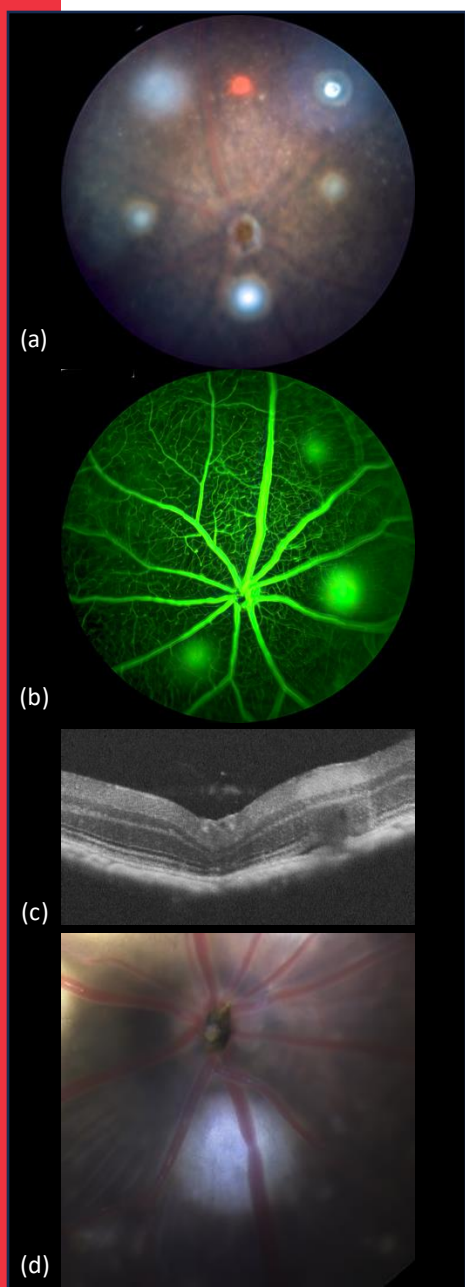




MICRON[®]

Image-Guided 532 nm Laser

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



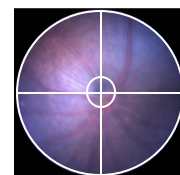
Images from Image-Guided Laser (top to bottom): (a) Aiming beam with laser burns of varying intensities on a mouse, (b) Post laser fluorescein angiography, (c) OCT showing laser-induced break of Bruchs membrane, (d) Laser induced retinal vein occlusion (RVO)

Compact, precise laser delivery

The MICRON Image-Guided Laser system allows lab technicians at all skill levels to deliver precise laser energy to target areas of the subject animal retina, facilitating research into the mechanisms of retinal damage, regeneration and ischemia. The system provides a live retinal view for laser positioning, and the ability to capture before and after still and video images, improving data capture for longitudinal studies.

Easy Targeting

Laser targeting using image-guidance is easy and precise with magnification of the fundus image and using the target overlay in MICRON Software Suite. Simply align the animal to the MICRON objective lens, position and focus the aiming beam, adjust the laser settings and deliver the energy. Image guidance can be done with full color or fluorescent images, aiding in targeting the laser.



Crosshairs target overlay

Pair with OCT to Confirm Laser Burns

With the new 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.

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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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

1

Integrated multi-modality **system**

8

Imaging modalities, designed for exacting small animal ophthalmic research





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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.

