

**TECHSPEC® 2.5X LS Series Line Scan Lens**



2.5XLS Series Line Scan Lens

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**General**

LS Series **Product Family:**

**Note:**  
Beamsplitter is included. Length includes beamsplitter. Specifications are at primary magnification.

Line Scan **Type:**

Yes **Beamsplitter / Line Scan:**

Line Scan **Special Type of Lens:**

## Physical & Mechanical Properties

Variable **Iris Option:**

157.50 **Length (mm):**

95 **Maximum Diameter (mm):**

95 **Outer Diameter (mm):**

1287 **Weight (g):**

0 **Maximum Rear Protrusion (mm):**

529 **Lens Total Track Length (mm):**

529.00 **Total Track (mm):**

## Optical Properties

**Horizontal Field of View @ Max Sensor Format:**  
32.8mm

**Field of View at Max Sensor Format:**  
Diagonal: 32.9mm - 10°

32.8mm **Field of View, 82mm Sensor:**

25mm **Field of View, 62.5mm Sensor:**

23.1mm **Field of View, 57.7mm Sensor:**

11.5 **Field of View, 28.7mm Sensor:**

0.11 **Numerical Aperture NA:**

82.00 **Maximum Image Circle (mm):**

0.1099 **Numerical Aperture NA, Object Side:**

12 (7) **Number of Elements (Groups):**

117.00 **Focal Length FL (mm):**

2.35X-2.65X **Primary Magnification PMAG:**

62.7 **Working Distance (mm):**

f/2.9 - f/22 **Aperture (f/#):**

425 - 675 BBAR VIS **Coating:**

425 - 675nm BBAR **Coating Specification:**

114.19 **Entrance Pupil Position (mm):**

95.83 **Object Space Principal Plane (mm):**

-77.27 **Image Space Principal Plane (mm):**

0.01 **Maximum Distortion (%):**

>98% **Relative Illumination:**

-61.01 **Exit Pupil Position (mm):**

VIS **Lens Wavelength Range:**

## Sensor

82mm **Optimized Sensor Format:**

82mm (Image Circle) **Maximum Sensor Format:**

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5.00 **Pixel Size (µm):**

## Threading & Mounting

M52 x 0.75 **Filter Thread:**

75 **Mounting Diameter (mm):**

V-70 Mount **Mount:**

## Regulatory Compliance

[View](#) **Certificate of Conformance:**

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## Product Details

- 82mm Line Scan (LS), V-70 Mount
- Up to 16k, 5µm Pixel Size Line Scan Sensors
- High Resolution, Low Distortion, Uniform Field Performance
- 1.65X to 2.65X Primary Magnification

TECHSPEC® LS Series Line Scan Fixed Focal Length Lenses are low distortion lenses designed for 82mm 16k line scan cameras with 5µm pixels and 62.5mm 12k line scan cameras with 5µm pixels. For coaxial inline illumination, these lenses are available with a beamsplitter for line scan sensors or with a window for area scan sensors. The locking iris is adjustable from *f*/2.9 to *f*/22, while the V-Mount provides ease of adjustment and alignment. The uniform and high resolution performance across the entire image makes the TECHSPEC® LS Series Line Scan Fixed Focal Length Lenses ideal for applications such as electronics, flat panel display and semiconductor wafer inspections.

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