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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 ⊕ €2.015⁰⁰

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General

Silver SWIR Series **Product Family:**

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

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:**

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.
