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Optotune -2 to +3 Diopter, C-Mount to C-Mount Focus Tunable Lens | EL-16-40-TC-VIS-5D-C

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 Stock #33-494 **12 In Stock**

 - 1 + £987.⁰⁰

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Volume Pricing	
Qty	£987.00
1+	each
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Product Downloads	
STEP:step	PDF Drawing:pdf
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Prices shown are exclusive of VAT/local taxes

General

Type: Specialty Lens	Driver: #88-940
Lifecycles: 1,000,000,000	Model Number: EL-16-40-TC-VIS-5D-C
Response Time (ms): 5 (typical @ 30°C)	Settling Time (ms): 25 (typical @ 30°C)

Physical & Mechanical Properties

Clear Aperture CA (mm): 16.00	Dimensions (mm): 47.0 x 70.0
Thickness (mm): 17.60	

Optical Properties

Substrate: Low Dispersion Polymer	Coating: BBAR (420-950nm)
Wavelength Range (nm): 420 - 950	Abbe Number (v_d): 100.00
Focus Range (mm): -2 to +3 diopter -500 to +333mm	Index of Refraction (n_d): 1.3
Transmitted Wavefront Error, RMS: Vertical: 0.25λ @ 525nm Horizontal: 0.50λ @ 525nm	

Electrical

Current (mA): -250 to 250	Power Consumption (W): 0 - 0.7
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Threading & Mounting

Mounting Threads: C-Mount (Male)
C-Mount (Female)

Environmental & Durability Factors

Operating Temperature (°C): -20 to +65

Regulatory Compliance

RoHS 2015: **Compliant**

Certificate of Conformance: [View](#)

Reach 251: **Compliant**

Product Details

- Multiple Imaging Lens Mounting Options
- Large Clear Aperture Ideal for Machine Vision Applications
- Industrial Hirose Connection with Temperature Sensing
- Integrated Temperature Control for Improved Thermal Effects
- [Optotune Focus Tunable Lenses 10mm Clear Aperture Hirose Connector](#) and [Lens Drivers](#) Also Available

Optotune Focus Tunable Lenses 16mm Clear Aperture Hirose Connector eliminate the need for optomechanical subsystems otherwise required to alter the focal length of your imaging application. They feature large clear apertures and are offered in many popular machine vision mounting options, making them ideal for inspection and detection systems. These lenses offer continuous focusability from -2 to +3 diopters controlled by an industrial Hirose connection. Optotune Focus Tunable Lenses 16mm Clear Aperture Hirose Connector exhibit no autofluorescence, reducing unwanted light on the detector and feature integrated temperature sensing to provide open loop reproducibility typically within 0.1 diopters. The lenses are made of low dispersion polymer and feature a broadband anti-reflection coating.

Note: Hirose cables, available in 1m length ([#88-941](#)), 3m length ([#33-468](#)) or 5m length ([#23-852](#)), and Lens Driver ([#88-940](#)) are required and sold separately. The Gardasoft TR-CL180 Industrial Lens Controller ([#13-803](#)) is an optional accessory that provides repeatable, precision control of Optotune Industrial Focus-Tunable Lenses. Prescription data is available to model the effect an offset lens has on overall focal range.

Technical Information

Accessories

Note: Compatible accessories for individual stock numbers may vary. If unsure about which accessories work with your products, please contact us [here](#).

	Title	Compare	Stock Number	Price	Buy
MORE+	Gardasoft TR-CL180 Industrial Lens Controller		#13-803	£1,268.00 Request Quote	2 In Stock <input type="text" value="1"/>
MORE+	6-way Male/Female Hirose Cable, 5m Length		#23-852	£144.80 Request Quote	11 In Stock <input type="text" value="1"/>
MORE+	6-way Male/Female Hirose Cable, 3m Length		#33-468	£132.00 Request Quote	5 In Stock <input type="text" value="1"/>
MORE+	6-way Hirose Male/Female Cable, 1m Length		#88-941	£103.20 Request Quote	20+ In Stock <input type="text" value="1"/>
MORE+	Optotune Industrial Electrical Lens Driver 4i EL-E-4I		#88-940	£444.00 Request Quote	20+ In Stock <input type="text" value="1"/>

Frequently Purchased Together



#33-468 - 6-way Male/Female Hirose Cable, 3m Length
£132.00

Qty



#33-428 - Male M25.5 to Female C-Mount
£34.60

Qty



#03-627 - C-Mount Male to Olympus (RMS/DIN) Female Step-Down Adapter
£41.60

Qty



#33-305 - 25mm UC Series Fixed Focal Length Lens
£208.00

Qty



Resources

Media Type

- Trending in Optics
- Application Note
- Video
- Published Article
- FAQ

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Trending Liquid Lenses in Imagination

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Liquid Lens Features, Applications, and...

📄 APPLICATION NOTE

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Assembling a Liquid Lens Cx Series Lens

▶ VIDEO

Liquid Lenses in Machine Vision - TRENDING IN...

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