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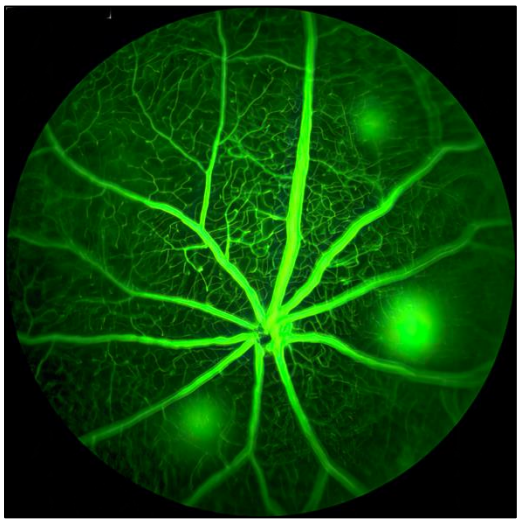
Image-Guided 532 nm Laser

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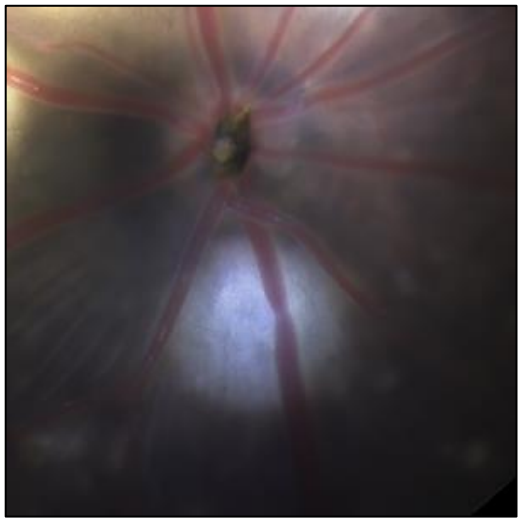
The MICRON Image-Guided 532 nm Laser system, with patented LT2 optics, is designed to induce retinal CNV and RVO damage as part of *in vivo* small animal ophthalmic research. The laser system combines easy targeting with real-time color or fluorescent retinal imaging to visualize the retina before, during, and after laser damage to document laser delivery.



Aiming beam with laser burns of varying intensities on a mouse



Post laser fluorescein angiography



Laser induced retinal vein occlusion (RVO)

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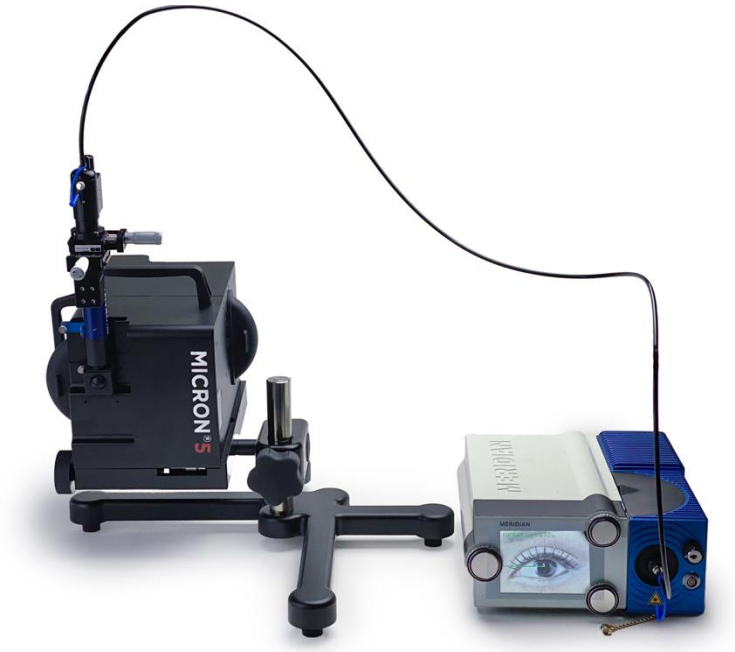
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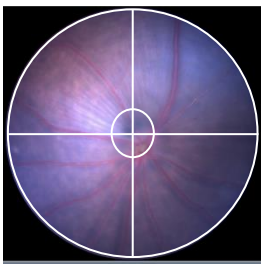
MICRON 5 with Image-Guided 532 nm Laser System

Precise laser delivery
Image-guided targeting of laser positioning for all skill levels

Longitudinal Documentation
Real-time fundus imaging for laser positioning before, during and after delivery

Supporting Key Research Areas
Supports research into retinal damage mechanisms; regeneration; ischemia; choroidal neovascularization (CNV) and retinal vein occlusion (RVO)

Easy Targeting
Image-guided targeting using **MICRON Software Suite (MSS)** combines fundus magnification and target overlay with full color or fluorescent imaging, making alignment, focusing, and energy delivery fast and repeatable.



Crosshairs target overlay

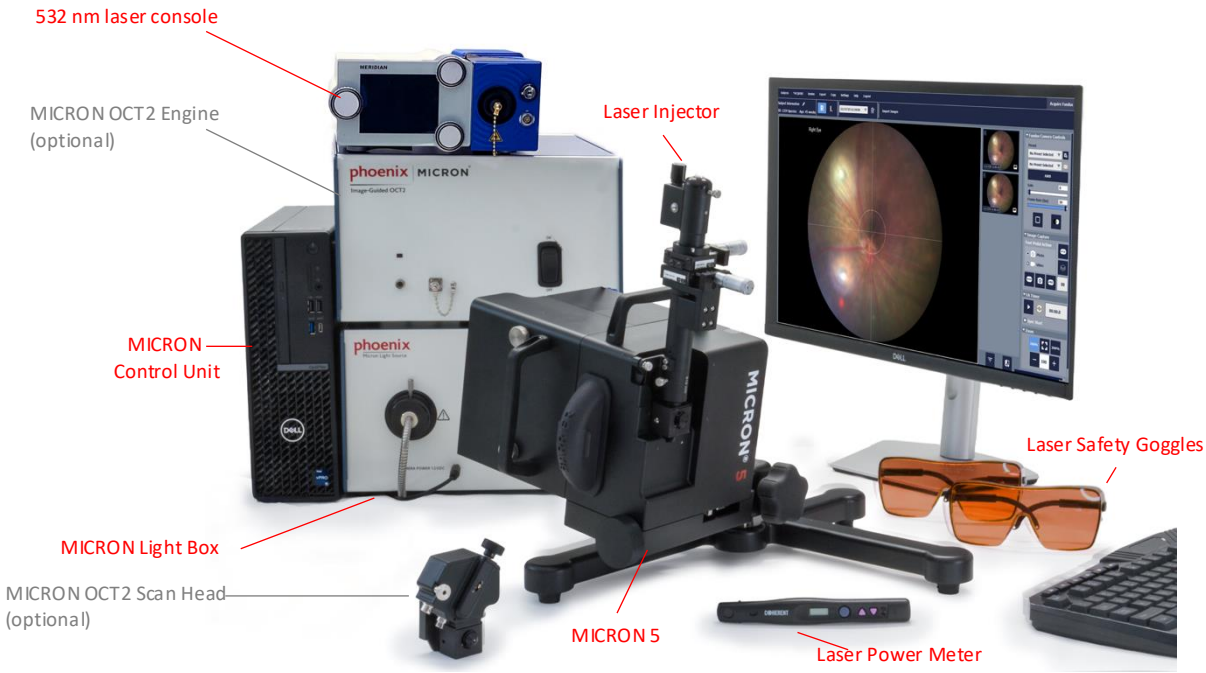
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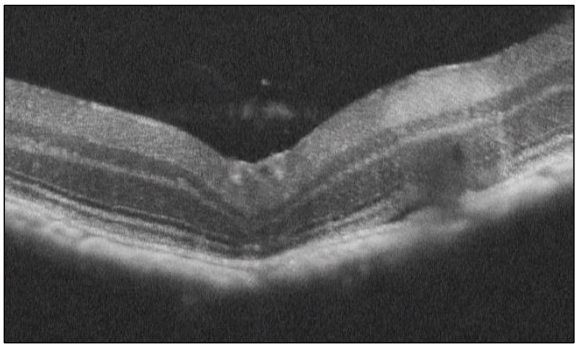
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MICRON 5 with Image-Guided 532 nm laser and optional OCT2 system

Pair with the Optional MICRON Image-Guided OCT2 to Confirm Laser Delivery

LT2 lens technology makes it easy to switch from laser delivery to OCT imaging with the MICRON Image-Guided OCT2 system. This allows researchers to observe the efficacy of the laser burns in a single imaging session.



OCT of laser-induced break of Bruch's membrane

Gel coupling stabilises the eye

With the cornea coupled to the objective lens using a gel interface, the eye is stabilized against movements from respiration, and delivered power is more consistent than through open air. The coupling gel maintains hydration of the cornea, reducing the chances of media opacification.

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Image-Guided 532 nm Laser

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Specification	Details
Laser Source	532 nm green laser photocoagulator
Safety Classification	Class 4
Laser Wavelength	532 nm
Power Output	50 to 2000 mW
Pulse Duration	10 to 5000 ms
Pulse Interval	10 to 5000 ms
Cooling	TEC
Aiming Beam	Diode 635 nm, (0-9 mW in 9 steps)
Lenses	Separate objective lenses for mice and rats
Spot Size	50 µm
Dimensions	25.0 x 22.0 x 10.5 cm
Total Weight	7.0 kg
Power Requirements	100 to 240 V, 50/60 Hz, 2 A max.

The 532 nm laser source is a CE-marked component manufactured to IEC 60601-1, IEC 60601-1-2, IEC 60825-1 and IEC 60601-2-22. The MICRON Image-Guided Laser system is an instrument for in vivo small animal research. For research use only. Not for human diagnostic or therapeutic use. Specifications subject to change without notice.

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Compatible with MICRON 5 **and** MICRON IV **Cameras**

MICRON Image-Guided Laser is a modality add-on to both MICRON IV and MICRON 5 cameras.

1200+	**Since 2012**	**7**	**5**	**2**
Peer-reviewed papers citing MICRON data	Innovating patented small animal imaging technology	Modalities on the MICRON 5	The latest generation MICRON Camera	Camera platforms

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