

TECHSPEC® 2.5X LS Series Line Scan Lens



2.5XLS Series Line Scan Lens

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General

LS Series **Product Family:**

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

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:**

5.00 Pixel Size (μm):

Threading & Mounting

M52 x0.75 Filter Thread:

75 Mounting Diameter (mm):

V-70 MOUNT Mount:

Regulatory Compliance

[View](#) Certificate of Conformance:

Product Details

- 82mm Line Scan (LS), V-70 Mount
- Up to 16k, 5 μm 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 5 μm pixels and 62.5mm 12k line scan cameras with 5 μm 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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