recording functions, including optional Leica FL800 vascular fluorescence, are seamlessly integrated into the microscope hand controls and can be operated by the surgeon through the sterile drape.

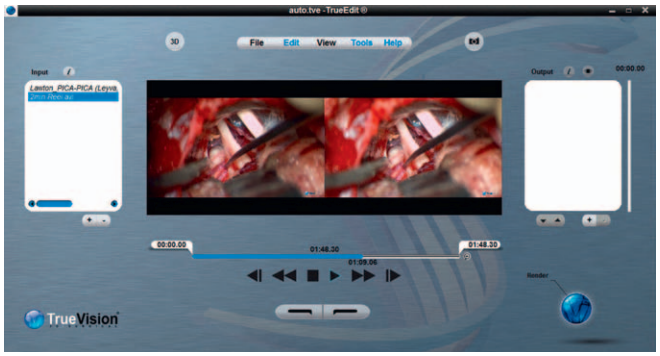


OWN THE PLATFORM FOR FUTURE APPLICATIONS*

Leica Microsystems' OpenArchitecture™ and modular design allow for easy upgrades and integration of digital imaging and data systems. The TrueVision Smart 3D system is the only software-based 3D platform, and is upgradable for future surgical guidance applications.

* Pictured: potential future surgical guidance application, not available for sale.





TECHNICAL SPECIFICATIONS

TrueIPU™ INTELLIGENT IMAGE PROCESSING UNIT

Processor	Intel® Quad Core™ i7
Graphic Card	Over 1,000 GPU Cores
RAM	16 GB DDR3
Hard Drive	1 TB storage space
Recording	50 hours plus of 3D HD video
Burner	Blu-Ray, DVD, and CD read + write
Operating system	Windows 7 embedded
Imaging software	TrueWare™ OS 3D
Interfaces	USB 2.0, USB 3.0, VGA, Ethernet and HDMI ports
	S-Video and Composite (input)

TrueZoom® 3D SURGICAL CAMERA (ICM)

HD camera type	3D HD progressive scan, real-time video
Zoom	Instant 2× spatial in both directions, no resolution loss
HD resolution	1280×972 square 1920×1080p
Frame rate (each eye)	45 FPS (972p) 60 FPS (1080p)
Exposure	Automatic gain and exposure control
Shutter	User adjustable stereoscopic iris
White balance	Digital with memory

COMPONENT PARTS

TrueZoom™ 3D surgical camera (ICM), TrueIPU™ intelligent image processing unit, 3D monitor, 3D glasses, keyboard

COMPATIBILITY

Integrated	Surgical microscopes Leica M720 OH5 and Leica M525 OH4
Non-integrated	Cart solution available for any Leica Microsystems surgical microscope

PRODUCT AVAILABILITY

Please check the status of TrueVision® product availability with your local Leica Microsystems representative.

REGULATIONS AND STANDARDS

Surgical microscopes Leica M720 OH5 and Leica M525 OH4 with integrated TrueVision® system:

- Council Directive 93/42/EEC on Medical Devices (MDD) and its amendments.
  Classification: Class I, in compliance with Annex IX, rule 1 and rule 12 of the directive.
- IEC 60601-1 / EN 60601-1 Medical Electrical Equipment,
  Part 1: General requirements – including national differences of EU, CA, US.
- IEC 60601-1-2 / EN 60601-1-2 Electromagnetic Compatibility.

The Medical Division, within Leica Microsystems (Schweiz) AG, holds the management system certificates for the international standards ISO 9001, ISO 13485, and ISO 14001 relating to quality management, quality assurance and environmental management.

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