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TECHSPEC®

2.5X LS Series Area Scan Lens



2.5XLS Series Area Scan Lens

Stock **#35-453**

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+

S\$5,621⁰⁰

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General	
LS Series	Product Family:
Window is included. Length includes window. Specifications are at primary magnification.	Note:
Fixed Focal Length Lens	Type:
No	Beamsplitter / Line Scan:
Special Type of Lens:	

Area Scan	
Physical & Mechanical Properties	
Variable	Iris Option:
160.80	Length (mm):
75	Maximum Diameter (mm):
75	Outer Diameter (mm):
0	Maximum Rear Protrusion (mm):
529.00	Total Track (mm):
Optical Properties	
32.8mm	Horizontal Field of View @ Max Sensor Format:
Field of View at Max Sensor Format: Horizontal: 26.3mm - 8.1° Vertical: 19.7mm - 6.1° 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:
14.4mm	Horizontal Field of View, 35mm Sensor:
11.7mm	Horizontal Field of View, APS-H Sensor:
11.5mm	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:
59.4	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	
N/A	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.