

New Leica M720 OH5 – the World's Most Compact Neurosurgical Microscope with Horizontal Optics

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HEERBRUGG, SWITZERLAND. By incorporating horizontal optics for the first time, Leica Microsystems is writing a groundbreaking chapter in the history of optics design. The optics carrier is so compact that the surgeon naturally adopts a healthy working posture. Whatever the position of the patient, even sitting upright, operations can be performed without arm, back or neck strain. The microscope allows hours of fatigue-free work.

A significant increase in working space with variable focus provides free access to the operating area, greater instrument maneuverability and an optimal view. The Leica M720 OH5 supports the surgeon as he works; he can see more and see better, work even more safely and generally benefit from the perfect ergonomics.

Individually adjustable components for optimal cooperation

No two people are the same. Thanks to individually adjustable components, the Leica M720 surgical microscope provides optimal ergonomic conditions for concentrated and precise work and an excellent view. The two binocular tubes have a swivel range of 115° and feature the innovative butterfly technique, which enables the eyepieces to be swung to a second viewing plane with a simple hand movement. If desired, the tube can be locked in one of five defined positions simply by pressing the ErgoLock™ button. This improves the ergonomics and the stability, which is a particular advantage when using a mouth switch. The microscope can therefore be matched optimally to both the surgeon and his assistant, irrespective of body height, position of the operating area or the microscope.

Fast, confident and precise focusing

Thanks to the SpeedSpot™ feature, a simple hand movement focuses the microscope – there is no need to follow the movement through the eyepiece. If the two laser spots overlay, the surgeon can be sure of a razor-sharp image. As a focusing reference, SpeedSpot™ guarantees a brilliant image at all ports (surgeon, assistant, documentation).

Innovative optics combined with superb illumination

The Leica M720 OH5 surgical microscope ideally combines original Leica APO OptiChrome™ Optics and a 300 Watt xenon illumination system to give the surgeon a steady clear and sharply focused image for the entire duration of the operation.

As working distance decreases, the maximum possible light intensity value is reduced: The working distance-controlled BrightCare™ feature ensures that the light intensity does not surpass safety levels. The magnification-controlled illumination diameter AutoIris™ automatically matches the illuminated area to the field of view. This prevents heating of tissue outside the surgeon's field of observation.

Mobile and modular – today and tomorrow

The patented mobility concept of the Leica OH5 stand is based on the proven OH4 system. Thanks to its magnificent reach, it offers the surgeon and the whole operating team a level of maneuverability unattained by competitor products. The system is remarkable for its precise and harmonious balance of maneuverability and extremely easy movement.

Operating techniques change – who knows what the future may bring? Leica Microsystems' principle of OpenArchitecture™ and modular design provides the latitude for unforeseen adaptations and new accessories.

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Leica Microsystems is a leading global designer and producer of innovative, high-tech, precision optical systems for the analysis of microstructures. It is one of the market leaders in each of its business areas: Microscopy, Confocal Laser Scanning Microscopy with corresponding Imaging Systems, Specimen Preparation, and Medical Equipment. The company manufactures a broad range of products for numerous applications requiring microscopic imaging, measurement, and analysis. It also offers system solutions for life science including biotechnology and medicine, research and development of raw materials, and industrial quality assurance. The company is represented in over 100 countries with 9 manufacturing facilities in 7 countries, sales and service organizations in 19 countries and an international network of dealers. The international management is headquartered in Wetzlar, Germany.

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