

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



Compact, Precise Laser Delivery

The MICRON Image-Guided 810nm Laser Systems employ near-infrared wavelengths to selectively penetrate and target the retinal pigment epithelium (RPE)-choroid complex while minimizing impact on surrounding retinal structures. Tailor your rodent research setup with the flexibility to **choose** between a **Short Pulse (SP)** console or **Continuous Wave (CW)** system – each designed to deliver consistent laser output with real-time tissue visualization.

Easy Targeting

Laser targeting using image-guidance is easy and precise. Simply align the cornea to the MICRON objective lens, adjust the laser parameters and deliver the energy to observe and document the resulting ablation effect. Capture images and video before and after treatment, for detailed documentation of longitudinal geographic atrophy (GA) progression.

Clear Advantages

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

Pair with OCT to Confirm Pre/Post Laser Burns

Switching from laser delivery to OCT imaging with the MICRON Image-Guided OCT2 system allows researchers to observe the efficacy of the laser burns in a single imaging session and follow structural changes over time.

Images courtesy of Ichor Life Sciences





On the web: https://phoenixmicron.com

Email us at: sales@phoenixmicron.com

MICRON Image-Guided 810nm Continuous Wave (CW) Laser

Specification	Details			
Laser Wavelength	808 +/- 5nm			
Operating Mode	Continuous Wave (CW)			
Fiber core diameter	400 mm			
Input power	100-240VAC			
Maximum Delivered Power	500 mW			
Laser Source	CNI 808nm fiber coupled laser			
Aiming Beam	635nm 9 mW, power adjustable in 9 steps			
Footprint	33.0 (L) x 29.1 (W) x 15.6 (H) cm			
Weight	10.0 kg			
Lenses	Separate objective lenses for mice and rats			
Laser class	Class IV. Includes laser safety goggles; laser is coupled to the eye when triggered, resulting in no laser light emitted in the room.			
Input power	100-240VAC			
Operating Temperature	10-35°C			
Warm Up time	< 5 minutes			
Laser certification	ISO, FDA, RoHS, CE			

Phoenix-Micron, Inc. | 543 NW York Drive, Suite 100 | Bend, OR 97703 | USA | +1.541.668.7539







On the web: https://phoenixmicron.com

Email us at: sales@phoenixmicron.com

MICRON Image-Guided 810nm Short Pulse (SP) Laser

Specification	Details		
Laser Wavelength	808 +/- 5nm		
Operating Mode	Short Pulse (SP)		
Fiber core diameter	400 mm		
Input power	100-240VAC		
Maximum Delivered Power	500 mW		
Laser Source	CNI 808nm fiber coupled laser		
Aiming Beam	635nm 9 mW, power adjustable in 9 steps		
Pulse width	500 ms @ output power 1W, single pulse		
Footprint	33.0 (L) x 29.1 (W) x 15.6 (H) cm		
Weight	10.0 kg		
Lenses	Separate objective lenses for mice and rats		
Laser class	Class IV. Includes laser safety goggles; laser is coupled to the eye when triggered, resulting in no laser light emitted in the room.		
Input power	100-240VAC		
Laser certification	ISO, FDA, RoHS, CE		

Phoenix-Micron, Inc. | 543 NW York Drive, Suite 100 | Bend, OR 97703 | USA | +1.541.668.7539



© 2025 Phoenix-Micron, Inc. All rights reserved. MICRON is a registered trademark of Phoenix-Micron, Inc. MICRON products are covered by one or more issued or pending patents, including US patent 7,993,000



Image-Guided 810nm Lasers

On the web: https://phoenixmicron.com

Email us at: sales@phoenixmicron.com



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.

1	n	C	n	+
- *	v	v	U	-

Published papers that incorporate MICRON data 15+ Years of experience innovating patented small animal imaging technology **1** Integrated multimodality system **8** Imaging modalities, designed for exacting small animal ophthalmic research



© 2025 Phoenix-Micron, Inc. All rights reserved. MICRON is a registered trademark of Phoenix-Micron, Inc. MICRON products are covered by one or more issued or pending patents, including US patent 7,993,000