



# Small Animal Ocular Imaging

On the web: <https://phoenixmicron.com> Email us at: [sales@phoenixmicron.com](mailto:sales@phoenixmicron.com)



## Exceptional retinal microscopy

The all-new Phoenix MICRON 5 delivers a performance breakthrough for small animal ocular imaging.

Designed to enhance efficiency and repeatability, this new generation of MICRON technology boasts a range of core features, including interchangeable imaging sensors and software-controlled camera operation, expanded filter capabilities, and new depth of field adjustments. Endless opportunities at your fingertips.

## New LT2 Lens Technology

Objective lenses slide on to the camera and magnetically snap into place, making it even faster and easier to switch from one imaging modality to another with precision alignment. This is ideal for workflows such as verifying a laser burn with OCT.

## Designed for *in vivo* small animal ophthalmic research

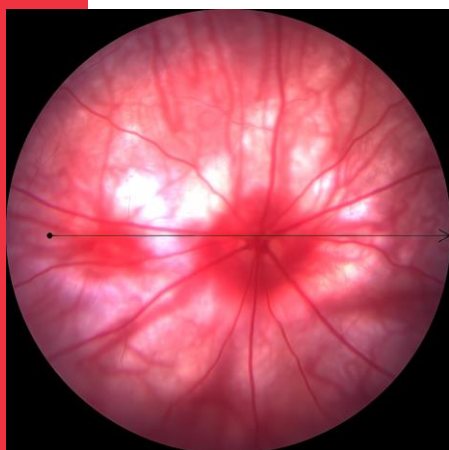
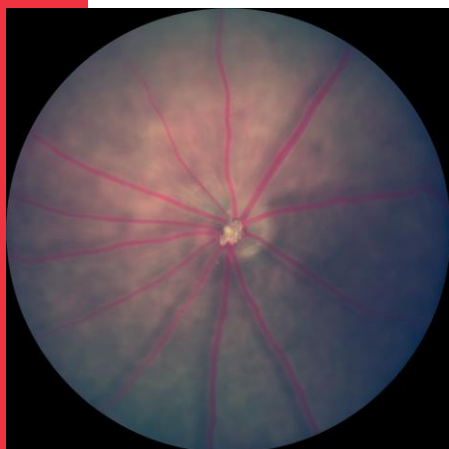
Designed specifically for the challenges of rodent eye and eye-brain research, MICRON cameras have been used to image subjects from zebrafish to small rabbits.



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## Features:

- Mouse retina resolution below 3  $\mu\text{m}$
- Live, real-time fundus view
- Captures still images and videos
- Adjust aperture to tune depth of field
- Control exposure for dark and light retinas with light intensity, aperture, digital gain, and frame rate
- Software-controlled focus, illumination, aperture and filter selection
- Record and manage animal subject details
- Add user-defined tags to subject animals, imaging sessions, and images for enhanced search and analysis
- Extract still images from videos
- Review, zoom, compare, and export images
- Wide range of excitation and emission filters for fluorescent imaging
- Easily switch between modalities and objectives lenses with new LT2 slide-on / slide-off lenses



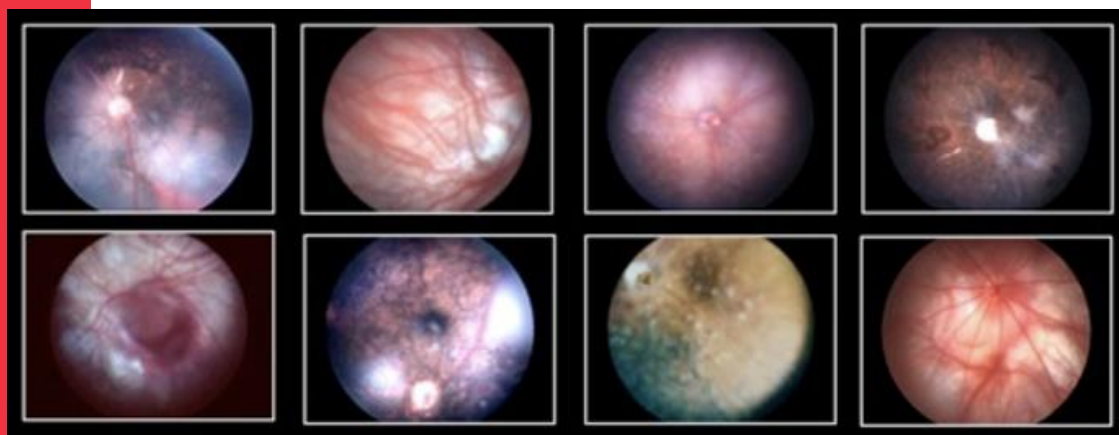


MICRON<sup>®</sup> 5

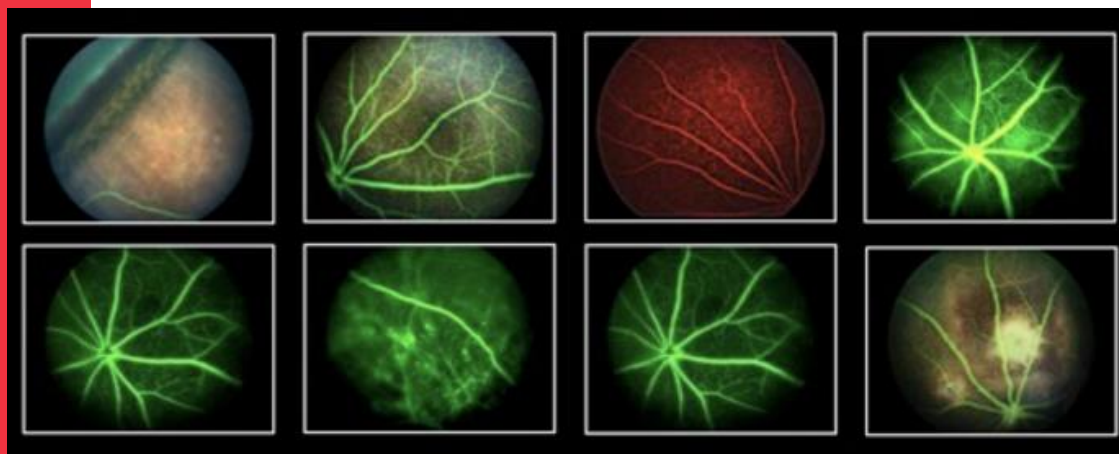
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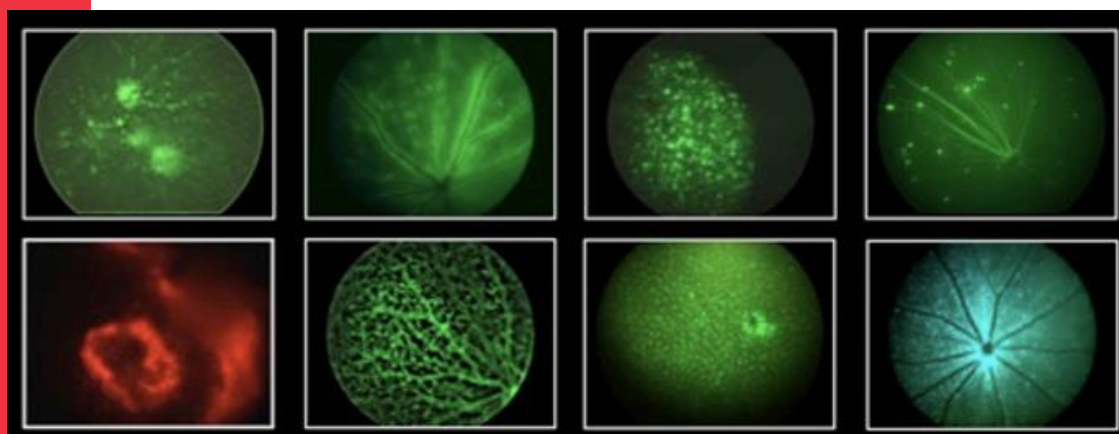
## High-resolution, High-contrast Images



Color Fundus



Angiography



Fluorescence





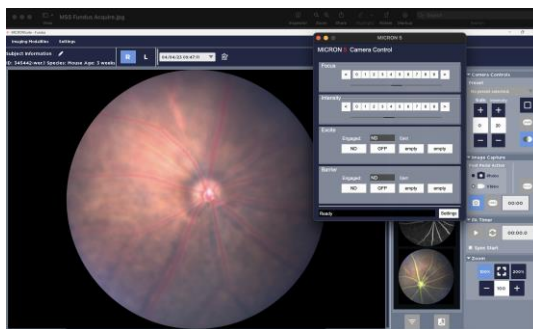
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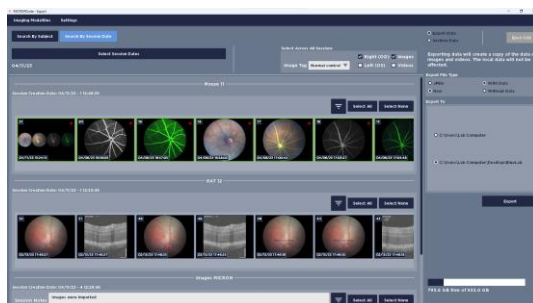
## Share the MICRON 5 Across Labs or Teams

Share a single MICRON imaging system with multiple labs while controlling which users can access data from each lab



## Live Fundus View; Capture Still Images and Video

Real-time fundus view with ability to capture videos, extract frames from videos, and capture still images



## Tag, Search, Review, and Export

Rich data and image management tools improve data and image analytic value

Powered by MICRON Software Suite



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## Supports a Wide Range of MICRON Imaging Modality Add-ons



**Image-Guided OCT2**



**Image-Guided Laser**



**Image-Guided Focal ERG**



**Slit Lamp**

**450**

Published papers that incorporate MICRON data

**14+**

Years of experience innovating patented small animal imaging technology

**1**

Integrated multi-modality **system**

**7**

Imaging modalities, designed for exacting small animal ophthalmic research





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Specification	Details
Retinal imaging resolution	3 $\mu$ m or better (mouse) 6 $\mu$ m (rat)
Depth of focus	Controlled by variable aperture settings
Range of focus	Retinal surface to crystalline lens
Field of view	50 degrees; 1.8mm (mouse) 3.6mm (rat)
Dynamic imaging rate	30 fps to 2 fps
Imaging dynamic range	60 dB
Image formats	JPEG, TIFF, AVI
Light source	Xenon, 400 nm to 850 nm
Filters	4 filter positions in excitation and emission filter wheels. Includes GFP filter set. Wide range of available filters sets.
Animal stage	2 degrees of rotation; 3 degrees of translation
Camera head stand	X-foot platform with vertical and tilt camera adjustment
Operating system	Windows 11
Monitor	Wide screen 22" LCD
Power	Auto-switching 120 VAC / 230 VAC, 50 Hz or 60 Hz
Accessories	Keyboard, mouse, foot switch, dust cover, mouse pad, lens cleaning tissue, water bottle, coupling gel starter pack,

