

TECHSPEC[®] 2.5X LS Series Line Scan Lens



2.5XLS Series Line Scan Lens

Stock **#35-443** 2 In Stock

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1

+

€4.280⁰⁰

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Product Downloads

General	
LS Series	Series:
Beamsplitter is included. Length includes beamsplitter. Specifications are at primary magnification.	Note:
Line Scan	Type:
Yes	Beamsplitter / Line Scan:

	Special Type of Lens:
Line Scan	

Physical & Mechanical Properties

	Iris Option:
Variable	
	Length (mm):
157.50	
	Maximum Diameter (mm):
95	
	Outer Diameter (mm):
95	
	Weight (g):
1287	
	Maximum Rear Protrusion (mm):
0	
	Lens Total Track Length (mm):
529	
	Total Track (mm):
529.00	

Optical Properties

	Horizontal Field of View @ Max Sensor Format:
32.8mm	
	Field of View at Max Sensor Format:
Diagonal: 32.9mm - 10°	
	Field of View, 82mm Sensor:
32.8mm	
	Field of View, 62.5mm Sensor:
25mm	
	Field of View, 57.7mm Sensor:
23.1mm	
	Field of View, 28.7mm Sensor:
11.5	
	Numerical Aperture NA:
0.11	
	Maximum Image Circle (mm):
82.00	
	Numerical Aperture NA, Object Side:
0.1099	
	Number of Elements (Groups):
12 (7)	
	Focal Length FL (mm):
117.00	
	Primary Magnification PMAG:
2.35X- 2.65X	
	Working Distance (mm):
62.7	
	Aperture (f/#):
f/2.9 - f/22	
	Coating:
425 - 675 BBAR VIS	
	Coating Specification:
425 - 675nm BBAR	
	Entrance Pupil Position (mm):
114.19	
	Object Space Principal Plane (mm):
95.83	
	Image Space Principal Plane (mm):
-77.27	
	Maximum Distortion (%):
0.01	
	Relative Illumination:
>98%	
	Exit Pupil Position (mm):
-61.01	
	Lens Wavelength Range:
VIS	

Sensor

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

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, 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.