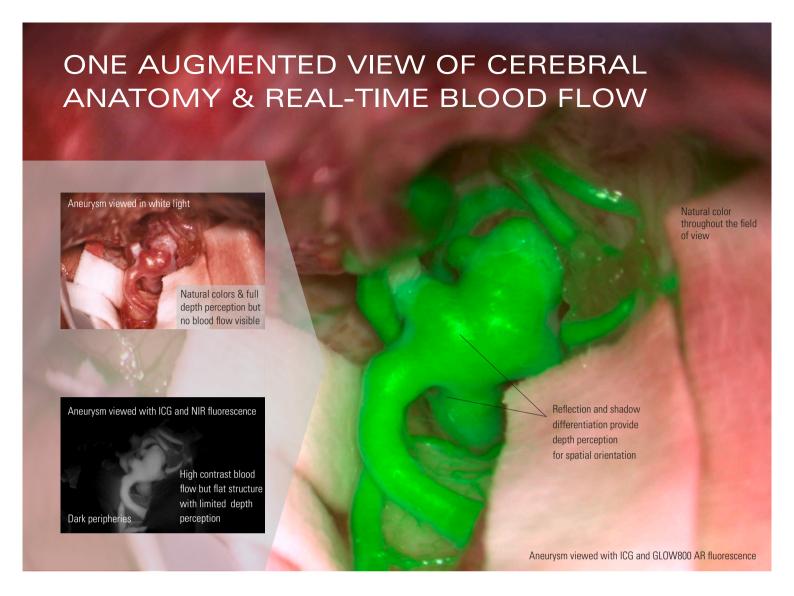
From Eye to Insight







Observe cerebral anatomy in natural color, augmented by real-time vascular flow, with full depth perception, for confident interventions.

Full visualization of blood flow and anatomy during cerebrovascular procedures is critical for a confident assessment and decisions. In the past you could only view flow by pausing surgery and watching the black and white near infrared (NIR) fluorescence video, which meant losing depth perception and anatomical detail. Now with GLOW800 augmented reality (AR) fluorescence you have everything in one: Naturally-colored anatomy, vascular flow and full depth perception in a single, augmented, real-time view!

One complete picture of the cerebrovascular region

- > No more mental gymnastics to recall and reconcile the black and white blood flow video with the natural anatomical view
- > Crisp delineation helps you limit potential compromise or obstruction of surrounding perforators and small vessels
- > Depth perception without dark peripheries supports clear spatial orientation, aiding manipulation of vessels

View blood flow without interrupting workflow

- > No need to pause surgery to watch a black & white NIR fluorescence video, just activate GLOW800 mode and continue working
- > AVM, aneurysm, bypass, or microvascular decompression, you always have the full view you need to confidently work in GLOW800 mode, even if there is an unexpected bleed
- > Full integration with your ARveo or M530 microscope means onetouch activation of GLOW800 mode via handgrip or footswitch

GLOW800 support the steps of your vascular neurosurgery

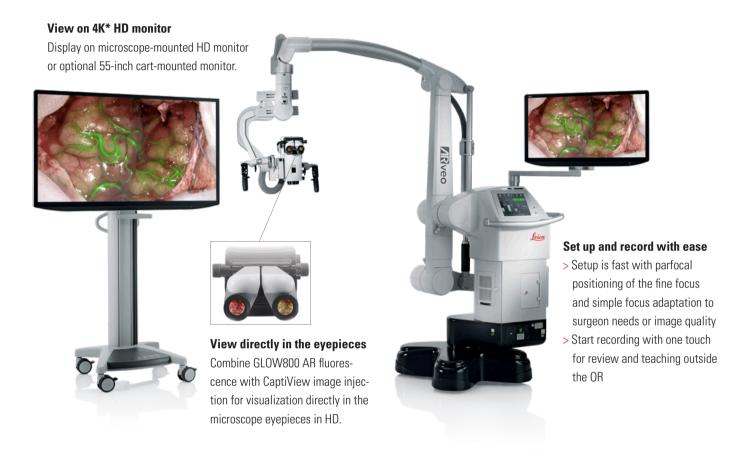
Visualization with GLOW800 AR supports each step of a surgery, for example during aneurysm clipping, it helps you:

- > Assess clip placement and aneurysm occlusion
- > Check if all branches proximal and distal to the clipped aneurysm are perfused and whether there is orthograde filling of the blood vessels
- > Confirm the clip has not caused any compromise of surrounding blood vessels, such as kinking or partial obstruction





Select from a range of pseudo colors from magenta through cyan to green according to your preference and for optimal contrast to the tissue.



AUGMENTING YOUR REALITY: GLOW AR

The technology behind GLOW800

Building on a decade of leadership in fluorescence imaging technology, GLOW800 fluorescence is the first of many modalities based on proprietary GLOW AR technology from Leica Microsystems.

- > A sophisticated multispectral imaging sensor is able to simultaneously capture multiple spectral bands of visible and fluorescent light
- > A real-time algorithm optimizes each spectral band for faithful natural coloring of tissue and accurate representation of fluorescence intensity
- > Images are combined for a single, augmented view of the surgical field

Enhance your OR with 3D

The GLOW AR platform also offers optional 3D display and recording of the white light image to enhance your teaching program.

Own the platform of the future

The GLOW AR platform is designed to be fully upgradable when new GLOW imaging technologies are added in the near future so you can stay at the cutting edge of technology!





TECHNICAL SPECIFICATIONS GLOW800

MICROSCOPE COMPATIBILITY

New and existing

ARveo

M530 0H6

M530 0HX*

TECHNICAL DATA

Fluorescence excitation	790 nm
Fluorescence signal	835 nm

Contact your local Leica representative for availability information.

Images courtesy of Cleopatra Charalampaki, MD, PhD, Professor of Neurosurgery, Department of Neurosurgery, Cologne Medical Center, Germany, Kyousuke Kamada, MD, PhD, Professor and Chairman, Department of Neurosurgery, Asahikawa Medical University, Japan, and Prof. Jacques Guyotat, Hôpital Neurologique Pierre Wertheimer, Lyon, France.



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Regulations and Standards

Class IIa GLOW800

- > Council Directive 93/42/EEC on Medical Devices (MDD) and its amendments.
- > IEC 60601-1 / EN 60601-1 Medical Electronical Equipment, Part 1: General requirements 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 certificates for the international standards ISO 13485 relating to quality management, quality assurance and environmental management.

CONNECT WITH US!

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^{*} Not all configurations of M530 OHX are available in all regions