

From Eye to Insight

*Leica*  
MICROSYSTEMS

Microscope system for cataract and vitreo-retinal procedures

## HEADS UP SURGERY – THE NEW PERSPECTIVE

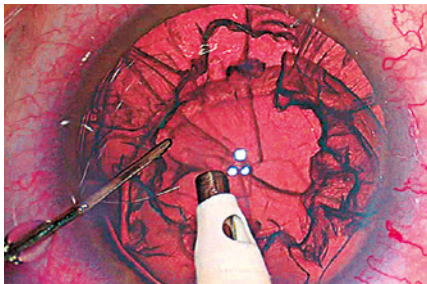
TrueVision 3D Visualization  
for Ophthalmology



# HEADS UP SURGERY - THE NEW PERSPECTIVE

DISCOVER A NEW WAY OF OPERATING AND BENEFIT FROM  
ENHANCED WORKFLOW, COMFORT AND TEACHING.

Leica Microsystems and TrueVision bring you the Leica M822 and Leica M844 microscopes with the TrueVision 3D visualization system. Now you and your whole team can experience three-dimensional depth perception during surgery without looking through the microscope eyepieces! Become immersed in a new way of operating with 3D.



## **A new way of operating**

Choose to operate in a heads-up manner, looking directly at the large 3D screen and experience a whole new way of working. The high-definition screen delivers excellent depth perception and a large field of view. With minute anatomical details visualized on such a large scale, surgery becomes an even more immersive experience.



## **One view for all**

Everyone in the OR can now share the same real-time three-dimensional view of the surgical field as the surgeon. This engages the entire team visually in the procedure which can facilitate communication and support the surgical workflow.



## **Enhanced ergonomics**

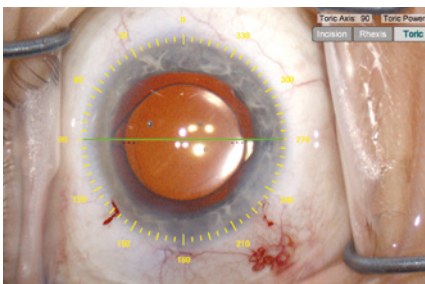
Position the 3D screen where it is comfortable for you to work with a straight back and neck. This posture naturally reduces back and neck stress and pain which can have a compounding effect over the course of years in the OR. With less physical distraction you can remain fully focused on achieving optimal patient outcomes throughout your career.

"I was floored by the high-quality image of the latest TrueVision platform...we all loved it! The colors, resolution, image size and consistency with microscope were great."  
Ike K. Ahmed, MD



### Engaging education

By simply looking at the 3D HD screen, residents can now experience depth perception comparable to looking through the eyepieces. 3D imaging can improve understanding and knowledge retention\*. By recording surgeries in 2D or 3D, you can also share your expertise with peers. Editing is fast and simple with TrueEdit proprietary editing software.



### Your platform for the future

Leica Microsystems' modular design concept with OpenArchitecture combined with the TrueVision software-based 3D platform, enables easy integration of digital imaging and data systems. Upgrade at any time and ensure you stay at the forefront of advances in surgical guidance technology.

\* 2010 Texas Instruments educational study

## Choose the right 3D visualization system for your OR

TrueVision 3D Heads-up Visualization is available on the Leica M822 and Leica M844 ophthalmic microscopes as an integrated, space-saving package, or as a flexible stand-alone system for many existing microscope models.



Leica M844 with TrueVision integrated 3D HD visualization system.



Leica M822 with integrated Truevision 3D HD visualization system.



Leica M822 and Leica M844 can be linked to a free-standing TrueVision 3D HD cart system.

## 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	2 TB storage space
Recording	100 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 HDMI and Composite (input)

### 3D Surgical Camera (ICM5)

HD camera type	3D HD progressive scan, real-time video
HD resolution	1920x1080p x 2 (for each eye)
Frame rate (each eye)	60 FPS (1080p)
Exposure	Automatic gain and exposure control
Shutter	User adjustable stereoscopic iris
White balance	Digital with memory



Leica Microsystems (Schweiz) AG  
Max Schmidheiny-Strasse 201  
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Surgical microscopes Leica M844 and Leica M822  
with integrated TrueVision system

Not all products or services are approved or offered in every market. Approved labeling and instructions may vary between countries. Please contact your local Leica representative for details.

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