



- Visualize perfusion with high-quality Leica Optics and the Leica FL800 fluorescence module;
- Enjoy powerful xenon illumination and improved patient safety with the Autolris and BrightCare functions;
- Work in comfort thanks to vibration-free movements and a long reach for easy positioning in the OR;
- View and share surgical cases in high-definition on the integrated, movable HD 24" monitor;
- Benefit from quality and reliability thanks to the solid metal construction, and AgProtect antimicrobial nano silver coating.

Leica M525 F50

Surgical Microscope for Neurosurgery, Spine, ENT,
and Plastic Reconstructive Surgery

Living up to Life

Leica
MICROSYSTEMS

Technical Specifications

Electrical data	
Power supply	100–230 V~, 50/60 Hz, 800 VA
Safety class / type	Class 1 / Type B

Leica M525 microscope	
Magnification	6:1 zoom, motorized
Working distance	207 mm to 470 mm, variable through motorized multifocal length; manually adjustable
Focusing	Motorized or manual via multifocal lens, manual via swing arm
Eyepieces	Wide field eyepiece for eye glass wearers 10× and 12.5×, dioptic setting ±5 with adjustable eye cup
Objective	Multifocal lens, 207 mm to 470 mm variable working distance
Illumination	Two high performance 300-watt xenon lamps through fiber optic, illumination field diameter with Gaussian light distribution
Autolris	Built-in, automatic zoom-synchronized illumination field diameter, with manual override and reset feature
BrightCare	A synchronized light control system that adjusts illumination as working distances change

Optical data	
Range of magnification	1.2× to 12.8× with 10× eyepiece
Field of view	16.5 mm to 180 mm with 10× eyepiece

Microscope carrier	
Rotation of optics	540°
Lateral tilt	45° to left / 45° to right
Inclination tilt	-30° / +120°
Brakes	1 brake for A/B axis, 1 brake for C axis
Indicator	LED for fluorescence mode status, LED for video recording status
XY-unit (optional)	Motorized, movement range 62 × 62 mm, with automatic reset

Leica F50 floor stand	
Type	Floor stand with 6 electromagnetic brakes
Balancing	Manual balancing for the swing arm, manual balancing for the microscope carrier
Control unit	Second generation of Leica intuitive touch panel technology. The latest electronics control for continuous control of all motor functions and the light intensity. Data shown by means of LCD. Built-in BrightCare technology for working distance synchronized light control. ISUS Intelligent Setup System, menu selection based on unique software for user-specific configuration, with built-in electronic auto-diagnosis and user support. Software-independent hard keys for illumination and main power switch. Indicator for main/backup illumination and fluorescence mode. Open architecture for future software developments.
Controls	10-function pistol grips for zoom, focus, all-free release of six brakes, side button for user-defined brakes, motorized lateral tilt and inclination (XY) or Leica DI C500 functions. Except for the all-free button, all functions are freely programmable. 12-function foot control
Integration of documentation	Prepared for integration of video and digital recording systems. Open architecture

Connectors	Numerous built-in connectors for video, IGS, and control data transfer. Internal power 12 VDC, 19 VDC, and AC connections
Carrier for monitor	500 mm long, flexible arm with 2 axes for the rotation and inclination required to carry optional video monitor
Surface coating	AgProtect antimicrobial coating
Maximum range	1510 mm
Range of up / down	-335 mm / +421 mm (756 mm)
Transport height	Min. 1950 mm
Weight	Approx. 360 kg fully loaded

Accessories	
Leica ULT500	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° to 180° Variable angle 30° to 150°
Video adapter	Leica Manual Video Adapter (MVA), 55 mm to 107 mm focal length, c-mount, with fine focus Leica Remote Video Adapter (RVA), 55 mm to 107 mm focal length, c-mount, with fine focus Leica Zoom Video Adapter (ZVA), 3:1 zoom, 35 mm to 100 mm focal length, c-mount, with fine focus Leica NIR Dual Video Adapter (DVA), 60.6 mm to 79.5 mm 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 gray scale
IGS interface / compatibility	Open architecture for IGS systems
Fluorescence (optional)	Leica FL800 is available in USA, EU, and most countries
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

HD Imaging
For more information, please refer to the Leica Imaging brochure.

Standards
Guideline 93/42/EEC for medical products. Classification: Class I, in compliance with appendix IX, rule 1, with reference to rule 12 of the directive. Medical Electrical Equipment, Part 1: General Requirements for Safety IEC 60601-1; EN 60601-1; UL60601-1; CAN/CSA-C22.2 NO. 601.1-M90. Electromagnetic compatibility IEC 60601-1-2; EN 60601-1-2. 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. IEC/EN 60825-1 Safety of laser devices.

