TECHSPEC® 0.50X SilverTL™ SWIR Telecentric Lens

#26-629



TECHSPEC® SilverTL™ SWIR Telecentric Lenses

Phone: 1-800-363-1992 or 1-856-573-6250, Fax: 1-856-573-6295
101 EAST GLOUCESTER PIKE | P.O BOX 9000
BARRINGTON, NJ 08007-1380 USA
www.edmundoptics.com

TECHSPEC® SilverTL™ SWIR Telecentric Lenses are designed with broadband AR coatings optimized for a 900 – 1700nm wavelength range. These lenses combine high quality optics with a simplified non-focusing mechanical design and adjustable iris with a locking set screw. For optimum resolution and performance at the application's target spectral range, SWIR Machine Vision filters and SWIR LED illumination are recommended. TECHSPEC® SilverTL™ SWIR Telecentric Lenses feature a standard front filter thread for use with color filters, polarizers, protective windows, and illumination adapters for LED or fiber-optic ring lights. These lenses are ideal for semi-conductor measuring and both on-line and off-line machine vision production applications that require precise measurements.

Note: Mounting brackets are available that fit the 30mm diameter mounting surface.

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General

Product Family:	Silver SWIR Series
Stock No. of Mounting Clamp:	#56-871 Sold Separately
Type:	Telecentric Lens

Physical & Mechanical Properties

Iris Option:	Variable
Length (mm):	153.00
Length excluding Threads (mm):	153.00
Maximum Diameter (mm):	40.00
Weight (g):	226
Construction:	Anodized Aluminum

Optical Properties

Horizontal Field of View, 1/1.8" Sensor:	14.4mm
Horizontal Field of View, 1/2" Sensor:	12.8mm
Horizontal Field of View, 1/3" Sensor:	9.6mm
Maximum Image Circle (mm):	9.00
Numerical Aperture NA, Object Side:	0.041
Working Distance Tolerance (mm):	±3
Resolution, Image Space MTF @ f/10:	>40% @ 40 lp/mm
Number of Elements (Groups):	6 (5)
Wavelength Range (nm):	900 - 1700
Typical Telecentricity @ 588nm (°):	<0.012
Typical Distortion @ 588nm (%):	<0.200
Primary Magnification PMAG:	0.5X
Telecentric Lens Magnification:	0.50
Working Distance (mm):	120.00
FOV @ Max Sensor Format, H x V (mm):	14.4 x 10.8
Aperture (f/#):	f/6 - f/22
Coating:	900 - 1700nm BBAR
Depth of Field (mm):	±2.1 at f/10 (20% @ 20 lp/mm)
Magnification:	0.5X
Lens Wavelength Range:	SWIR

Sensor

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Maximum Sensor Format:	1/1.8"
Pixel Size (µm):	2.74

Threading & Mounting

Filter Thread:	M37 x 0.75 (Female)
Mount:	C-Mount

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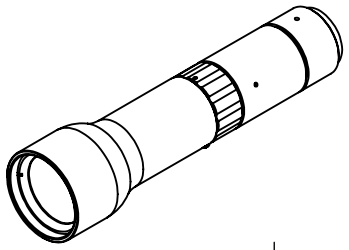
Stock No.	Description
26-629	0.50X SilverTL™ SWIR Telecentric Lens

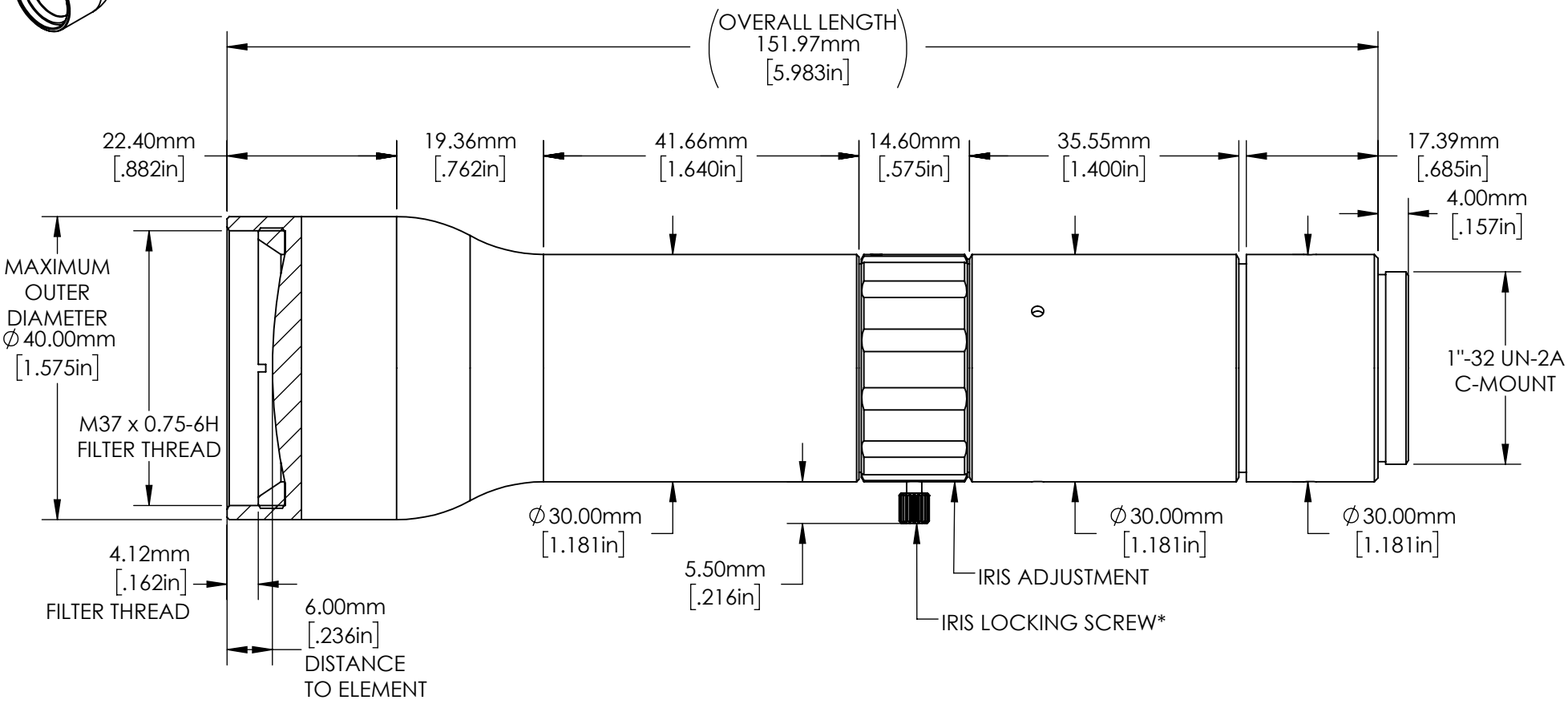
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Jeff Harvey- EVP of Operations

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*ALSO INCLUDES RECESSED SET SCREW OPTION

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DIMENSIONS ARE FOR REFERENCE ONLY. FOR DETAILED SPECIFICATIONS, PLEASE REFER TO THE SPEC SHEET.

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