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TECHSPEC® 0.50X In-Line Illumination SilverTL™ SWIR Telecentric Lens



TECHSPEC® SilverTL™ SWIR Telecentric Lenses



Stock **#26-630** **13 In Stock**

⊖ 1 ⊕ **S\$1,411⁰⁰**

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General

Silver SWIR Series **Product Family:**

Stock No. of Mounting Clamp:
#56-871 Sold Separately

Telecentric Lens **Type:**

In-Line Illumination **Type of Illumination:**

Physical & Mechanical Properties

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

Optical Properties

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

Sensor

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

Threading & Mounting

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

Regulatory Compliance

View	Certificate of Conformance:
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Product Details

- High Resolution f/6 Bi-Telecentric Lenses with Inline Illumination Options
- Up to 7.5 MegaPixels, 2.8µm Pixel Size Sensors
- Eliminate Parallax Error in Measurement Applications
- SWIR Coated Lenses for 900-1700nm Wavelength Range

TECHSPEC® SilverTL™ 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™ 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.
