MICRON® 5

Small Animal Ocular Imaging

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







Image-guided retinal microscopy for mice and rats

The patented MICRON 5 is the fifth-generation MICRON retinal imaging microscope for in vivo small animal ocular imaging.

The MICRON 5 adds interchangeable imaging sensors, software-controlled camera operation, expanded filter capacity and variable-aperture depth of field adjustment.

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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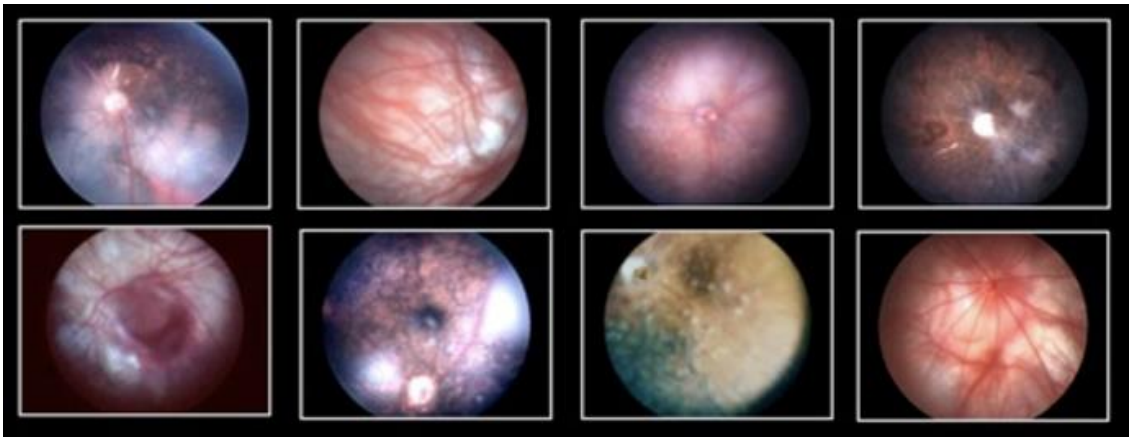
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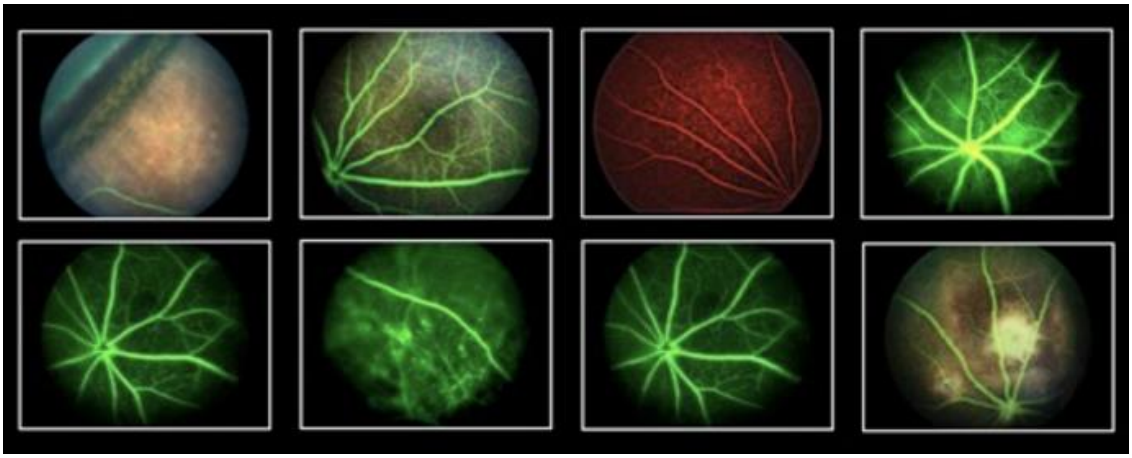
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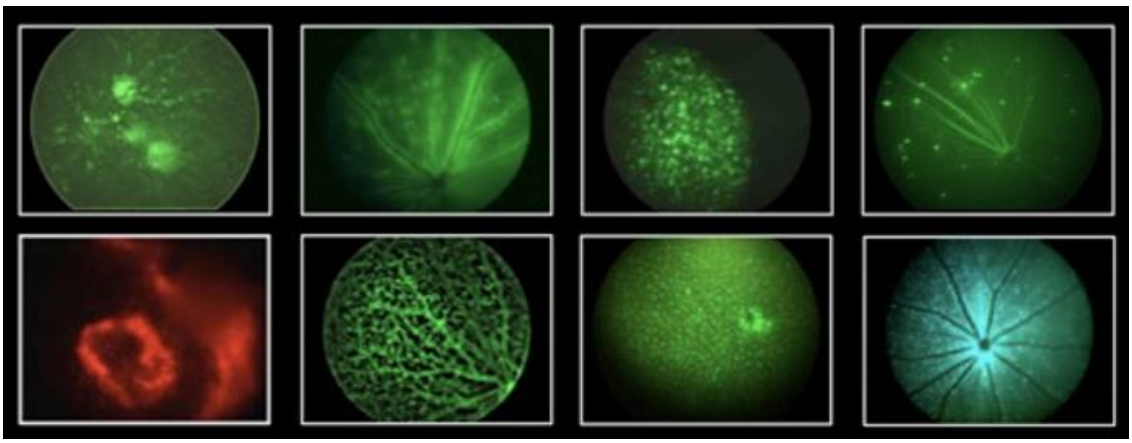
High-resolution, High-contrast Images



Color Fundus



Angiography



Fluorescence

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Powered by MICRON Software Suite



Share the MICRON 5 System 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

Tag, search, review and export images; tags export as CSV columns for analysis

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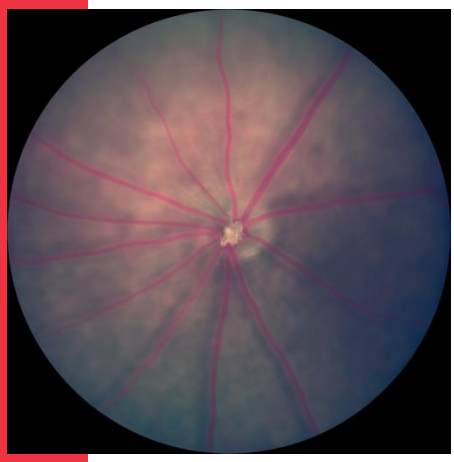
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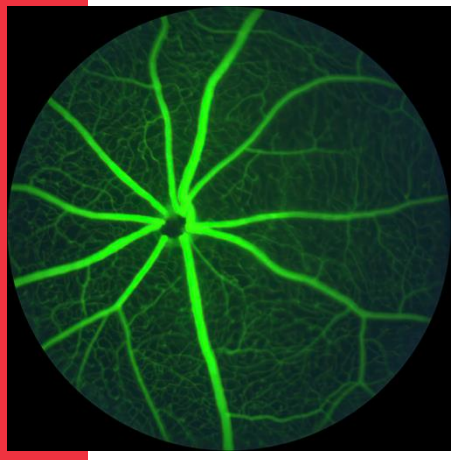
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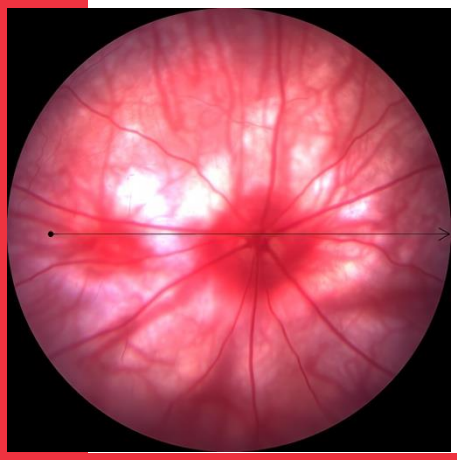
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Features:

- Mouse retina resolution below 3 µm
- 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 auto intensity, aperture, digital gain, and frame rate
- Software-controlled auto-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
- Select from a wide range of excitation and emission filters for fluorescent imaging
- Create unlimited presets for imaging settings and Auto White Balance (AWB) to support imaging protocols
- Easily switch between modalities and objective lenses with LT2 slide-on / slide-off lenses

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Specification	Details
Retinal imaging resolution	3 µm or better (mouse) 6 µm (rat)
Depth of focus	Controlled by variable aperture settings
Range of focus	Retinal surface to crystalline lens
Field of view	50 degrees; 1.8 mm (mouse) 3.6 mm (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 optional filters sets available.
Camera head stand	X-foot platform with vertical and tilt camera adjustment
Operating system	Windows 11 Pro
Monitor	Wide screen 22” LCD
Power	Auto-switching 120 VAC / 230 VAC, 50 Hz or 60 Hz
M5 Accessory Kit	Cables, foot switch, dust cover, mouse pad, lens cleaning tissue, water bottle, yellow hi-lighter coupling gel starter pack
Peripherals	Keyboard, computer mouse

CE The MICRON system is CE-marked and conforms to the essential health, safety, and environmental protection requirements of the European Union as outlined in the following directives:

- **Machinery Directive (2006/42/EC):** Safety requirements for machinery.
- **EN 61326-1:2013:** Electrical equipment for measurement, control, and laboratory use – EMC requirements – Part 1: General requirements.
- **RoHS Directive (2011/65/EU):** Restriction of the use of certain hazardous substances in electrical and electronic equipment.

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Five Add-on Modalities for the MICRON 5



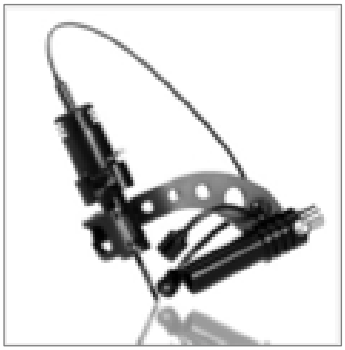
Image-Guided OCT2



2 Image-Guided Lasers: 532 nm and 810 nm



Image-Guided Focal ERG2



Slit Lamp

1200+ Peer-reviewed papers citing MICRON data	**Since 2012** Innovating patented small animal imaging technology	**7** Modalities on the MICRON 5	**5** The latest generation MICRON Camera	**2** Camera platforms

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