phoenix | MICRON™ Laser System

Compact, precise laser delivery

The Phoenix MICRON Image-Guided Laser System is user-friendly, producing precise, easy-to-deliver laser energy to facilitate research into the mechanisms of retinal damage and regeneration.

Easy Targeting

Laser targeting using image-guidance is much easier and more precise with magnification of the bright field image. Simply align the animal to the Phoenix MICRON IV, position and focus the aiming beam, adjust the laser settings and, deliver the energy.

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.

Comprehensive Research Support

The Phoenix MICRON IV design delivers a unique proposition for image-guided eye research tailored specifically for laboratory animals. The Phoenix MICRON IV platform supports a family of additional turnkey research instruments including Slit Lamp Imaging, Image-Guided Focal ERG, and Image-Guided OCT. Unlike stand-alone adaptations of human instruments, the Phoenix MICRON range of products interface directly with the Phoenix MICRON IV to support your comprehensive image-guided studies. With a broad range of applications including basic research, toxicology, pharmaceutical efficacy testing, and neurological research, the Phoenix MICRON IV is sure to fuel scientific discoveries which are at the heart of our Phoenix Technology Group mission.

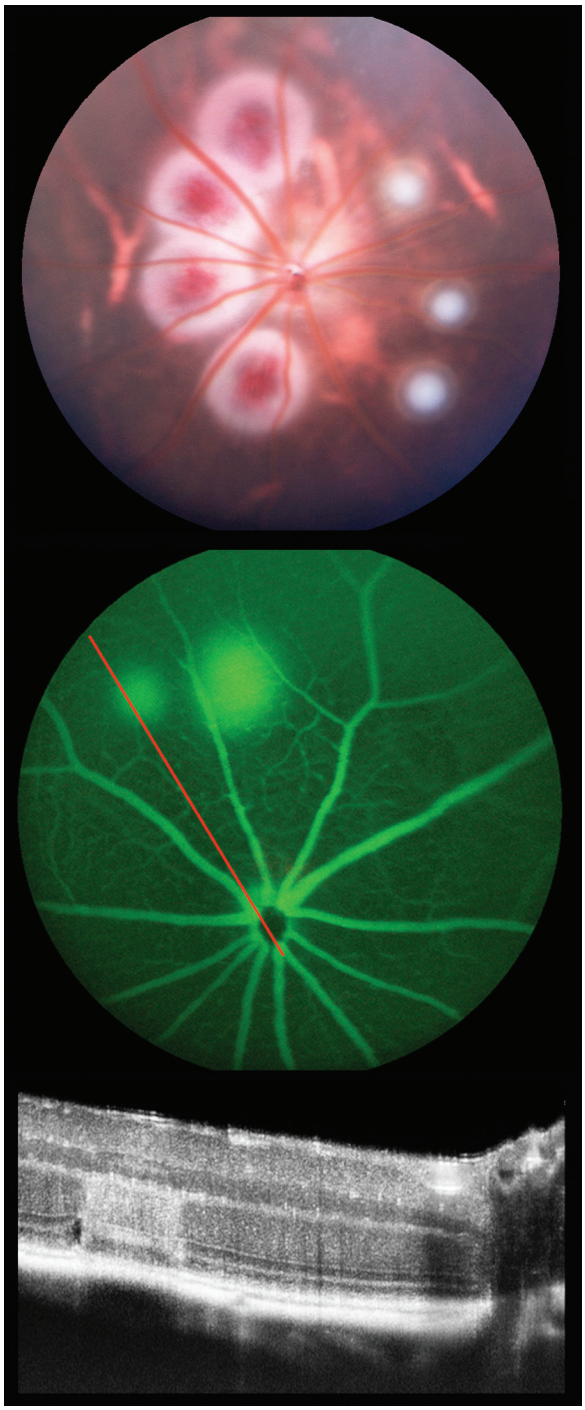

Image-Guided Laser System
(top to bottom): Laser burns of varying intensities on a rat, fluorescein angiography on mouse with OCT beam overlay, corresponding OCT of penetration of laser burn on mouse.

Publication quality

Use the bright-field image as a guide to place the aiming beam on target areas. Easily capture photographs or videos for publications or presentations to strengthen research documentation. Integration with the Phoenix MICRON IV Retinal Imaging Microscope enables the recording of pre-post laser treatment spots as well as documentation of longitudinal studies.

Designed for small animals

The Phoenix MICRON Image-Guided Laser System is coupled with the Phoenix MICRON IV Retinal Imaging Microscope, both of which are designed specifically for small animal research. No additional lab bench space or clinical slit lamp delivery system is needed.

The compact, easy to use, Phoenix MICRON Image-Guided Laser makes research into retinal ablation simple.

Laser Specifications:

Laser wavelength	532 nm
Spot size	50 µm
Aiming beam laser wavelength	635 nm
Pulse duration	0-5 seconds
Maximum delivered laser power	500 mW
Laser Source	Meridian Merilas 532 green laser photocoagulator
Lenses	Separate laser objective lenses for mice and rats

* Integrated with the phoenix Micron Retinal Imaging Microscope and associated hardware

phoenix TECHNOLOGY GROUP

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