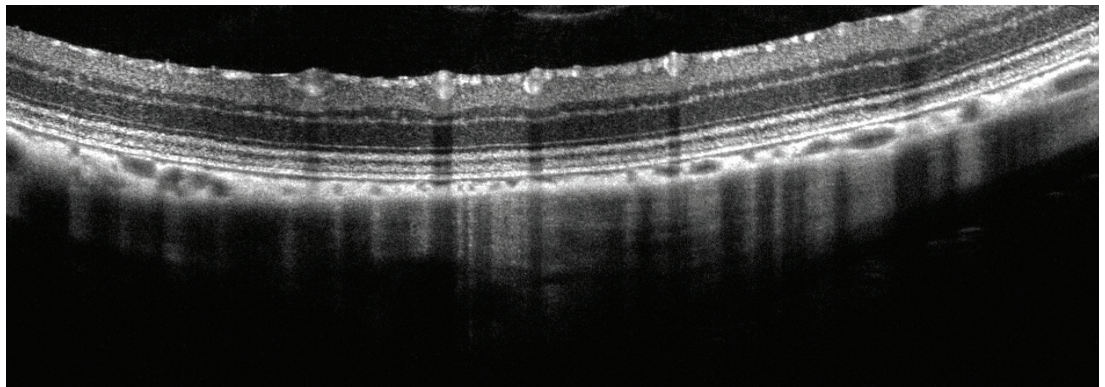
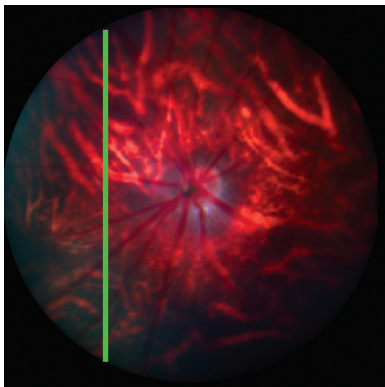
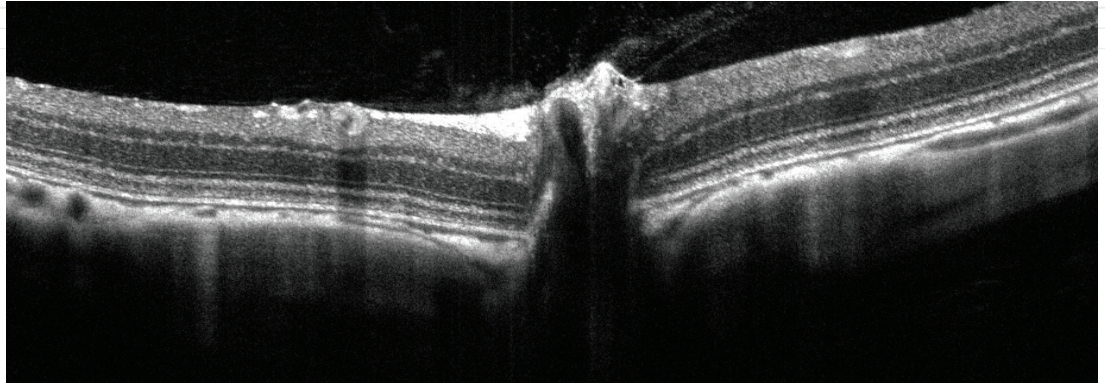
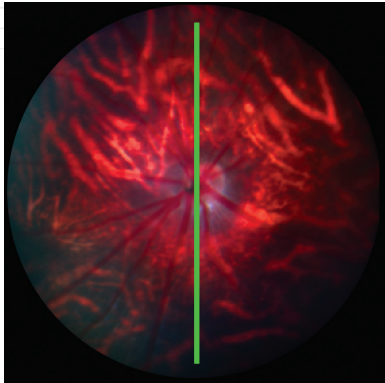


phoenix | MICRON[®] OCT2



The Phoenix MICRON image-guided OCT displays scan line location on the retinal image simultaneous with the OCT data.

Real-time image-guided OCT

Phoenix MICRON **OCT2** represents a leap forward in OCT imaging. Optimized for eye research in mice and rats, Phoenix MICRON **OCT2** provides stunning images with its resolution below 2 microns longitudinally. The OCT scan head is integrated onto the Phoenix MICRON IV retinal microscope and requires no additional bench space in the laboratory.

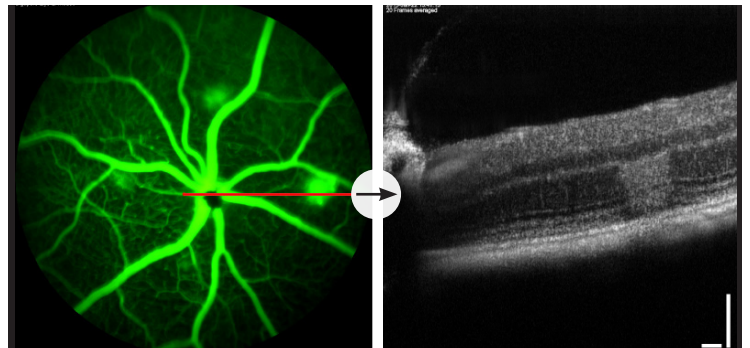
Documenting the precise location of an OCT scan is now possible. A line is superimposed over the vivid Phoenix MICRON IV image to document the location of the OCT scan. This cohesive and detailed OCT scan information is displayed in real-time.



Adding the **OCT2** scan head takes only minutes; avoiding separate sedations that some animals cannot tolerate without a calendar time delay.

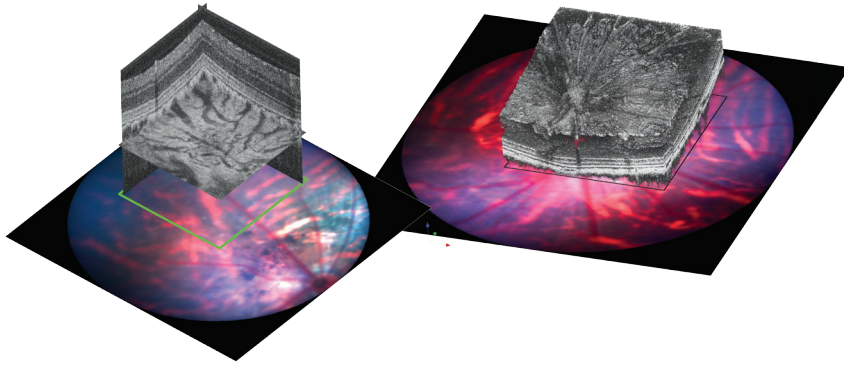
Longitudinal studies for better research

Comprehensive *in vivo* retinal studies using OCT and bright field images with corresponding angiograms can be completed during the same session. Precise documentation of the OCT scan location enables accurate longitudinal studies not previously possible. Document the layers in histologic detail by OCT and correlate the time points of imaging with a tissue sample at the end point of the study.



OCT scans guided by angiography

Longitudinal three-dimensional studies of vascular and other fluorescent structures require precise location of the scan at each imaging session. The Phoenix MICRON **OCT2** scan can be precisely guided from a real-time fluorescein angiogram, giving you the capability to respond to findings as you discover the retinal structure and investigate key features.



A new way of visualizing structures

Our revolutionary new OCT software, **Reveal**, integrates a 3D layer display with our vivid bright field images to reveal new insights into the retinal structure. Scroll through the 3D layer to reveal vascular and layer details never seen before.



Eliminate motion artifacts

Respirations of the animal can cause translational movements, which can blur the image. Our Phoenix MICRON IV uses a coupling gel interface between the objective lens and the animal eye to eliminate motion artifacts and reduce the possibility of anesthesia induced cataracts.



Using your recorded OCT data, our intelligent eye segmentation software, **InSight**, can be employed to segment retinal layers automatically or interactively.

Specifications:

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 μm
Transverse resolution	3 μm
Imaging depth	1.4 mm in tissue
Imaging speed	13,000 A-scans per second
Pixels per A-scan	1024
Maximum output power	750 microwatts
File formats	TIFF
Scan Patterns	Line, Circle, 3D Volume
Animal models	Mouse, rat, Zebrafish
Objective Lenses	Separate Phoenix OCT objective lenses for mice and rats
Analysis tools	Reveal software: control real time placement of OCT scan, create 3D visualizations of data
	InSight software: automatically or interactively display retinal layers

Phoenix OCT2 is integrated with a Phoenix Micron IV Retinal Imaging Microscope and associated hardware