



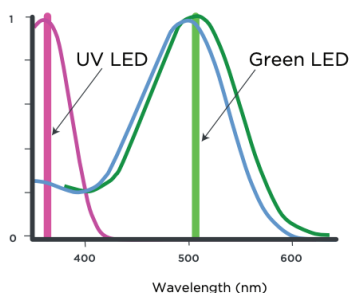
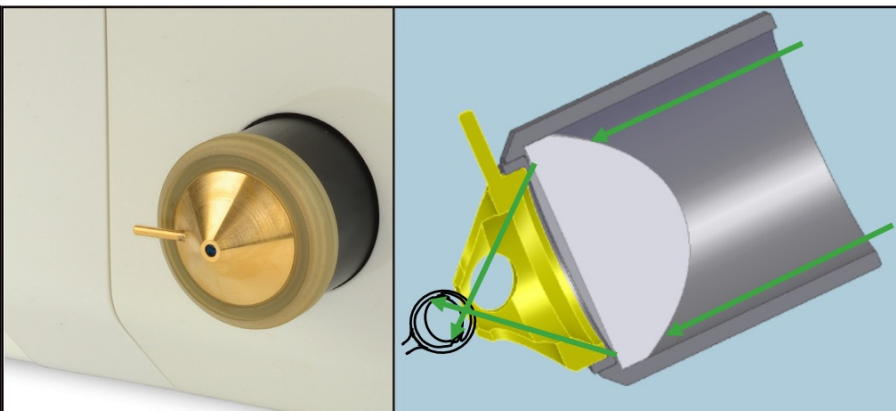
MICRON[®]

Ganzfeld ERG2 System

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

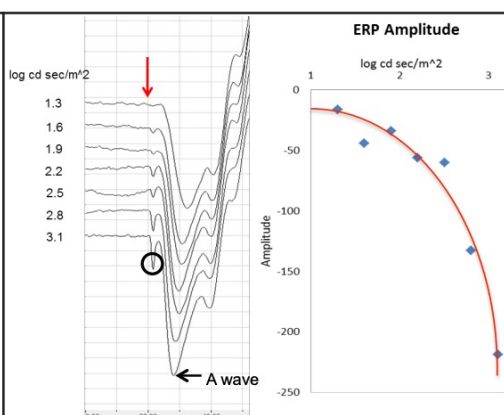
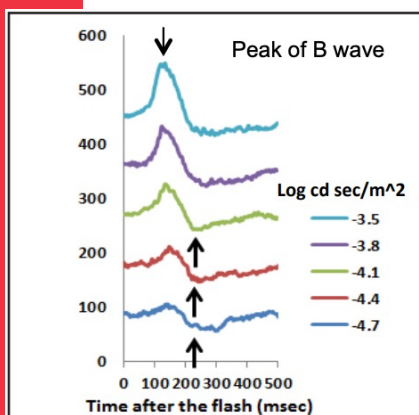
The unique Maxwellian view design enables placing the corneal electrode on the front lens.

With an infrared camera for guidance, the electrode can be gently contacted to the cornea even in the dark, keeping absolute dark adaptation and stable contact with the eye.



Measure responses:

The Phoenix MICRON Ganzfeld ERG2 System delivers both 505 nm and 365 nm stimulus to enable studies of both cone and rod photoreceptors. A near infrared (NIR) LED at 850 nm is used to visualize pupil alignment. This is a wavelength where there is no response from the rodent retina, thereby maintaining scotopic adaptation.



Scotopic Threshold Response (left) to Early Receptor Potential (right)



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Maxwellian View Illumination

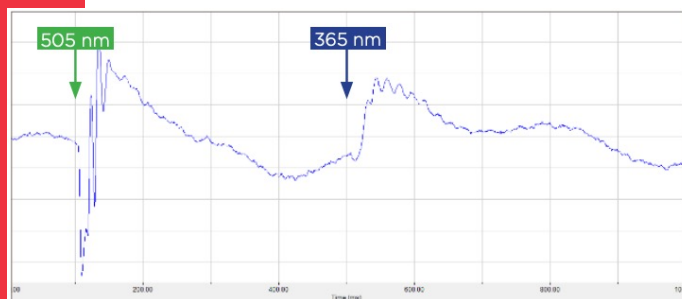
The Maxwellian view illumination technique focuses the light from a single LED onto the nodal point of the eye using a small F# lens diverging the light to illuminate the entire retina.

ERG signals are pre-conditioned by the Head Stage, which is placed close the subject animal. This approach minimizes the length of the electrode leads and improves signal to noise performance.

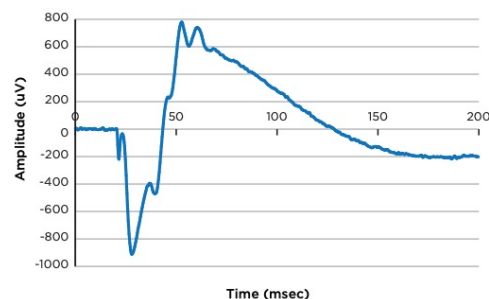
MICRON Ganzfeld ERG2 System with optional Animal Stand - Pro



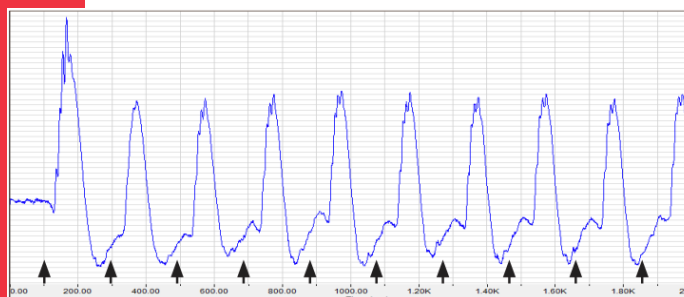
Supports preset and custom signal protocols



Double pulse, arbitrary wavelength selection



Sample ERG Waveform



Flicker, arbitrary selection of frequency and background



Head Stage with electrodes

- | | | | | |
|---|---|--|---|------------------------------|
| 1000+
Published papers that incorporate MICRON data | 15+
Years of experience innovating patented small animal imaging technology | 8
Imaging modalities, in a compact footprint | 5
The latest generation MICRON Camera | 2
Camera platforms |
|---|---|--|---|------------------------------|





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Specification	Details
Stimuli	365 nm and 505 nm
Illumination spot size	Full field
Range of stimulation in log cd sec/m ²	-4.7 to 3.1 (1 ms flash duration) Set levels over a range of 10 ⁸
Modes	Single flash Double/Flicker flash Alternate two-color flash Continuous background with flash Light adaption Chart mode
Pulse length	0.05 milliseconds to minutes
Objective lenses	Single objective lens for mice and rats -3 neutral density lens for lower light delivery
Pupil alignment	Illuminate at 850 nm for alignment
Electrodes	Corneal contact (gold-plated objective lens) Platinum needles for tail (ground) and head (reference)
Acquisition features	CLEAN mode to remove 60/50 Hz pickup noise; controllable bandwidth; controllable digitization sampling rate; control delay and pulse length for LED illumination
Analysis features	Automatic measurement of A, B and C-wave peaks; automatic display of waterfalls; automatic measurement of OP peaks and implicit time; averaging with user selection
Data export formats	.txt, .csv, .jpg, .png
Camera	NIR to align pupil
Redesigned low-noise electronics	New magnetically mounted Head Stage with signal pre-conditioning and short electrode leads for reduced electrical noise
Integrated heater	Heater power connection for optional MICRON Animal Stand - Pro with software temperature control

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