



# Leica ULT 500

Leica Ultra Observer: Flexible Co-Observation

**Leica**  
MICROSYSTEMS

# Functional optics



Important detail of the Leica ULT 500:  
Switching lever for assistant output –  
side or rear

## More light

The new Leica Ultra Observer Module offers perfect light management of the observation beam paths without loss of light.

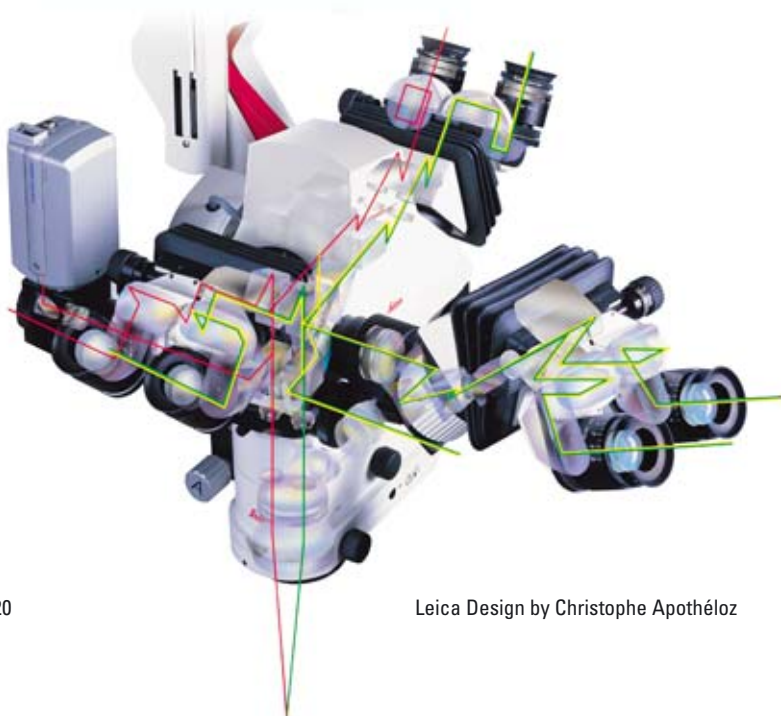
The unique integration of the assistant ports provides light only to the definitive users and leads to a visible increase of brightness as compared to conventional solutions. The new optical design allows for the best possible and flexible adaptation of the mono observers – as well as the video option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

## Flexible

Ease of operation supports the functional availability in all situations – an important plus for the outstanding image quality of the Leica M520 series.

## Modular

The advantages of the Leica Ultra Observer can naturally be transferred to existing Leica microscopes with Leica M500 N and Leica M520 optics carriers: MC1, MS1, MS2, MS3, OHS1 and OH3.



Beam path of Leica ULT 500 and Leica DI C500 with Leica M520

Leica Design by Christophe Apothéoz

# Ergonomics

## Short design

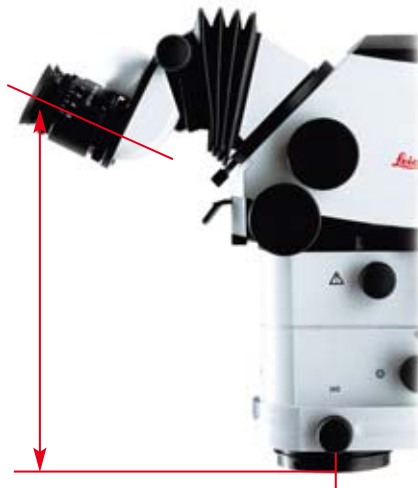
The ergonomics of the Leica ULT 500 results from the 45° tube adaptation and choices for different Leica tubes.

The result – a shorter height from eyepieces to operative site – supports every surgery situation, even special ones such as posterior fossa.

## Easy and relaxed

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

The feather-light touch of the Leica M520 optics carrier in combination with the Leica Ultra Observer is ensured by a complete balancing.



Short observation distances because of extra low design



Leica M520 with Leica DI C500 or Leica Ultra Observer, ergonomic horizontal position of tube despite an optics carrier in tilted position

# Technical data Leica ULT 500

## Observation

Surgeon stereo observer	40% per eyepiece	
Assistant left, mono observer	40% <sup>1</sup> , 20% per eyepiece <sup>1</sup>	<sup>1</sup> switchable output: rear stereo assistant output or left and right mono observer
Assistant right, mono observer	40% <sup>1</sup> , 20% per eyepiece <sup>1</sup>	
Assistant rear, stereo observer	40% per eyepiece	
Video adaptation left	20%	
Video adaptation right	20%	

## Ergonomics

Integrated tube adapter, 30° rotating	Surgeon and assistant
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## Physical dimensions

Weight	3.4kg
Dimensions	230mm × 150mm × 114mm

<b>Standards</b>	IEC601, UL544, EN 60601-1/-1-1/-1-2
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## Compatibility

Optics carriers	Leica M520, Leica M500 N
Stands	Leica M520 OH3    Leica OH3
	Leica M520 MS3    Leica MS3
	Leica M520 MS2    Leica MS2
	Leica M520 OHS1    Leica OHS1
	Leica M520 F40    Leica MS1
	Leica MC1

## Conformity with standards

- Medical electrical equipment, Part 1: General requirements for safety UL 2601-1, Second edition, CAN/CSA – 22.2 No. 601.1 – M 90 and IEC 60601-1
- Electromagnetic compatibility IEC 60601-1-2
- Directive 93/42/EEC concerning medical devices

The Business Unit SOM, within Leica Microsystems (Schweiz) AG, holds the management system certificates for the international standards ISO 9001/EN 46001 and ISO 14001 relating to quality management, quality assurance and environmental management.