

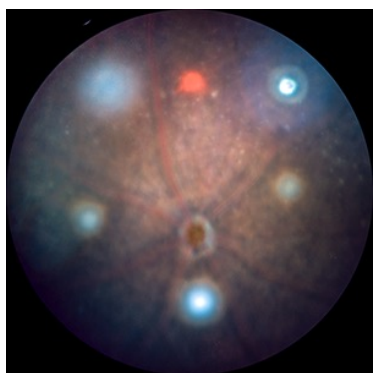


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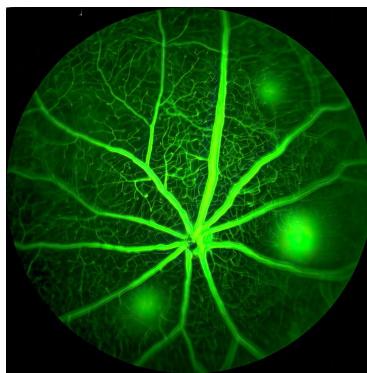
Image-Guided 532 nm Laser

On the web: <https://phoenixmicron.com> Email us at: sales@phoenixmicron.com

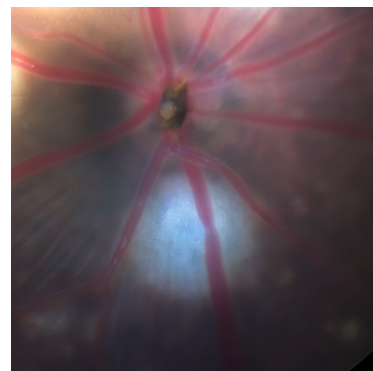
The **MICRON 532 nm Laser** system is designed to induce retinal CNV and RVO damage as part of *in vivo* small animal ophthalmic research. The laser system combines easy targeting with real-time color or fluorescent retinal imaging with to visualize the retina before, during, and after laser damage to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



Aiming beam with laser burns of varying intensities on a mouse



Post laser fluorescein angiography



Laser induced retinal vein occlusion (RVO)

Precise laser delivery

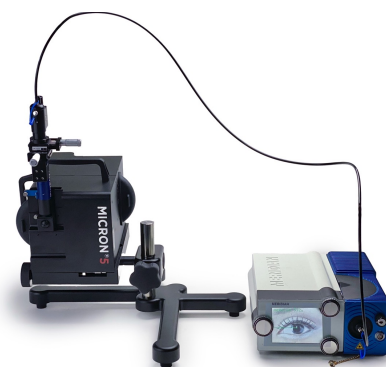
Image-guided targeting of laser positioning for all skill levels

Longitudinal Documentation

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

Research Areas

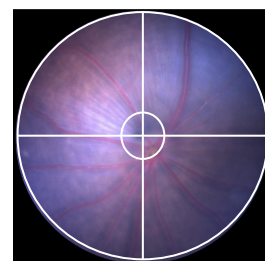
Supports research into retinal damage mechanisms; regeneration; ischemia; choroidal neovascularization (CNV) and retinal vein occlusion (RVO)



MICRON 5 with 532 nm laser console

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



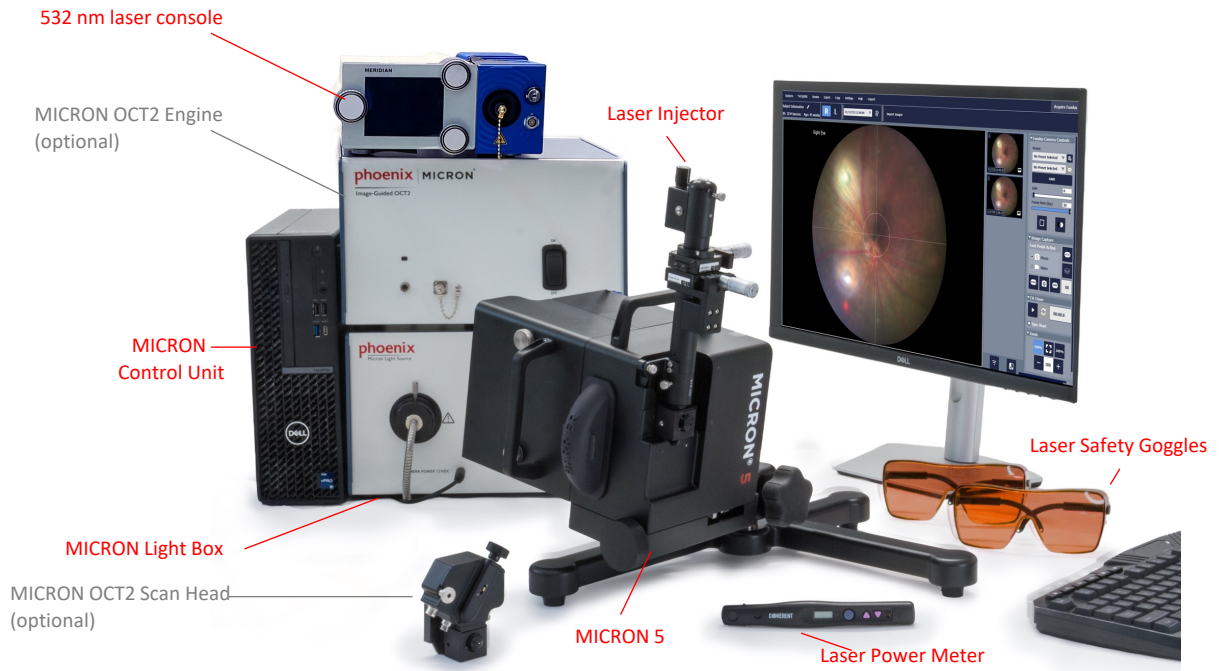


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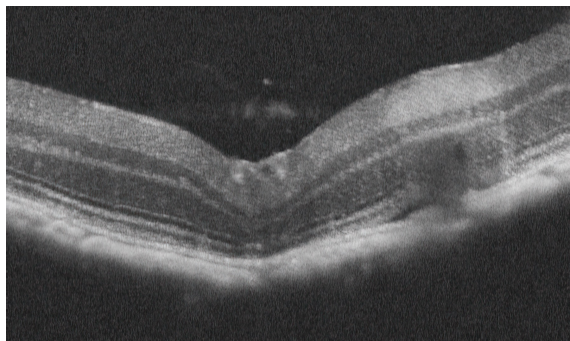
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MICRON 5 with Image-Guided 532 nm laser and optional OCT2 system

Pair with the optional MICRON OCT system to Confirm Laser Delivery Results

With LT2 lens technology, it is 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

Clear advantages

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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Specification	Details
Laser Source	Meridian Merilas 532 alpha green laser photocoagulator
Safety Classification	Class 4
Laser Wavelength	532nm
Power Output	50 – 2000 mW
Pulse Duration	10– 5000 ms
Pulse Interval	10– 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 – 240 V, 50/60 Hz, 2 A max.

*All technical specifications are subject to change without notice. In accordance with the international general safety standards: IEC 60601-1:2005/AMD1:2012,, IEC 60601-1-2:2014, MDD 93/42/EEC. The laser safety is in accordance with the international standards: IEC 60825-1:2014 and IEC 60601-2-22:2007/AMD1:2012.





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Image-Guided 532nm Laser

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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.

1000+

Published papers that incorporate MICRON data

15+

Years of experience innovating patented small animal imaging technology

8

Imaging modalities, in a compact footprint

5

The latest generation MICRON Camera

2

Camera platforms

