

Fast electrically tunable lens EL-10-30-TC



Design faster and more compact optical systems without complex mechanics using the electrically focus tunable lens EL-10-30-TC. By applying a current, the focal length of the 10 mm aperture lens can be tuned to a specific value in milliseconds. Thanks to an integrated temperature sensor and characterization data, the lens can be driven to precise focal powers using Optotune's lens driver 4. The EL-10-30-TC is available with two broadband coating options, VIS for 400-700nm and NIR for 700-1100nm.



The following table summarizes the main specifications of the compact EL-10-30-TC:

Standard products	Tuning range	Refractive index	Cover glass coating	Wavefront error*
EL-10-30-TC-VIS-12D	+120 to +50 mm +8.3 to +20 dpt	1.30	400 - 700nm	<0.25 / <0.60 λ
EL-10-30-TC-NIR-12D	+120 to +50 mm +8.3 to +20 dpt	1.30	700 - 1100nm	<0.25 / <0.60 λ

* Wavefront error provided in λ RMS @525nm with optical axis vertical / horizontal

Applications

Applications for Optotune's EL-10-30-TC are among others:

- Microscopy
- Atom trapping
- Optical coherence tomography (OCT)
- Laser shows