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Optotune Electrically Focus Tunable lens 12mm CA, VIS coated, C mount | EL-12-30-TC-VIS-16D-C



Stock #78-515 [CONTACT US](#)

- 1 + \$S\$1,351⁰⁰

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General

Specialty Lens **Type:**

>1,000,000,000 **Lifecycles:**

EL-12-30-TC-VIS-16D-C **Model Number:**

Response Time (ms):

Physical & Mechanical Properties

11.6 **Clear Aperture CA (mm):**

47.0 **Outer Diameter (mm):**

5.80 **Thickness (mm):**

Optical Properties

Low Dispersion Polymer **Substrate:**

BBAR (420-950nm) **Coating:**

420 - 950 **Wavelength Range (nm):**

100.00 **Abbe Number (v_d):**

-6 to +10 diopter **Focus Range (mm):**

1.450 **Index of Refraction (n_d):**

Transmitted Wavefront Error, RMS:
Vertical: $0.15\lambda@525\text{nm}$ Horizontal: $0.25\lambda@525\text{nm}$

Electrical

-250 to 250, -300 to 300 abs. max **Current (mA):**

0.94 **Power Consumption (W):**

Regulatory Compliance

[View](#) **Certificate of Conformance:**

Product Details

- Fast Rise and Settling Times of 3ms & 10ms
- Low Temperature Sensitivity $<0.01\text{dpt}/^\circ\text{C}$
- Low Power Consumption of 55mW for a 5 Diopter Range

Optotune Focus Tunable Lenses 12mm Clear Aperture Hirose Connector combine our Optotune Electrically Focus Tunable Lenses with C-Mount compatible housings to ease mechanical integration into imaging systems. This lens features a versatile focal power range of -6 to +10 diopters with exceptional precision in a slim housing that adds only 5.8mm to the optical axis. Optimized for fast response times and low thermal sensitivity, the liquid lens can switch from a flat zero-state into a plano-concave or plano-convex lens in 3ms and remain stable with a $<0.01\text{dpt}/^\circ\text{C}$ sensitivity. Optotune Focus Tunable Lenses 12mm Clear Aperture Hirose Connector are ideal for replacing multi-lens or zoom systems in machine vision, microscopy, and optical coherent tomography (OCT) applications. The protective cover glass is AR coated to maximize transmission from 420 – 950nm.