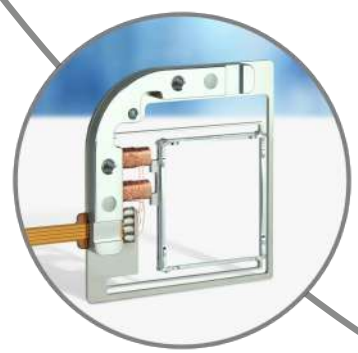
Microscopy

3D imaging, Speed, flexiblility

Focus tunable lenses, fast-steering mirrors, and laser speckle reducers are the ideal choice if you need to enable in-vivo 3D imaging of cells, change the light plane and AOI selection combined with laser scanning, or more even and contrastful laser illumination. Small size, robust, and reliable tuning solutions for over a billion cycles. Highly accurate and repeatable.



optotune

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Liquid lenses

Compared to motorized lenses or piezos for Z-axis control, liquid lenses offer:

- 100x faster focus
- Compact size
- No mechanical vibrations
- 3x more affordable
- No table top controller
- One-time calibration

Microscopy applications

- Wide-field
- Two-photon
- Confocal
- Digital microscopy
- Light sheet
- Raman

Product range

EL-3-10-TC

EL-12-30-TC

EL-16-40-TC

	EL-3-10-TC	EL-12-30-TC	EL-16-40-TC
Focal power range (dpt)	-13 to +13	-6 to +10	-10 to +10
Clear aperture (mm)	3	12	16
Settling time (ms)	4	25	25

Fast-steering mirrors

Improving scanning system of a microscope does not have to come at a large effort and expense. Integrating our mirror enables easy:

- Change of light plane
- AOI selection
- Laser scanning

MR-15-30

- Mirror diameter 15 mm
- Mechanical tilt (both axes) 25°
- Full scale bandwidth 20 Hz

Laser speckle reducers

Integration of compact moving diffuser windows helps overcoming the natural noise conditions in a cost efficient way and improves:

- Illumination field uniformity
- Illumination brightness
- Image quality

LSR-4C

- Clear aperture 18.5 mm
- Max laser power 600 W
- Oscillation frequency 120 Hz

Let's talk about your application