

TECHSPEC® 0.50X SilverTL™ SWIR Telecentric Lens



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SPECIFICATIONS

General

Series:

Silver SWIR Series

Stock No. of Mounting Clamp:

Telecentric Lens **Type:**

Physical & Mechanical Properties

Variable **Iris Option:**

153.00 **Length (mm):**

153.00 **Length excluding Threads (mm):**

40.00 **Maximum Diameter (mm):**

226 **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:**

6 (5) **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:**

SWR **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-Mbunt **Mount:**

Regulatory Compliance

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.
