

From Eye to Insight



## ARveo 8x - Hybrid Surgical Microscope

### ADVANCING YOUR SURGICAL EXPERIENCE

Introducing ARveo 8x: our new hybrid surgical microscope for neurosurgery, spine, and plastic surgery. ARveo 8x delivers our best optical and 3D digital views, giving you precision, flexibility, and freedom to work your way.



#### EXPERIENCE

##### OUR BEST OPTICAL VISUALIZATION

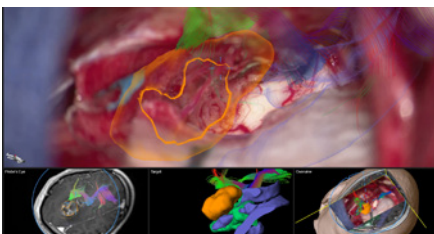
- > Get an optimal view with the best Leica surgical optics.
- > Ensure patient safety with advanced illumination for tissue protection.
- > Enhance surgical precision with advanced fluorescence imaging solutions.



#### EXPERIENCE

##### MAXIMIZE SURGICAL COMFORT & EFFICIENCY IN TEACHING

- > Level up your comfort with 3D 4K exoscopic surgery.
- > Enhance teaching with one 3D view for all.
- > Stay focused with intuitive and ergonomic controls.



#### EXPERIENCE

##### ENHANCED DIGITAL CONNECTIVITY

- > Benefit from seamless data integration from compatible surgical devices.
- > Switch easily between optical and digital visualization.
- > Rely on simple microscope settings and image documentation.

# Technical Specifications

## OPTICS AND ILLUMINATION

FusionOptics	For increased depth of field and high resolution for the main surgeon
Objective lens	Apochromatic
Magnification	6:1 zoom, motorized optional magnification multiplier
Objective / working distance	225–600 mm, motorized multifocal lens, continuously adjustable with manual adjustment option
Eyepieces	Wide-field eyepieces for people wearing glasses
Observation	Full stereo view for main surgeon and opposite assistant, semi stereo view for two side assistants
Integrated 360° rotatable adapter	For main surgeon and opposite assistant binoculars
SpeedSpot	Laser focusing aid for fast and exact positioning of the microscope
Illumination	<ul style="list-style-type: none"> <li>- Two 400-watt Xenon arc-lamp systems with independent power supply</li> <li>- Light transmission via fiber optics cable</li> <li>- Continuously variable illumination field diameter</li> <li>- Continuously adjustable brightness at constant color temperature</li> <li>- Automatic activation of second illumination</li> </ul>
Autoliris	Built-in automatic, zoom-synchronized illumination field diameter, with manual override and reset feature
BrightCare Plus	Safety function through working distance-dependent limitation of the brightness, controlled by built-in luxmeter

## MANEUVERABILITY AND CONTROL

Stand	Premium overhead stand with long reach, designed for stability and durability
Robotic function	<ul style="list-style-type: none"> <li>- Motorized XY movement</li> <li>- Externally controllable (optional)</li> </ul>
Control	- Programmable handles
Balancing	<ul style="list-style-type: none"> <li>- Automatic balancing of stand and optics</li> <li>- Automatic intraoperative balancing</li> <li>- Manual fine balancing</li> </ul>
Microscope carrier	Advanced Movement system for balancing six axes and vibration damping technology
Carrier for monitor	Flexible arm with four axes for rotation and inclination

## MODULAR OPTIONS

GLOW800 Augmented Reality fluorescence	<ul style="list-style-type: none"> <li>- Fluorescence excitation 790 nm</li> <li>- Fluorescence signal 835 nm</li> <li>- Two 1/1.2" high sensitivity HD cameras for white light imaging</li> <li>- Two 1/1.2" high sensitivity HD cameras for fluorescence imaging (NIR)</li> <li>- 2D and 3D visualization</li> </ul>
FL400 fluorescence	FL400 blue light fluorescence module
FL560 fluorescence	FL560 fluorescence module
2D/3D video options	<ul style="list-style-type: none"> <li>- 4K 2D 27-inch monitor</li> <li>- 4K 3D 32-inch monitor on microscope</li> <li>- 4K 3D optional 55-inch monitor cart system</li> <li>- Integrated auto focus</li> <li>- 3 digital zoom levels</li> <li>- Integrated 4K upscaling software via HDSOI-connector</li> </ul>
OpenArchitecture*	- Easy integration of IGS systems and video system feeds, e.g., from an endoscope
Leica Recording System	<ul style="list-style-type: none"> <li>- Fully integrated 2D/ 3D recording</li> <li>- Optimized data processing &amp; connectivity for DICOM /PACS</li> </ul>
Integrated Air Removal System	<ul style="list-style-type: none"> <li>- One-button drape air removal system</li> <li>- Compatible with surgical microscope drapes of leading manufacturers</li> </ul>
Additional controls	<ul style="list-style-type: none"> <li>- Mouthswitch to activate multi-directional movement</li> <li>- 12-function wireless footswitch</li> </ul>
Cyber Security	<ul style="list-style-type: none"> <li>- MDS2 Medical Device Security</li> <li>- Comply with international standards such as ANSI/UL</li> </ul>

## TECHNICAL DATA

Power connection	- 1300 VA 50/60 Hz
ARveo 8x	- 100 V - 240 V / 50 - 60 Hz
Protection class	- Class 1
Materials	- Entire solid metal construction coated with a paint which is designed to provide an antimicrobial effect on surfaces
Load	<ul style="list-style-type: none"> <li>- Swing arm: min. 6.7 kg, max. 12.2 kg from microscope dovetail ring interface</li> <li>- Monitor arm: max. 16kg</li> </ul>
Total weight	Approx. 335 kg (without load)

\* Please contact your local sales representative for more information.



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Class IIa ARveo 8x and GLOW800

Class I surgical microscope accessories

Not all products or services are approved or offered in every market and approved labeling and instructions may vary between countries. Please contact your local Leica representative for details.



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<https://go.leica-ms.com/arveo8x>

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