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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 ⊕ £772.⁰⁰

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Note: This item requires accessories for use | [Learn More](#)

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General

Specialty Lens **Type:**

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

EL-12-30-TC-MS-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.