Leica ULT 500

Leica Ultra Observer for Flexible Co-Observation

Leica
MICROSYSTEMS

Superior Optics

Important: The Leica ULT 500 features a switching lever for assistant output – side or rear, video and assistant ports.

More light than ever before

Leica's OptiChrome™ optics with silver coating, used in combination with the Leica ULT 500 Ultra Observer Module, transmits more light with higher efficiency. Leica's efficient illumination management delivers additional light to the surgeon for a brighter and better view, while at the same time maintaining safer, lower illumination levels.

The unique integration of the assistant ports provides light only to the definitive users and leads to a visible increase of brightness as compared to conventional solutions. Leica's new optical design allows the best possible and most flexible adaptation of the observers – as well as the video option for all aspects of cranial and spinal surgery.

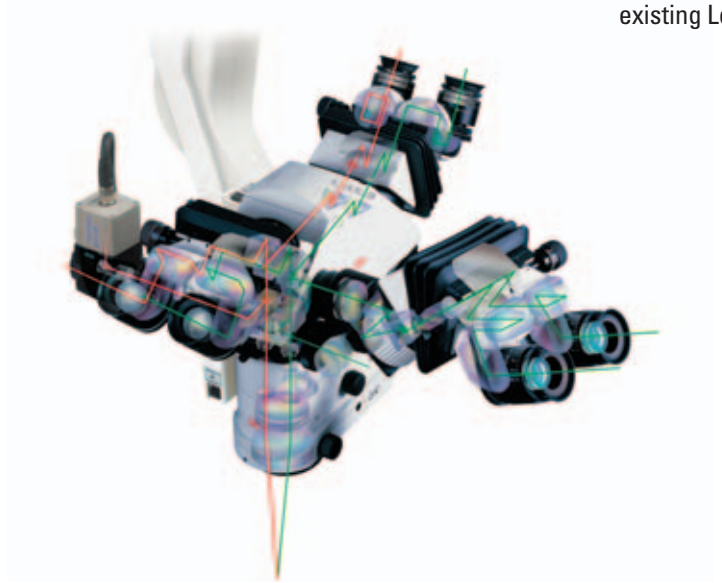
Fluorescence ready

The Leica ULT 500 is prepared for surgical fluorescence applications. To observe ICG (IndoCyanine Green) images of fluorescence angiography cases with a bright, clear view, the Leica ULT 500 delivers 100% of the near infrared images to the video output port and to the NIR detecting camera.

Modular

The Leica ULT 500 Ultra Observer is modular and compatible to all existing Leica M500 Series surgical microscopes.

Beam path of Leica ULT 500 with Leica M525 Optics.



Ergonomic Design for Comfort

Ergonomic design

The ergonomically designed Leica ULT 500 features an attachment angle of 45°, coupled with a variety of Leica binocular options to accommodate the surgeon and assistant comfortably. The result – less distance between the microscope's eyepieces and the operative site to support every surgery situation, even special cases such as posterior fossa.

Easy and relaxed

Built-in 30° binocular rotation plates allow the surgeon and assistant to reorient their binoculars when the optical head is tilted in acute side-to-side positions.

Leica's extra low design provides short observation distances.

Leica M525 Optics with Leica Ultra Observer; the 30° binocular rotation plate allows the surgeon to reposition his or her binoculars.

Technical Data Leica ULT 500

Observation			
Surgeon stereo observer	45% per eyepiece		
Assistant left, mono observer	35%[1], 17.5% per eyepiece[1]	[1] switchable output: rear stereo assistant output or left and right mono observer	
Assistant right, mono observer	35%[1], 17.5% per eyepiece[1]		
Assistant rear, stereo observer	35% per eyepiece		
Video adaptation left	20%, 100% near infrared for Leica FL800 vascular fluorescence device		
Video adaptation right	20%, 100% near infrared for Leica FL800 vascular fluorescence device		
Ergonomics			
Integrated tube adapter, 30° rotating	surgeon and assistant		
Physical dimensions			
Weight	3.4kg		
Dimensions	230mm × 150mm × 114mm		
Standards	IEC601, UL544, EN 60601-1/ -1-1/ -1-2		
Compatibility			
Optics carriers	Leica M525, Leica M520, Leica M500 N		
Stands	Leica M525 OH4	Leica M520 OH3	Leica OH3
	Leica M525 F40	Leica M520 MS3	Leica MS3
	Leica M525 C40 / CT40	Leica M520 MS2	Leica MS2
	Leica M525 MS3	Leica M520 OHS1	Leica OHS1
		Leica M520 F40	Leica MS1
			Leica MC1

Conformity CE

- Medical devices directive 93/42/EEC
  Classification: Class I, in compliance with appendix IX, rule 1, with reference to rules 10 and 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

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

Winner 2005

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