

Leica M525 F40

True greatness in tight spaces

Living up to Life





Leica

$\mathbf{M525} \mathbf{F40}$

Leica's M525 OptiChrome[™] premium optics and the compact Leica F40 stand are the perfect answer to the challenges of microsurgery. Best viewing, perfect balance, easy mobility, optimal stability and excellent value for money all define this Leica microscope system. The slim design of the Leica F40 stand conceals innovative engineering that provides a unique homogeneity of movement. Sophisticated interface solutions make the Leica M525 F40 compatible with neuronavigation/IGS systems.

A new feature of the Leica M525 microscope is the coupling of the illumination brightness control to the working distance for even more reliable work at short distances.



Leica Design by Christophe Apothéloz

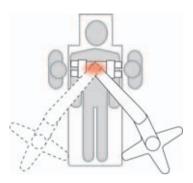


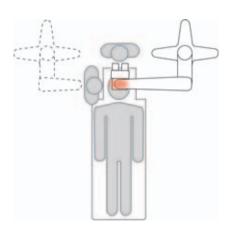
True greatness in tight spaces.

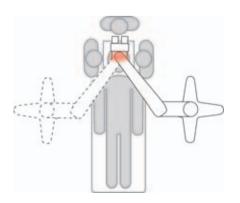




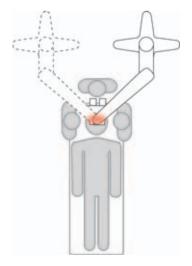












Always in the right place

The modern operating room is frequently filled with numerous pieces of surgical equipment and a large team of surgeons and nurses. Under these circumstances, even large operating rooms can get a bit tight. Leica engineers developed the Leica F40 stand in response to these often cramped conditions. The result: an extremely compact base combined with a very long swing arm for optimal use of space.



Compact and flexible

The Leica M525 F40 can be made even more compact by folding it together and requires very little floor space. Unfolding the system for placement around the operating table is simple and easy, as is the balancing. With the long range of the Leica M525 F40, the stand fits perfectly and flexible into any surgical set up.



Leica M525 optics Featuring OptiChrome™

The Leica M525 optics feature the latest Leica OptiChrome[™] technology. By integrating new glass, coatings, and design parameters, Leica's high-resolution OptiChrome[™] technology delivers the expanded working distance, greater depth of focus, and additional illumination needed for precision microsurgery and forms the basis for the world's most advanced optical system. Leica M525 optics deliver the following outstanding benefits:

- Longer 32% extended working distance to 470mm
- Deeper 30% increased depth of focus at same magnification
- Brighter 30% more light intensity
- Sharper Higher contrast and crisper, sharper image
- Smarter Autolris[™] Coupled illuminated field size and field of view



Details with high utility

Ergonomic: the generous surrounding grip. In conjunction with the compact base, the grip permits the Leica M525 F40 to be maneuvered laterally to the operating table with ease.

Compact and stable: the base. Measuring only $637mm \times 637mm$ (25 in. \times 25 in.), the movable base is a dwarf that performs the job of a giant, keeping the very long swing arm stable and securely positioned above the operating table.

Practical: the footswitch mount. Positioned at an ergonomic height and protected from all sides, the footswitch mount is extremely practical.

Fast and secure: the foot brakes. The two foot brakes can be actuated quickly and individually and guarantee secure positioning.

Cleanly positioned: the video CCU carrier. The video camera control unit carrier lets you mount your equipment on the stand in an orderly manner and have it draw its power from the stand; a practical unit with a minimum of cabling.



Accessories and control panel



Control electronics



Objective protection glass

Intelligent: the control electronics. The ISUS system (Intelligent Set Up System) developed by Leica guarantees maximum flexibility for up to 8 user-specific configurations. ISUS also features a self-diagnostic system.

Ergonomical: the compact microscope. The compact design of the Leica M525 F40, guarantees the smallest possible working distance between the eyepieces and object field. Its optimized ergonomics guarantee a relaxed posture for the surgeon.

A clear, sterile view: sterilizable objective protection glass. The Leica M525 objective cap consists of high-quality, thin-film coated optical glass in an interchangeable mount for the best possible vision and long-lasting sterility.

Fast and optimal: the illumination. The 300W xenon light source allows even the finest structures in low-lying operating locations to be viewed clearly with perfect depth perception. Should the xenon light source ever fail during surgery, the 150W halogen light source will be available within one second with a quick turn.

Lightning unit with lamp quick-changer (XENON/HALOGEN)



The power package: 300W xenon light source



Compatibility Prepared for all data



RGB Monitor system with highest available resolution 1024×768 pixel.

In combination with IGS systems

or deployed independently, the Leica DI C500 dual imaging module processes more file formats than ever – high-resolution RGB video signals, correlated data from IGS systems, standard CT or MRI data and more.

Endoscopy

The Leica M525 F40 can be used very easily for neuro endoscopy application in combination with the Leica DI C500. With the Leica DI C500, the surgeon will view in whichever microscope eyepiece he chooses, what he could observe on a high resolution monitor.

The Leica ULT 500

is the ultra-observation tool for the surgeon, the assistant and video documentation. A simple lever allows the light to be directed to either a 180° assistant or a 90° assistant. The Leica DI C500 allows the surgeon to view data from any external source such as MRI, CT, IGS, and endoscopes. With an IGS computer, the CT or MRI can be fully correlated to the image in the eyepieces. Correlated image information can be superimposed on the microscope image, while non-correlated information is displayed over a black background using quad-shutter technology. All data can be projected with the highest resolution, brightness and contrast available in the marketplace today.



Individuality thanks to modularity



With its modular design, the Leica M525 F40 lets users adapt the system to their personal requirements. Leica offers surgeons, assistants and trainees optimal observation equipment for surgery at the head, spine or other areas of the body. Special value was placed on meeting the justifiably high ergonomic requirements of the users during development. An extremely wide range of quality accessories is also available for the documentation. A particularly noteworthy feature is the Leica Video Zoom Adapter with its unique 3× optical zoom and separate fine focus, which can be controlled in a sterile environment.



Leica Video Zoom Adapter

of laser systems.

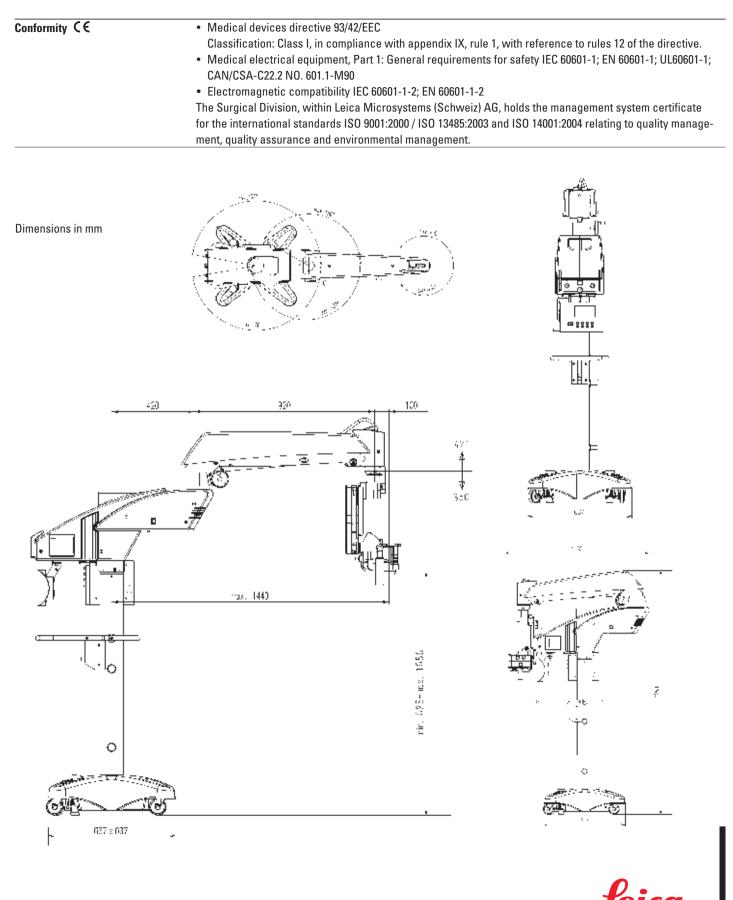






Technical data Leica M525 F40

Electrical data			
Power supply	100–230 V~, 50/60 Hz, 800 VA		
Classification	Class 1		
Туре	Туре В		
Leica M525 Microscope			
Magnification	6:1 zoom, motorized		
Working distance	207mm – 470mm, variable through motorized multifocal lens; manually adjustable		
Focusing	Motorized or manual via multifocal lens, manual via swing arm		
Eyepieces	Wide-field eyepiece for spectacle wearers 10× and 12.5×, dioptric setting +/– 5 with adjustable eye cup		
Objective	Multifocal lens, 207mm – 470mm variable working distance		
Main illumination	High performance 300-watt xenon lamp through fiber optic		
Illumination	Illumination field diameter with Gaussian light distribution		
Field diameter	Automatically adjusted to the field of vision and manually adjustable		
Emergency lamp	21V/150-watt halogen lamp through fiber optic		
Control unit	Graphic LCD data display with background illumination, menu provides up to 8 user-specific configurations		
	with built-in auto diagnostic system		
Optical data			
Magnification range	1.2× – 12.8× with 10× eyepiece		
Field of view diameter	16.5mm – 180mm with 10× eyepiece		
Leica M525 F40 stand			
Туре	Floor stand with 6 electromagnetic brakes		
Balancing	Manual balancing for the swing arm, manual balancing for the microscope carrier		
Hand grips	Controls for microscope zoom position, variable working distance via multifocal lens,		
	and for the six electromagnetic brakes		
Maximum load 10kg of accessories to the microscope			
Maximum range			
Range of up / down	e of up / down350mm/+421mm (771mm)		
Maximum transport height			
Weight with microscope	280kg		
fully loaded			
Accessories			
Leica ULT 500	180° stereo observer, Main / Assistant surgeon 40% each beam path,		
	Assistant / Video on selectable side 20% each beam path		
Second observer	Dual stereo attachment: 70% / 30%, stereo attachment for second observer for beam splitter		
Beam splitter	50% / 50% / 70% / 30%		
Binocular tube	Variable angle 0° – 180°, variable angle 30° – 150°		
Video Adapter	3:1 zoom, 35mm – 100mm focal length, c-mount, with fine focus		
Imaging	Leica DI C500 high resolution true color dual imaging module for correlated and		
	non correlated data display, 1024×768 pixel resolution, 256 grey scale		
Asepsis	Sterilizable protective glass for the objective; sterilizable components for all drive knobs, commercially		
	available drapes		
Laser	Various commercially available lasers and laser shutters can be attached		
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MICROSYSTEMS

Leica Microsystems worldwide



Leica Microsystems is active in the fields of microscopy, specimen preparation, image analysis, laser technology, medical technology, and equipment for the semiconductor industry. The international technology group headquartered in Wetzlar, Germany has grown from such traditional brand names as Leitz, Wild, Reichert, Jung, and Cambridge Instruments. Leica's division of Surgical Microscopy is located in Switzerland, known worldwide for quality and precision.

Made by Leica

Leica Microsystems develops innovative technologies and system solutions that offer high value to users worldwide. Leica quality has earned international respect. Our high-quality standards apply equally to all eleven of our production centers in seven countries.

At your service

Technology is just one key to the success of Leica Microsystems. Serving you is the other. Your local Leica representative is ready to give you friendly and competent advice – in your language and wherever you are. Prompt support and service have the highest priority at Leica Surgical Microscopy. We will handle all your needs directly and dependably. For us, that's just as normal as the perfect organization of our delivery, setup, and training services.

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"With the user, for the user" Leica Microsystems

Leica Microsystems operates internationally 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.

• Surgical Division

The Leica Microsystems Surgical 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

The Surgical Division, within Leica Microsystems (Schweiz) AG, holds the management system certificates for the international standards ISO 9001:2000 / ISO 13485:2003, and ISO 14001:2004 relating to quality management, quality assurance and environmental management.



