



AGILE FOCUS

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Features:

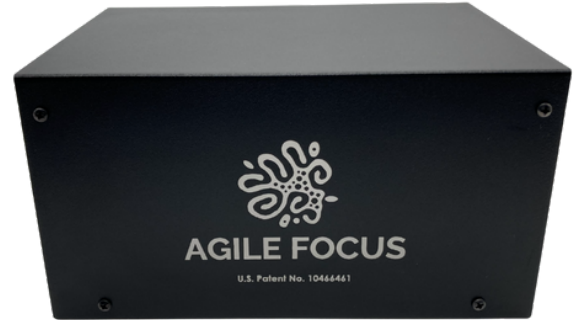
- PoweRave™ Focus and Zoom
 - RP offers rapid focusing
 - RPZ offers rapid, independent control of optical power and zoom
- Inserts into open microscopes at infinite conjugate image planes
- Controlled via USB to a computer with included control software
- Achromatic
- No agitation or damage of the sample, since neither the stage or objective lens moves
- Maintains the resolution of the optical system throughout the focal range

Custom Options:

- Total magnification
- Total focusing range
- Physical size can be altered
- Wavelength range specification
- Two layouts for objective lens with respect to camera/eyepiece
 - In-line
 - Perpendicular
- Two options for placement of objective
 - Attached with screw threading (as shown)
 - 20 mm separation
- Aperture size dependent on a particular objective lens

POWEHAVE™ FOCUS & ZOOM BENCHTOP VERSION

The PoweRave™ Focus and Zoom takes advantage of deformable membrane mirror technology to allow for fast focus and zoom control without translating or rotating lenses, vastly outperforming traditional microscopy. The Rapid Power (RP) version provides rapid focusing only. The Rapid Power and Zoom (RPZ) version offers independent control of rapid focusing and 2x zoom.



PoweRave™ Benchtop

US Patent No. 10466461

PoweRave™ benchtop version is designed specifically for electrophysiology, inspection during manufacturing, and cryogenic applications with wide-field, confocal, and multiphoton microscopes.

PoweRave™ Benchtop Specifications

Nominal dimensions:	5" x 7" W x 9.5" L
Optical zoom:	1x-2x continuous variable**
3dB bandwidth:	450 Hz
Aperture stop dia.:	5 mm
Wavelength:	400-700 nm

**Example: 10-20x when used with 10x objective

Objective NA	Focus Change
0.025	0~110,000 μm
0.06	0~19,000 μm
0.1	0~6,900 μm
0.25	0~1,100 μm
0.4	0~430 μm
0.75	0~120 μm

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*design subject to change and additional optical components (including objective lens) not included.



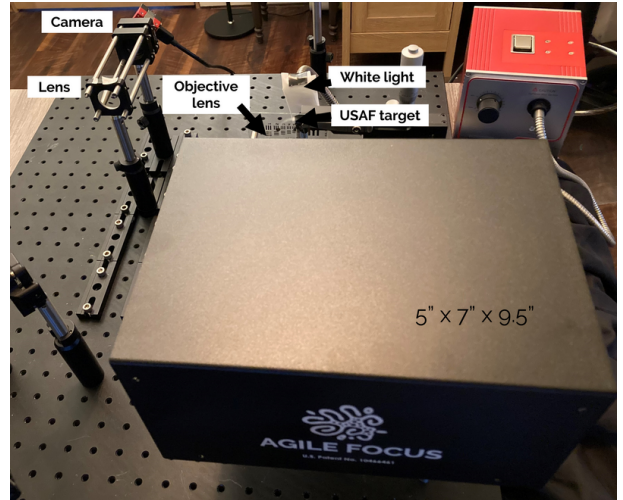
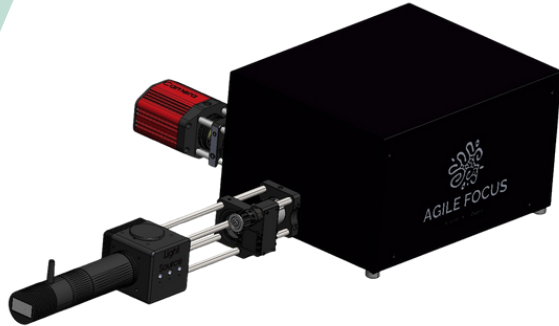
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PowerRave™ FOCUS & ZOOM

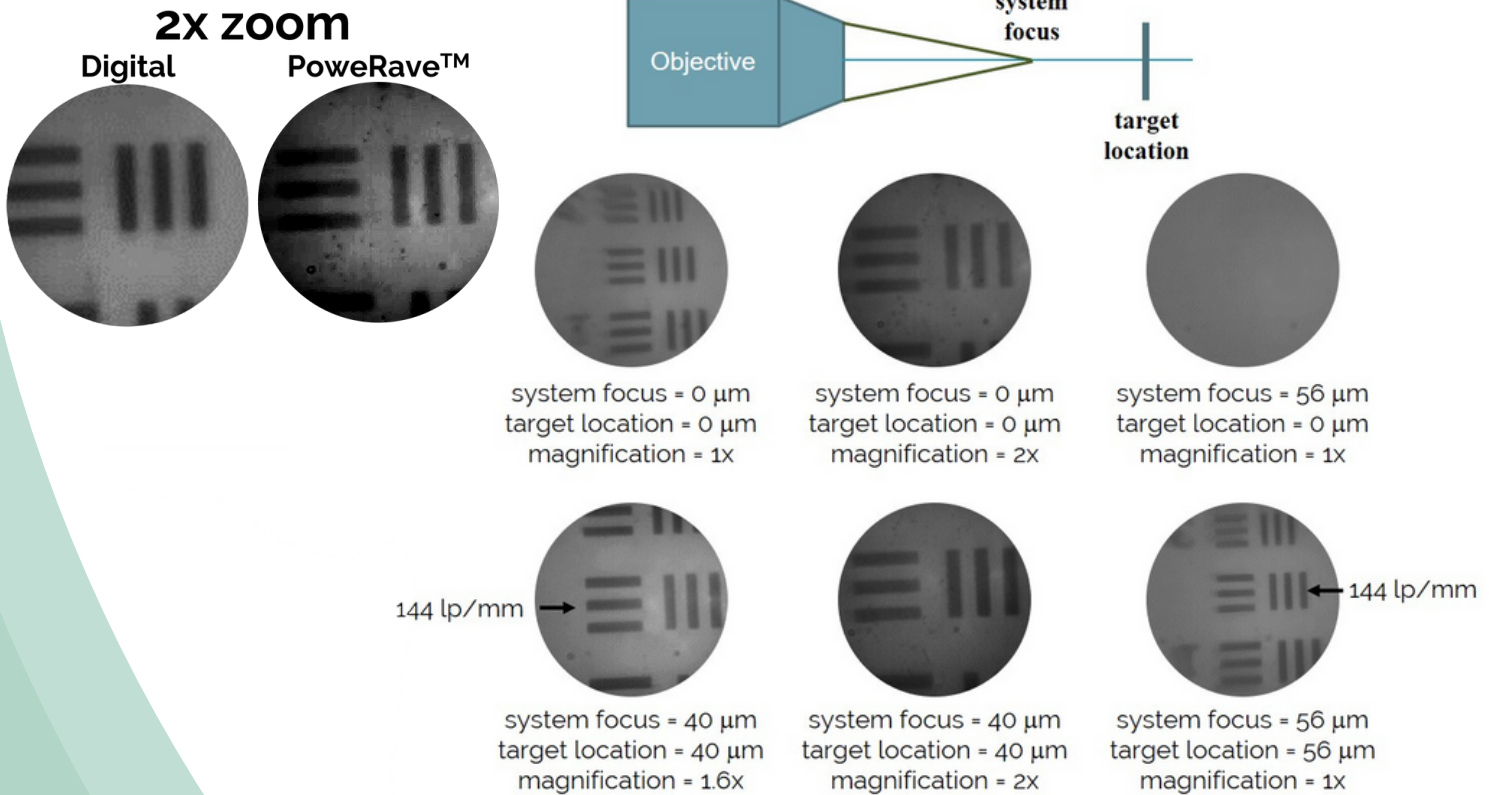
BENCHTOP VERSION

PRODUCT DEMONSTRATION



PowerRave™ Benchtop use case where a simple microscope (light source and sample shown to left and imaging lens and camera shown behind) is directly attached to the PowerRave™ Benchtop with a cage system.

PowerRave™ Benchtop shown in a benchtop 40x microscope. This was the testing setup for results shown below.



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