



# Leica M400 E

## Affordable Excellence

The One Hand Movement Microscope™  
for ENT Surgery

Living up to Life

*Leica*  
MICROSYSTEMS

# Swiss Precision is one of our Qualities

## **Perfectly balanced in performance and price**

For demanding tasks, surgeons around the world trust Leica surgical microscopes. And with good reason. Leica offers brilliant optics, precision, and user friendliness. And Leica quality means advanced technology and innovation.

The Leica M400 E compact surgical microscope for ENT surgery brings you innovative patented solutions. Perfect balance, plus a ergonomic handle, allows One Hand Movement. So surgery goes easier and faster. That kind of performance is worth every penny.

## **The Leica M400 E at a glance**

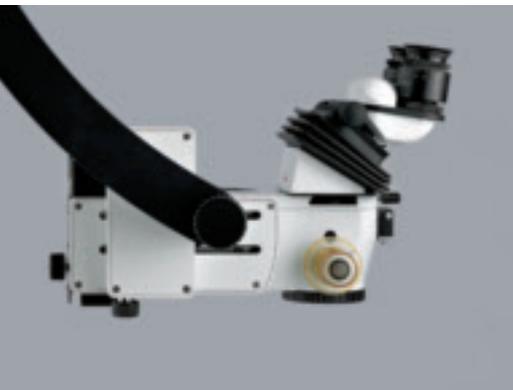
- Compact design with built-in control unit
- Patented, highly maneuverable counterbalance mechanism
- Fast, precise positioning with One Hand Movement (ergonomic handle for comfortable one-hand positioning)
- Long-reach swingarm for optimal positioning in the OR
- Brilliant optics with outstanding depth of field and contrast
- Integrated coaxial halogen illumination
- Optional light intensifier
- Optional Xenon illumination
- Choice of fine-focus lenses, with sterilizable drive knobs
- Laser adaptability
- Choice of accessories for observation and documentation



Clever and efficient:  
Lamp with light intensifier



# Attention to the Right Details



Fast and easy balancing with  
the ABC system



Unique and ergonomic: the sterilizable handle  
on top of the sterile drape



Various laser micro-manipulators  
can be mounted

## **Patented: The counterbalance mechanism**

With an innovative patented balancing system, the Leica M400 E remains perfectly still in any position. Even when accessories vary.

## **Perfected: One Hand Movement**

One Hand Movement gives the Leica M400 E unprecedented ease and smoothness. The new ergonomically designed handle gives you fast, precise and effortless positioning. Your other hand stays free to operate.

## **Brilliant: The optics**

The legendary quality of Leica optics is at the heart of the Leica M400 E. The image you see is rich in contrast. Depth of field is wide. You get outstanding resolution of the finest details.

## **Optimized: The illumination**

The integrated halogen illuminator emits a coaxial light beam that penetrates even the narrowest cavities, illuminating your field of view brightly and uniformly. A light intensifier and Xenon illumination are available as options.

## **Versatile: The accessories**

A broad selection of optical accessories is available for the Leica M400 E. So you can adapt it specifically to your needs. There is even an interface for commercially available laser systems.



Long-reach swingarm with precision mechanics

Patented counterbalance mechanism:  
Pat. no. US-5,213,293  
Pat. no. EP-A-0 433426  
Pat. no. JP-2046572

Compact design with built-in control unit

Integrated halogen illumination with a fast lamp quick-changer

5-step magnification changer

Brilliant Leica optics

Comfortable handle for fatigue-free One Hand Movement

Stand-mounted grip to easily move the unit

Small base with large, easy-rolling casters

Leica Design by Christophe Apothéoz

# Versatility through Modular Design



The modular design of the Leica M400 E enables you to easily adapt the system to suit your specific needs.

Above: the ideal setup for video documentation and stereoscopic co-observation

- 1 Intelligent and sterile:  
Lens protector and handle
- 2 Ergonomic accessories:  
A selection of binocular tubes
- 3 The right C-mount video adapter for every task, even for photography
- 4 Leica video cameras optimized for the system
- 5 Accessory for monocular co-observation
- 6 Fine-focus lens with sterilizable drive knobs



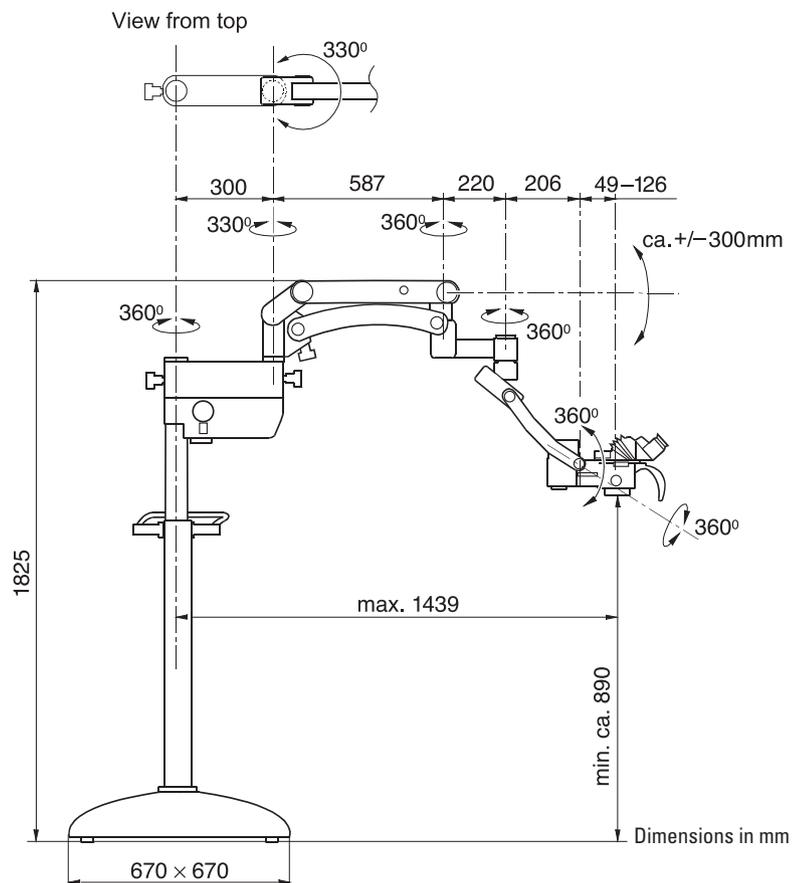
# Technical data Leica M400 E

Leica M400 E Microscope	
Magnification	5 step magnification changer, manually
Range of magnification	1.5x – 40x with 10x eyepieces
Field of view	33 mm – 132 mm with 10x eyepieces illumination
Illumination	integrated coaxial halogene illumination 12V/50W with quick lamp changer, optional with light intensifier
Xenon light source	Optional; 180 Watt Xenon light source, including 150 Watt halogen light source
Spot illumination	Adjustable, minimal spot of 10 mm
Focusing	Optional fine focusing lenses, range of 14 mm
Handle	Ergonomically and sterilizable

Stand	
Type	Mobile floor stand with 7 precision joints
Base	Compact with 4 casters and 2 brakes
Control unit	Built on and compact
Balancing	Manually adjustable swingarm and microscope carrier (patented)
Maximum load	5.0 kg of accessories to the microscope
Maximum reach	143.9 cm
Vertical range	60 cm
Maximum transport height	182.5 cm
Weight without microscope	174 kg

Accessories	
Beam splitter	50% / 50%, 70% / 30%
Binocular tubes	With variable angle of observation 0–180° and 30–150°, straight- and inclined tubes, with drive for adjusting interpupillary distance
Eyepieces	Wide-field eyepieces for spectacle wearers 10x and 12.5x, Dioptric setting +/- 5 with adjustable eye cup
Objectives	Fixed focal lengths from f = 100 mm up to f = 400 mm, fine focusing lenses with f = 250 mm, 275 mm and 300 mm
Second observer	Stereo attachment for second observer and monocular tube for beam splitter
Photo attachment	f = 250 mm and f = 350 mm
Videoadapter	Videozoom tube, TV/photo dualattachment, TV adapter f = 107 mm
Video systemes	Leica 2D Video Pickup System, Leica 2D Video C-mount System
Asepsis	Sterilizable protective glass cover for the objectives; sterilizable components for all drive knobs, commercially available drapes
Laser	Various commercially available lasers can be attached

Electrical Data	
Power Supply	100 / 230VAG +10% / -15%, 50 / 60Hz, 1500VA
Classification	Class 1
Type	Type B
Fuses	2x T6.3A / 250V



# “With the user, for the user”

## Leica Microsystems

Leica Microsystems operates globally in four divisions, where we rank with the market leaders.

### • Life Science Division

The Leica Microsystems Life Science Division supports the imaging needs of the scientific community with advanced innovation and technical expertise for the visualization, measurement, and analysis of microstructures. Our strong focus on understanding scientific applications puts Leica Microsystems' customers at the leading edge of science.

### • Industry Division

The Leica Microsystems Industry Division's focus is to support customers' pursuit of the highest quality end result. Leica Microsystems provide the best and most innovative imaging systems to see, measure, and analyze the microstructures in routine and research industrial applications, materials science, quality control, forensic science investigation, and educational applications.

### • Biosystems Division

The Leica Microsystems Biosystems Division brings histopathology labs and researchers the highest-quality, most comprehensive product range. From patient to pathologist, the range includes the ideal product for each histology step and high-productivity workflow solutions for the entire lab. With complete histology systems featuring innovative automation and Novocastra™ reagents, Leica Microsystems creates better patient care through rapid turnaround, diagnostic confidence, and close customer collaboration.

### • Medical Division

The Leica Microsystems Medical Division's focus is to partner with and support surgeons and their care of patients with the highest-quality, most innovative surgical microscope technology today and into the future.

The statement by Ernst Leitz in 1907, “with the user, for the user,” describes the fruitful collaboration with end users and driving force of innovation at Leica Microsystems. We have developed five brand values to live up to this tradition: Pioneering, High-end Quality, Team Spirit, Dedication to Science, and Continuous Improvement. For us, living up to these values means: **Living up to Life.**

### Active worldwide

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and representatives in more than 100 countries

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.

