





STAY FOCUSED WITH I HE LEICA M530 OH6

As a surgeon you have to remain focused on achieving the best clinical outcome for your patient. And on what matters in every single moment of the surgery. The Leica M53 0 OH6 has been designed to let you do just that by uniting the exclusive innovation FusionOptics with a truly ergonomic design.

Fusion 0 ptics technology combines
resolution and depth of field. The result is
amazing clarity of images. Along with one
other advantage: less need to refocus. Plus,
the truly ergonomic design allows you to
position the microscope effortlessly and
achieve a comfortable upright posture. Less
muscle tension or even pain means steady
concentration on your patient.



Stay focused with astounding optics

- > FusionOptics for high resolution with enhanced depth of field
- > Better visibility in deep cavities

See pages 4 to 5.



ERGONOMICS

Stay focused with optimized ergonomics

- > More space to work
- > Full integration
- > Flexible positioning for everyone
- > Superior man euverability

See pages 6 to 7.

CUSTOMIZABLE

Stay focused with customized solutions

- > Individually configurable
- > Modular for changing needs
- > Imaging upgrades made easy

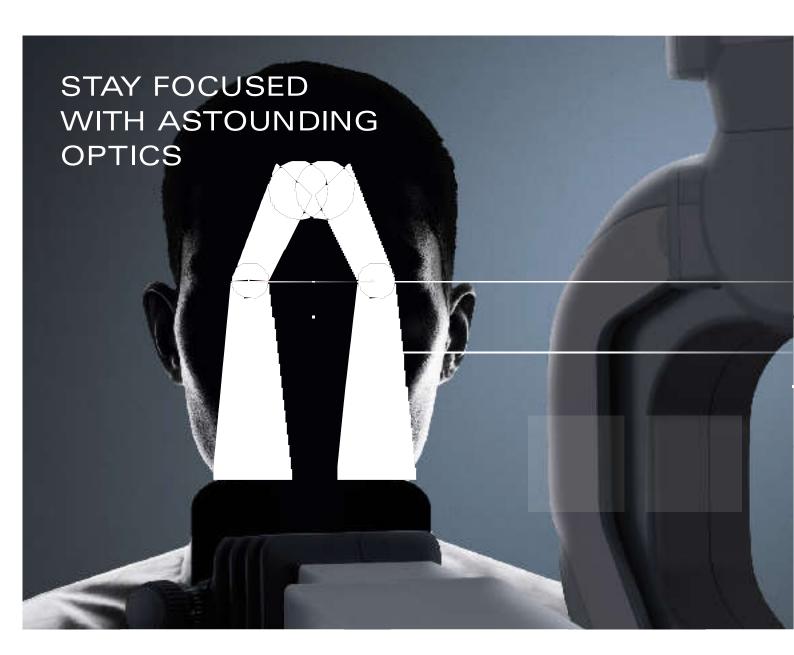
See pages 8 to 11.

TRIFLUORO

Stay focus ed with integrated fluorescence

- > Leica R.400 for oncological fluorescence
- > .eica R.580 for investigational fluorescence.
- > .eica R.800 for vascular fluorescence

See pages 10 to 11.



The Leica M530 OH6 takes image quality to a whole new level by combining FusionOptics with advanced illumination and apochromatic optics.

Visualize the linest details with FusionOptics

FusionOptics makes the impossible possible: large depth of field and high resolution in one image. This exclusive, groundbreaking technology from Leica Microsystems takes a new approach, utilizing the power of the human brain. First, it captures different information from each of the two beam paths. The left beam path delivers an image with the highest possible resolution and the right beam path provides an image with maximum depth of field. The brain then easily merges both images into a single, optimal spatial image. The astounding result: a significantly expanded area in full focus.

Less refocusing

FusionO ptics technology offers a further unique advantage with the potential to stream line your workflow. A larger area in full focus means less time spent refocusing. FusionO ptics helps you to stay focused, in every sense of the word.









Magnification Multiplier



Rear Fine Focus



Fast focusing

Customizable optics

Choose from the range of customizable optics and adapt the Leica M530 OH6 to your preferences:

- > Additional 40 % magnification boost with the Magnification Multiplier (optional)
- > Independent line focus for the rear assistant with a range of +/- 5 diopters
- > Fast focusing with two laser beams acting as a focusing reference to quickly provide a defined focus point for all three viewing points (surgeon, assistant, camera)
- > A range of binoculars, all adjustable to different heights and positioning due to full 360 $^{\circ}$ -rotation



Comfortable working posture and large free working space during a spine surgery

STAY FOCUSED WITH OPTIMIZED ERGONOMICS

Working in the most comfortable position possible is crucial during long surgeries.

That's why the Leica M530 OH6 is designed to fully adapt to you and your individual needs. Its comprehensive ergonomic concept was developed in close cooperation with leading surgeons, transferring their demands into intelligent ergonomic features. With less physical distraction, you can stay even more focused on the critical task at hand.

Easy handling for efficient workflow

- > Un obstructed access to surgical area with market-leading 600 mm working distance. Enables use in spine procedures where previously only loupes could be used
- > Easy to maneuver and pass large instruments below the instrument
- > Compact optics carrier design means less distance from eyepiece to objective lens so arms can remain in a natural position and are not over-extended
- > Accommodates different operating positions and body frames with a range of binoculars, all with full 360 °-rotation
- > Enhanced comfort and flexibility for the rear assistant with improved ergonomic design.





du e to full $3\,60^\circ$ -rotation.

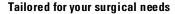
unmatched flexibility. Fast stabilization keeps workflow interruptions to a minimum

even through a sterile drape, simply push the AC/BC button, conveniently located above the optical head.

STAY FOCUSED WITH CUSTOMIZED SOLUTIONS

Equipped for the present, ready for the future. with maximum modularity for individual configurations.

Configure your Leica N630 OH6 to meet your needs perfectly. Its sleek, cable-free, fully integrated optics carrier was developed with a highly modular structure to specifically guarantee maximum configuration flexibility. Plus, keeping your imaging technology up-to-date just became so much easier. The OpenArchitecture and unique upgrade-ready designing ive you the possibility to upgrade whenever you choose.



Thanks to the different optic carriers available for the Leica M530, you can customize your surgical microscope to best lityour requirements whether neurosurgery, spine procedures, ENT, or plastic and reconstructive surgery.



Ultra obs erver

The Leica ULTS30 is the standard configu-

ration for neurosurgery, spine and plastic reconstructive surgery. Left, right and rear assistant interfaces and optional integrated Leica HD C100 camera, Leica FL800, Leica FL400 and Leica FL500 fluorescence modules offer maximum flex ibi lity.



Integrated video adapter

The compact design of the Leica IVA530 offers an ideal solution for otol aryng ology and neurotology. With no opposite assistant, more light is directed to the main surgeon and side assistant for even greater visual enhancement. The integrated vide o adapter has a built-in depth enhancer, for outstanding screen display and recording.





Image injection

The top plate configuration is designed for

attachment of the Leica DT C500 dual imaging color module. The Leica DT C500 allows the surgeon to inject data directly into the eyepiece, from external and internal sources, such as MRI, CT, IGS, endoscopes and Leica FL800 video sequences.















Three-dimensional view for all

Integrated True Vision 3 D visualization and recording is also available. 3D imagery can greatly enhance microsurgery education, providing staff and students with the same 3D view as the surgeon during live surgery or a seminar. With TrueVision Smart 3D built in, set-up time is minimized and OR space freed up. 3D functions are controlled directly via the handles, avoiding work flow interruptions.

Fully integrated and under control

All cameras, fluorescence modules and cables are fully integrated inside the optics carrier to provide a sleek, clean appearance, maintain cable integrity and deliver greater freedom of movement. Control the HD 2D and 3D image recording functions or switch between white light and fluorescence via the handgrip or optional mouth and foot switches.

Ready for today and tomorrow

The modular, OpenArchitecture design of the optics carrier allows easy integration of systems such as the user-friend ly Med X Change HDMD full HD digital recording system or Image Guided Surgery (IGS). Upgrade easily when your requirements change or when new imaging techniques or surgical guidance applications become available.



Well-prepared for current and future types of surgical fluorescence - the Leica M530 OH6 with TriFluoro*.

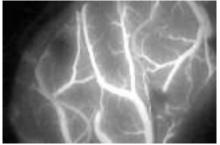
The Leica M530 0 H6 can be supplied with three types of fluorescence fully integrated: Leica FL400 for oncological fluorescence, Leica FL800 for vascular fluorescence and Leica FL560 for investigational fluorescence. With only a few button clicks, you can easily switch from white light to fluorescence mode or between fluorescence filters. The brilliant HD fluorescence vide o can be easily viewed on screen and recorded. For best viewing results, the built-in Mode Control vide o technology automatically optimizes the settings of specific, optional cameras according to the selected mode.





Gli o blas to ma tumo r view ed w ith Le ica FL400 and 5-AL A $\,$

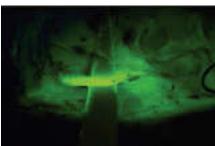
FL400 on cological fluorescence
The fluorescence module Leica FL400 for
M530 is used in conjunction with 5-ALA
fluorescent agent for characterization of
tumor tissue in open neurosurgery.



Neur ovascular structure vie wed with Leic a FL 800 and IC \mbox{G}

FL800 vascular fluorescence

The Leica FL800 ULT intraoperative videoangiography module is used in conjunction with ICG fluorescent agent and allows surgeons to see blood flow through vessels in real-time during surgery.



Lymphatic draina ge pa thway viewe d with Leica FL $560\,$

FL580 fluorescence

The Leica FL560 for M530 module is designed to enable fluorescence observation of fluorophores with an excitation peak between ~460 nm and ~500 nm (blue) and fluorescence emission observation comprising the green, yellow, and red spectrum in a spectral band above ~510 nm.



The Leica M530 OH6 offers innovative illumination solutions, fail safes and design features to help you optimize patient safety and minimize interruptions.

Luxmeter for consistent lighting

BrightCare Plus compensates for decreased light intensity as bulbs age to ensure consistent lighting. With the internal luxometer providing real-time light intensity data to the BrightCare Plus system, light intensity is calculated on actual bulb output, not by using an algorithm or formula.

Protection for team and patients

The Leica M 530 OH6 features a special AgProtect coating for superior hygienic conditions. This surface coating with antimicrobial nano silver minimizes pathogens on the microscope as well as possible transmission to team members.

Made to withstand

The microscope's solid, full metal construction is highly robust. Designed and built for intensive use in the operating room, all the while maintaining its high level of precision and value.

OPTIMAL LIGHT INTER

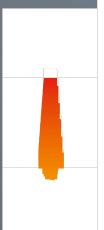
BrightCare Plus optimizes the light intensity re working distance.

Max. i llum in atio

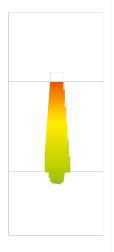
Max. illum in ation (Brigh tCare Plus i nactive)

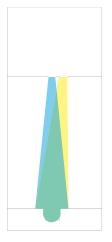


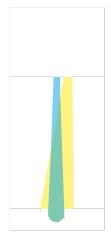
Long working distance.

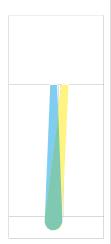


Decre ased working distance at same illumination setting (left) creates burn potential in convention al micro scopes.











Safe, ma xim um brigh tness

Maximum brightness at all times The efficient light transmission of the Leica

M530 O H6 ensures that the maximum possible amount of light is always being provided. Therefore, you can operate at safer light levels and still see more than ever before.



Bright 400-Watt Xenon light

Reliable illumination system

The Leica M530 OH6 features two redundant 400 W xenon arc-lamp illumination systems, with independent lamps and boards. In case of lamp or board failure, the microscope automatically switches to the second illumination system.



Separate operating sysetms for vide oand microcope

Stay operational

To ensure full operability the microscope and the video have fully independent operating systems. In case of a video system failure, the microscope retains full functionality and surgery can continue uninterrupted.

TECHNICAL SPECIFICATIONS

OPTICS AND ILLUMINATION

OFFICS AND ILLUM	UPTICS AND ILLUMINATION		
Fusian Boties	For the eased decim of field and high resolution for main surgeon		
Eu yacadi smafe	For righteentrast, ratural eders without		
duties	enomaticate rations		
Vagrification	6:1 zeem, materized		
Total magnification	1.0x to 12.1x with 10x eyeplece		
Vagrification	1.4x/sctfishait		
multiclier			
Facus	Motorized via multifocal lens, with		
	matua adjustment		
Fine facus	u5 diocter available for obtosite assistant (JUT)		
Bajective /	226–600 mm, motorized multifocal lens.		
working distance	continuous y adjustable and manual		
	adjustment soften		
Pield of view	17 /I to 210 mm k With 10 k eyec/ede		
Eyeldiedes	Wilderfield eyecledes for cersons wearing		
	ig asses 8.3 x, 10x and 12.5 x dicotric adjustment, u5 dicoter settings and		
	adjustacie eyecuc		
Integrated 3600	For main surgeon of social (IW), JUI land		
rotatable adapter	spossite assistant (JET)		
Lumination	- High-output 2x 400-Woledundant sensin		
	archamo systems via fice roctics cacle		
	 Continuous y variable il umination field diameter with Gaussian distribution 		
	- Configuracy adjustable original essant		
	constant color temperature		
Speed Spot	Laser focusing aid for fast and exact		
	casitianing of the microscope		
MANEUVERABILITY			
Baties	- 5101 ofation		
	- 50° atera titito effland ight - 30° /4120° inclination tit		
XY sceed	Zoom Tirked XY speed		
Baarding	Gre buttor/two busineers better automatic balancing of stand and obtics		
Intracce rative	Automatic intraductrative AC/BC		
da a reing	calaneing of AD and BD axes		
3ਕ ⊲ ≈ 	Foot stand with 6 electromagnetic chakes		
Vilora≋esse	"Advanced Vovement" system with		
carrier	vioration damping technology		
Carrier formation	700 mm flexible arm with 4 axis for station and inclination		

MODULARITY

Leica J.J. 330 - Full stered view for main surgeon and opposite assistants - High sensitivity, built-in IR video came a with 1/2" CCD - Cotional integrated HD Camera (Leica HD 0100) - Light distribution: 50% for main surgeon, either 20% for each side assistant or 40% for opposite assistant ceica FL800 J.J. Light with the Leica FL800 vascular
teloa PL200 JLD — ILD with the teloa PL200 vascular
fluorescence dose vation filter module
Leica FLA00 Leica FLA00 oncological fluorescence observation if termodule
Leica FLEEC Leica FLEEC investigational fuorescence observation if termodule
IVA63C - Full stered view formain surgeon, semilatered view for 2 side assistants and C-mount interface forcame is (HD and D) - Light distribution: 67% for surgeon, 23% for side assistant, 20% for C-mount cont
Leica D10500 doccasite assistant, semi sterec view for up to 2 side assistants - Data injection - Botional: C-mount interface for camera (HD or SDI, FL800 function, FL400 function
Giten Architecture - Basy integration of IGS and lake in systems (clease askyour Leica Vilorosystems replese traffice) - Precared for integration of video came a system and digital recording system
Dannectors - Nume rous cullit-in connectors for video. 130 and control data transfer - Internal cower supply 12 VDC, 16 VDC, and AC terminals.
20/30 H0 Video Fully integrated 20 H0 and/or30 H0 Video and recording

CONTROL

CUNTRUL	
Cantra unit	 Fing rammable fount-screen with users friendly Graphical User Interface for control of microscope and stand ISUS Interigent Satura System Built-in electronic auto-diagnosis and user support Software independent hand keys for itumination and auto-balancing Indicator for main/packupi itumination and fluorescence modes
Carts elements	 Fistoriandle with 10 drag ammable functions Botional mouthswitch Botional 12-function wireless footswitch
B sensor	Leica FL400 direc ogical if udrescence observation filter module

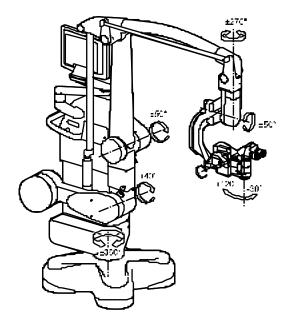
SAFETY	
Autolife	Built-in automatic zoom-synonichized illumination field diameter, with manual override and reset feature
Bright Care Flux	Safety function through working distance- decendent limitation of the originhess, controlled by a built-in luxometer.

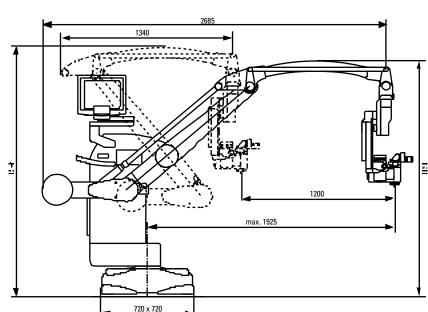
CONSTRUCTION

720 × 720 mm with four 3800 retailing castors with a diameter of 130 mm each.
id te carking diake
Λ , so idimetal construction coated with autimic coda loal if
Vin.6.7 kg, max, 12.2 kg from microscope dovetal infing interface
Approx. 820, eg without load
LEDa for Hudrescence mode status and video record status

TECHNICAL DATA

Ample if conditions in use	 +10 10 to +40 10 +30 19 to +104 19 3030 to 3330 religionidity 800 most to 1030 most stresseries desse en
Fawe rear tection	- 1800 VA 50/80 Hz - 100 VI 120 VI 220 VI 240 VI (410 KI/+16 KI) - 2 × T10 AL 100/120 VI - 2 × T8 AL 220/240 VI
Fistection class	Dass 1







REGULATIONS AND STANDARDS

Class I surgical micro scope Le ica M $\!5\,30$ OH6 inc I. accessories Class II a FL80 0 ULT

CE₁₂₅₀

- > C oun cil D ire cti ve 93/42/EEC on Med ic al De vice s (MDD) and it s amendments.
- > IEC 60601-1 / EN 60601-1 Medical Electronical Equipment, Part 1: General requirments including national differences of EU, CA, US.
- > IEC 60601-1-2 / EN 60601-1-2 Electromagnetic Compatibility.

The Medical Division, within Leica Microsystems (Schweiz) AG, holds the management system certificate sfor the international standards ISO 9001, ISO 13485, and ISO 14001 relating to quality management, quality assurance and environmental management.

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