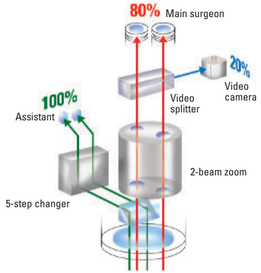
See More with Less Light

Your benefits:
- Less light exposure to the patient
- Better detail recognition and resolution
- More light for the main surgeon, as no light is lost to the video camera

Better Detail Recognition with Leica's QuadZoom™ Technology

See more at safer illumination levels
Leica Microsystems' optics offer outstanding light transmission compared to conventional microscopes.

Sharp, brilliant, true anatomical color images with excellent depth of field are obtained using significantly lower illumination levels – for enhanced patient safety, fatigue-free viewing, and better detail recognition.



Conventional Microscope
The main surgeon loses up to 20% of the light to the video camera.

100% light for the main surgeon: QuadZoom™
Leica's QuadZoom™ technology, featuring four separate beam paths, delivers 100% APO OptiChrome™ stereovision and illumination for both the main surgeon and the assistant.

Even if a video camera is added, the main surgeon benefits from 100% undivided light at any time, and from a better view.

Leica Microscope featuring QuadZoom™
The main surgeon benefits from 100% light, even if a video camera is added.

Work and Teach in Comfort

Your benefits:
- Automatically synchronized views for surgeon and assistant – for ideal teaching
- Individually adjustable binoculars for hours of working in comfort

Teaching: Sharing the Same View

Synchronized magnification: QuadZoom™
The best surgical training requires the surgeon and assistant to share the same view at all times.

Only Leica's QuadZoom™ technology features four separate beam paths (two for the student, two for the teacher) in the same zoom system, which delivers the same magnification and stereo view simultaneously to both the teacher and the student.

Unlike conventional microscopes, no manual magnification adjustment by the teacher is necessary.

Leica Double Wing
Leica's Double Wing allows two students/assistants to have a full stereo view at the same magnification.

Always Work in Comfort

UltraLow™ II Binocular Tubes
Comfortable, relaxed working positions for the surgeon and assistant as well as fatigue-free viewing are key criteria. Leica Microsystems offers the widest selection of individually adjustable binocular tubes for unmatched ergonomics.

For example, the unique UltraLow™ II binocular tubes drop lower than conventional binoculars, which compensates for height differences caused by auxiliary accessories stacked on the optics, such as inverters or laser shutters.

see better
work better
feel better

Full Integration of Retinal Accessories

Your benefits:
- Full integration of wide-angle observation systems and image inverters, controlled via microscope footswitch
- Quick mount interface to save time during surgery and in preparation

Wide-Angle Observation and Image Inverter

Integration of Oculus SDI / BIOM
Leica Microsystems' ophthalmic surgical microscopes are designed to integrate the most commonly used wide-angle observation systems and stereo image inverters.

For example, when integrating the Oculus SDI/BIOM system, the surgeon can control its functions through the Leica microscope's 16-function footswitch. The system can be fully controlled by a single footswitch instead of two.

Precision Surgical Slit Lamp

Leica's Slit Illuminator
The surgical slit lamp is the ideal visualization tool for anterior and posterior segment surgery, in particular membrane peeling cases, with many features to save time.

- Slit beam is adjustable in width and length to scan over the cornea from any position via the footswitch
- Limit switches for user-specific pre-positioning
- Quick mount interface to comfortably and quickly install and remove the slit lamp

HD Documentation

NEW

Your benefits:
- Impressive high-definition images
- Integrated into the microscope floor stand
- Compact design for easy, convenient positioning in the operating room
- Wireless transfer to the Apple® iPhone™ and iPod touch™

Compact and Integrated HD Recording

Med X Change HDMD™ All-in-One
The HDMD™ All-in-One, a compact and integrated high-definition (HD) digital recording system, provides stunning, high-quality videos and still images. The system is available exclusively from Leica Microsystems.

- 16:9 widescreen HD video and still images
- Storage capacity of approx. 50 hours of HD video
- Wireless transfer of surgical cases from a Leica microscope recording system to an Apple® iPhone™ or iPod touch™ using the Med X Mobile app

Leica Solutions

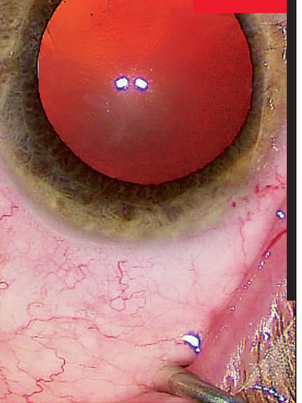
Leica M844 F40

Solutions for Retinal Surgery

Optics Carrier	Leica M844		Leica M820	
Floor Stand	F40	F20	F40	F20
APO OptiChrome™	●	●	●	●
Halogen illumination	●	●	●	●
QuadZoom™	●	●	-	-
OttoFlex™	●	●	●	●
Auto Reset	●	●	●	●
StepCycle™	●	●	●	●
Two-in-One display	●	●	●	●
HDMD™ All-in-One	○	-	○	-
Inverter	○	○	○	○
Slit Lamp	○	○	○	○
Laser adaptability	○	○	○	○
Double Wing	○	○	-	-
Rotatable Beamsplitter	-	-	○	○
Wireless footswitch	○	○	○	○
Electromagnetic brakes	●	-	●	-
AgProtect™ coating	-	●	-	●

● = Standard; ○ = Option; - = Not available

North American customers please call: 800-248-0123
All other customers please refer to our website for local contact details: www.leica-microsystems.com



Cataract

Anterior Segment Surgery Solutions

Living up to Life

Leica MICROSYSTEMS

True Red Reflex

Your benefits:

- True red anatomical color
- More stability of the Red Reflex
- Increased depth of field
- Optimal contrast at lowest illumination levels can provide more safety for the patient and the surgeon

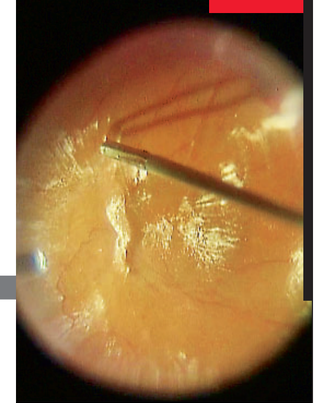
Workflow Efficiency

Your benefits:

- Save time before, during, and after a procedure, but also between procedures
- Increase efficiency in the operating room, while maximizing surgical outcomes

Leica Solutions

Leica M820 F20



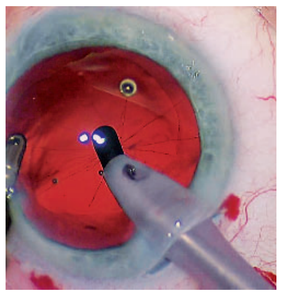
Retina

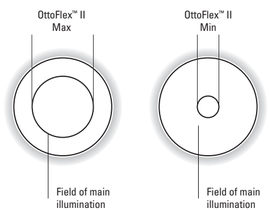
Posterior Segment Surgery Solutions

Living up to Life

Leica MICROSYSTEMS

Brilliant and Stable Red Reflex





Sterile adjustment of diameter

Brilliant, rich contrast
The halogen illumination system – which has no breakable fiber optic cables – ensures optimal image contrast and helps save money. In combination with Leica Microsystems' renowned optics, this leads to crisp and brilliant, true anatomical color images.

Outstanding stability:
Original Double Beam Stereo Illumination
The double beam stereo illumination and Leica's large OttoFlex™ II illumination diameter enable true three-dimensional vision and better Red Reflex stability during modern cataract surgery. Less XY-centering is required.

Easy visualization: OttoFlex™ II
The OttoFlex™ II independent illumination system allows the surgeon to adjust the brightness where it is needed most – for easier visualization of difficult anatomical conditions, such as small pupils or very advanced cataracts. In addition, less refocusing is needed during phacoemulsification.

Phase 1: Pre-Operation

Leica features optimize the surgical workflow

	Pre-OP	In-OP	Post-OP
WFS	●	○	○
2-in-1 display	○	●	○
StepCycle™	-	●	-
Auto Reset	○	-	●
RBS	○	-	●

● = Phase of main usage
○ = Phase of possible usage
- = Typically no need for feature in this phase

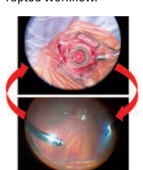
NEW

Wireless Footswitch
Leica's Wireless Footswitch (WFS) offers maximum mobility for a fast, easy switch between left and right eye procedures. It uses ISM bandwidth technology, and the battery has a life expectancy of approx. one year. The overall result: cordless convenience.

Phase 2: In-Operation

Two-in-One Display
The touch panel offers intuitive control of all microscope functions. With one touch of a button the control unit's display becomes the microscope control, and real-time video monitor.

StepCycle™
With the StepCycle™ function, a surgeon can program and switch between predefined settings for each step of the procedure. These presets can be recalled at the push of a button on the footswitch. The surgeon has both hands free for an uninterrupted workflow.



Quick switch between over view and inner eye view during vitrectomy; can save up to 30% of surgery time.

Phase 3: Post-Operation

Auto Reset
With the Auto Reset function, all microscope functions automatically reset to individual start settings after each case. The result: a perfectly prepared microscope, which saves time between cases.

Rotatable Beamsplitter
Leica's Rotatable Beamsplitter (RBS) is the world's first two-beampath solution for temporal approach cataract surgeries. The easy, side-to-side quick change of the assistant observer optics saves time between cases and increases efficiency in the operating room.

Solutions for Cataract Surgery

Optics Carrier	Leica M820	Leica M620
Floor Stand	F40	F20	F20
APO OptiChrome™	●	●	○
Halogen illumination	●	●	●
OttoFlex™	●	●	-
Jalousie	-	-	●
Auto Reset	●	●	●
StepCycle™	●	●	-
Two-in-One display	●	●	-
HDMD™ All-in-One	○	-	-
Inverter	○	○	○
Slit Lamp	○	○	○
Laser adaptability	○	○	○
Rotatable Beamsplitter	○	○	○
Wireless footswitch	○	○	○
Electromagnetic brakes	●	-	-
AgProtect™ coating	-	●	●

● = Standard; ○ = Option; - = Not available

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