



Image-Guided OCT2

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

Real-time image-guided OCT

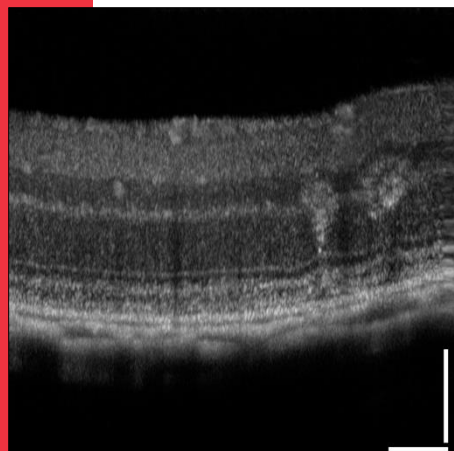
The MICRON[®] Image-Guided OCT2 system has been designed specifically for the demands of *in vivo* research using mice and rats.

The OCT scan head attaches to the MICRON retinal imaging system and requires no additional bench space in the laboratory.

Live color or fluorescent images are presented to guide OCT scanning, documenting retinal features and OCT scan position. Captured images include both the fundus image and the OCT scan.

Features:

- Real-time, live fundus display alongside real-time OCT scan presentation
- 1.8 micron axial resolution
- 1.4 mm imaging depth, providing deep penetration into the sclera
- Tunable frame averaging to improve OCT scan fidelity
- Line, circle, and 3D volume scan patterns
- Separate objective lenses optimized for mice and rats
- 2D and 3D segmentation tools, including interactive 3D visualization

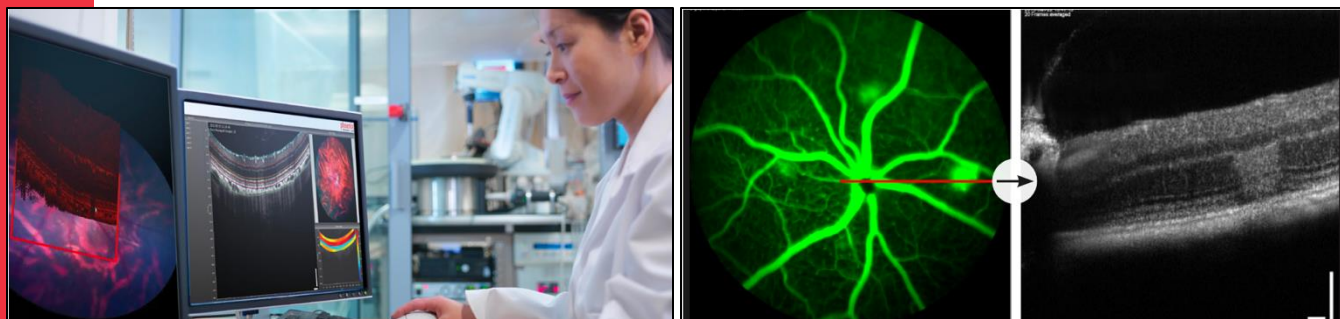




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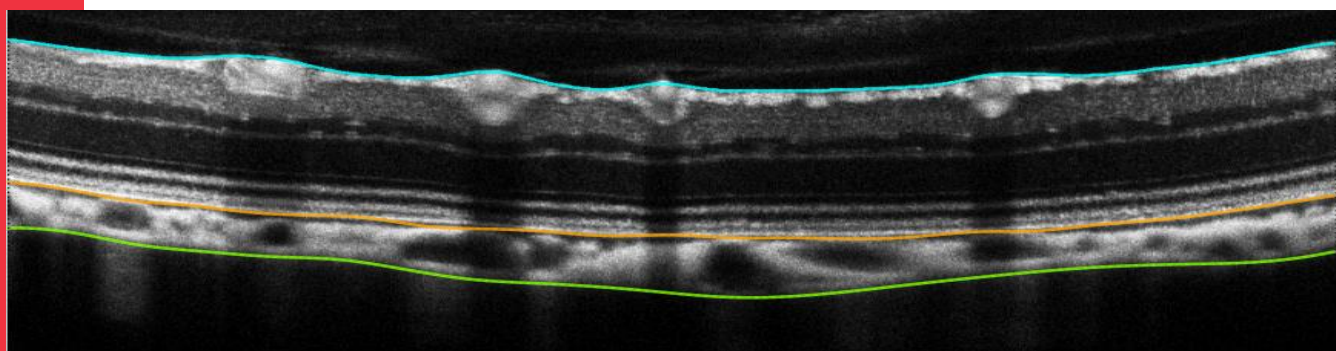
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OCT scans guided by angiography

Longitudinal studies of vascular and other fluorescent structures require precise location of the scan during each imaging session. Real-time fluorescent fundus display improves retinal visualization during OCT scanning and captures paired fundus / OCT images for further analysis.



Built-in OCT Segmentation Tools

2D and 3D OCT scans can be segmented for analysis using InSight 2D or InSight 3D OCT segmentation software. Retinal location, OCT scan data, and segmentation results can be saved for comparison across imaging sessions.





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Compatible with MICRON 5 and MICRON IV Cameras

MICRON Image-Guided OCT2 is a modality add-on to both MICRON IV and MICRON 5 cameras.

For MICRON IV, contact your Phoenix-Micron sales representative to help configure the system and determine if a MICRON Control Unit and/or software upgrade is required

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
Methodology	Spectral Domain OCT
Image guidance	Bright-field live fundus image
Light source	Ultra broadband (160nm) SLD centered at 830 nm
Longitudinal resolution	1.8 μ m
Transverse resolution	3 μ m
Imaging depth	1.4 mm in tissue
Imaging speed	13,000 A-scans per second
Pixels per A-scan	1,024
Maximum output power	750 microwatts
File formats	TIFF
Scan Patterns	Line, Circle, 3D Volume
Animal models	Mouse, rat, zebrafish
Objective Lenses	Separate MICRON OCT objective lenses for mice and rats
Analysis tools	MICRON Software Suite: control real time placement of OCT scan
	InSight software: segment 2D and 3D OCT images with automated assistance and layer measurement and visualization

