

TECHSPEC[®] 1.75X LS Series Area Scan Lens



1.75XLS Series Area Scan Lens

Stock **#35-451** **1 In Stock**

-

1

+

£3,424⁰⁰

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Volume Pricing	
Qty 1+	£3,424.00 each
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 Prices shown are exclusive of VAT/local taxes

Product Downloads

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

Area Scan	Special Type of Lens:
Physical & Mechanical Properties	
Variable	Iris Option:
125.30	Length (mm):
75	Maximum Diameter (mm):
75	Outer Diameter (mm):
0	Maximum Rear Protrusion (mm):
379.60	Total Track (mm):
Optical Properties	
Horizontal Field of View @ Max Sensor Format: 46.9mm	
Field of View at Max Sensor Format: Horizontal: 37.6mm - 13.2° Vertical: 28.2mm - 10° Diagonal: 47mm - 16.7°	
46.9mm	Field of View, 82mm Sensor:
35.7mm	Field of View, 62.5mm Sensor:
33mm	Field of View, 57.7mm Sensor:
20.6mm	Horizontal Field of View, 35mm Sensor:
16.7mm	Horizontal Field of View, APS-H Sensor:
16.4mm	Field of View, 28.7mm Sensor:
0.10	Numerical Aperture NA:
82.00	Maximum Image Circle (mm):
0.0973	Numerical Aperture NA, Object Side:
12 (7)	Number of Elements (Groups):
99.00	Focal Length FL (mm):
1.65X- 1.85X	Primary Magnification PMAG:
62.6	Working Distance (mm):
f/3.2 - f/22	Aperture (f/#):
425 - 675 BBAR VIS	Coating:
425 - 675nm BBAR	Coating Specification:
90.62	Entrance Pupil Position (mm):
88.34	Object Space Principal Plane (mm):
-79.41	Image Space Principal Plane (mm):
0.05	Maximum Distortion (%):
>97%	Relative Illumination:
-76.74	Exit Pupil Position (mm):
VIS	Lens Wavelength Range:
Sensor	
62.5mm	Optimized Sensor Format:
	Maximum Sensor Format:

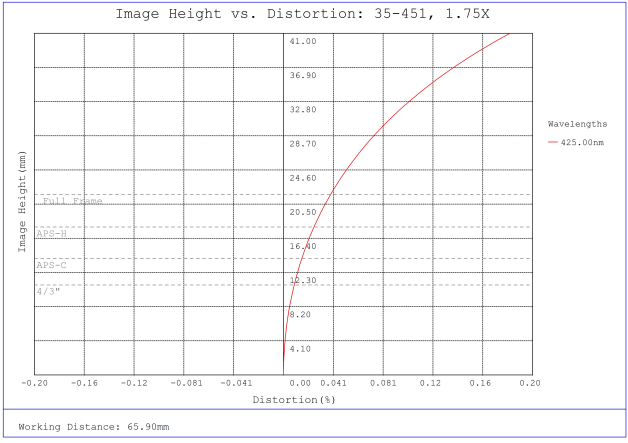
82mm (Image Circle)	
Pixel Size (µm):	5.00
Threading & Mounting	
Filter Thread:	N/A
Mounting Diameter (mm):	75
Mount:	V-70 Mbunt
Regulatory Compliance	
Certificate of Conformance:	View

Product Details

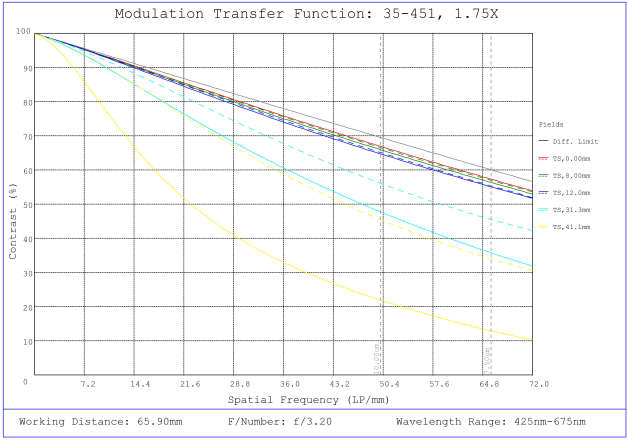
- 82mm Line Scan (LS), V-70 Mount
- Up to 16k, 5µm Pixel Size Line Scan Sensors
- High Resolution, Low Distortion, Uniform Field Performance
- 1.65X to 2.65X Primary Magnification

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.

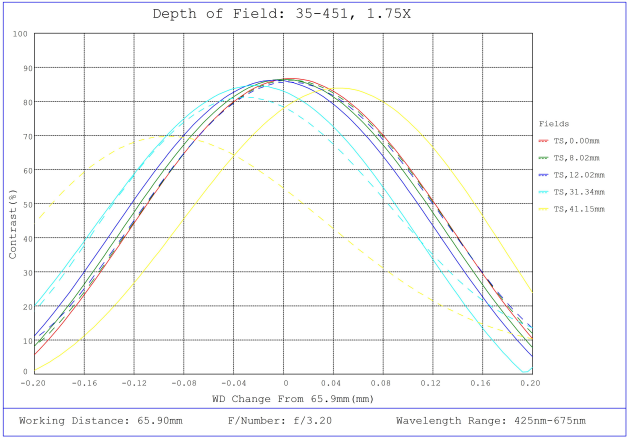
Technical Information



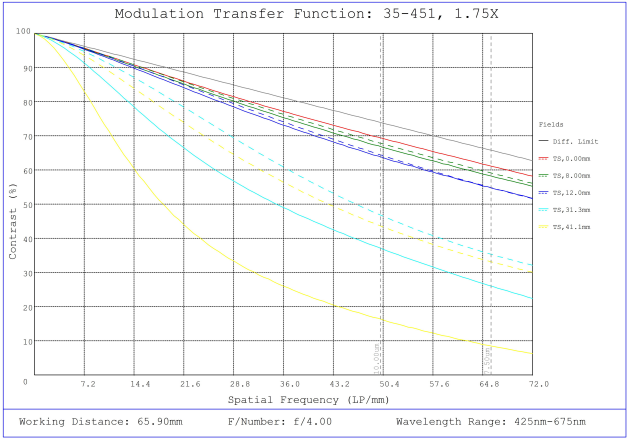
#35-451, 1.75X LS Series Area Scan Lens, Distortion Plot



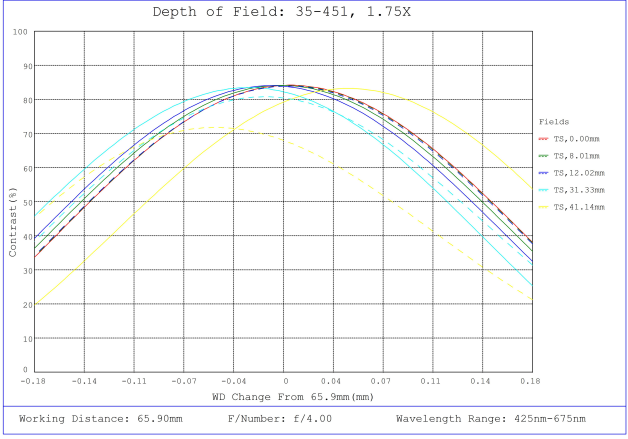
#35-451, 1.75X LS Series Area Scan Lens, Modulated Transfer Function (MTF) Plot, 65mm Working Distance, f3.2



#35-451, 1.75X LS Series Area Scan Lens, Depth of Field Plot, 66mm Working Distance, f3.2



#35-451, 1.75X LS Series Area Scan Lens, Modulated Transfer Function (MTF) Plot, 65mm Working Distance, f4



#35-451, 1.75X LS Series Area Scan Lens, Depth of Field Plot, 66mm Working Distance, f4