

TECHSPEC® 1.75X LS Series Line Scan Lens



LS Series Line Scan Lenses



Stock **#35-441** [CONTACT US](#)

⊖ 1 ⊕ **£3,424⁰⁰**

ADD TO CART

Volume Pricing	
Qty 1+	£3,424.00 each
Need More?	Request Quote

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

LS Series **Series:**

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

Type:

Line Scan

Beamsplitter / Line Scan:

Yes

Special Type of Lens:

Line Scan

Physical & Mechanical Properties

Iris Option:

Variable

Length (mm):

122.00

Maximum Diameter (mm):

95

Outer Diameter (mm):

95

Weight (g):

1122

Maximum Rear Protrusion (mm):

0

Lens Total Track Length (mm):

379.6

Total Track (mm):

379.60

Optical Properties

Horizontal Field of View @ Max Sensor Format:

46.9mm

Field of View at Max Sensor Format:

Diagonal: 47mm - 16.7°

Field of View, 82mm Sensor:

46.9mm

Field of View, 62.5mm Sensor:

35.7mm

Field of View, 57.7mm Sensor:

33mm

Field of View, 28.7mm Sensor:

16.4mm

Numerical Aperture NA:

0.10

Maximum Image Circle (mm):

82.00

Numerical Aperture NA, Object Side:

0.0973

Number of Elements (Groups):

12 (7)

Focal Length FL (mm):

99.00

Primary Magnification PMAG:

1.65X - 1.85X

Working Distance (mm):

65.9

Aperture (f/#):

f/3.2 - f/22

Coating:

425 - 675 BBAR VIS

Coating Specification:

425 - 675nm BBAR

Entrance Pupil Position (mm):

90.62

Object Space Principal Plane (mm):

88.34

Image Space Principal Plane (mm):

-79.41

Maximum Distortion (%):

0.05

Relative Illumination:

>97%

Exit Pupil Position (mm):

-76.74

Lens Wavelength Range:

VIS

Sensor

62.5mm **Optimized Sensor Format:**

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

5.00 **Pixel Size (µm):**

Threading & Mounting

M52 x 0.75 **Filter Thread:**

75 **Mounting Diameter (mm):**

V-70 Mbunt **Mount:**

Regulatory Compliance

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

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.