

TECHSPEC[®] 1.75X LS Series Line Scan Lens



LS Series Line Scan Lenses



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

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1

+

€4.280⁰⁰

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Volume Pricing	
Qty 1+	€4.280,00 each
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Product Downloads

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

Line Scan	
Yes	Beamsplitter / Line Scan:
Line Scan	Special Type of Lens:
Physical & Mechanical Properties	
Variable	Iris Option:
122.00	Length (mm):
95	Maximum Diameter (mm):
95	Outer Diameter (mm):
1122	Weight (g):
0	Maximum Rear Protrusion (mm):
379.6	Lens Total Track Length (mm):
379.60	Total Track (mm):
Optical Properties	
46.9mm	Horizontal Field of View @ Max Sensor Format:
Diagonal: 47mm - 16.7°	Field of View at Max Sensor Format:
46.9mm	Field of View, 82mm Sensor:
35.7mm	Field of View, 62.5mm Sensor:
33mm	Field of View, 57.7mm 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:
65.9	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:
82mm (Image Circle)	Maximum Sensor Format:

5.00	Pixel Size (µm):
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Threading & Mounting

M52 x0.75	Filter Thread:
75	Mounting Diameter (mm):

V-70 Mbunt	Mount:
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Regulatory Compliance

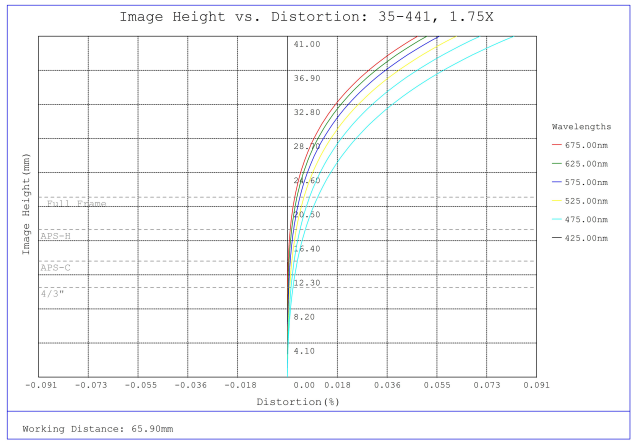
View	Certificate of Conformance:
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Product Details

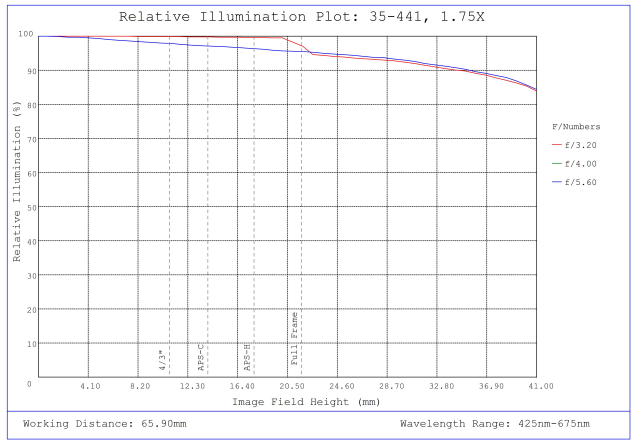
- 82mm Line Scan (LS), V-70 Mount
- Up to 16k, 5µm Pixel Size Line Scan Sensors
- High Resolution, Low Distortion, Uniform Field Performance
- 1.65X to 2.65X Primary Magnification

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.

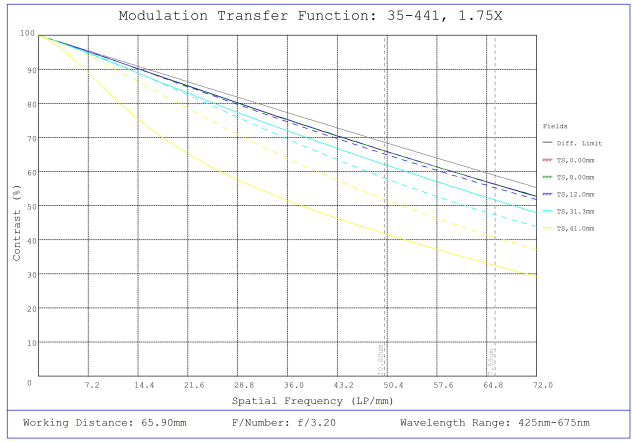
Technical Information



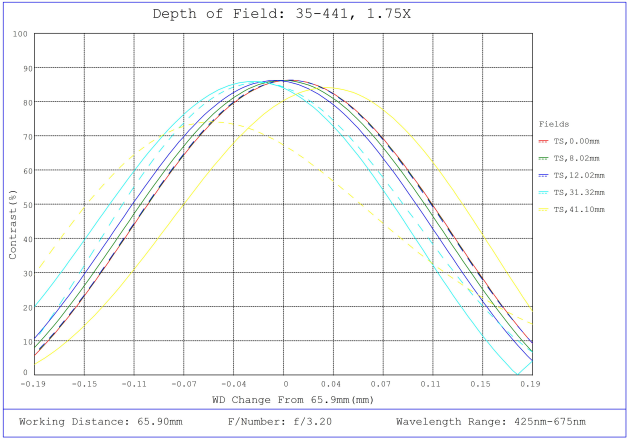
#35-441, 1.75X LS Series Line Scan Lens, Distortion Plot



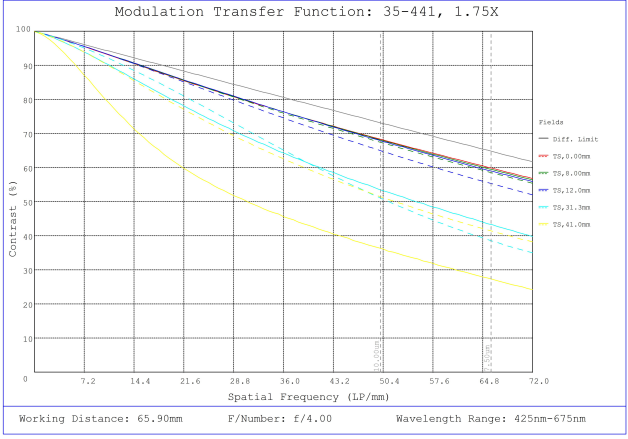
#35-441, 1.75X LS Series Line Scan Lens, Relative Illumination Plot



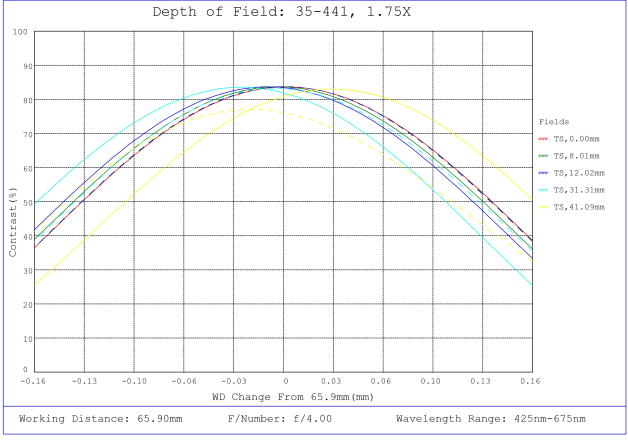
#35-441, 1.75X LS Series Line Scan Lens, Modulated Transfer Function (MTF) Plot, 65mm Working Distance, f3.2



#35-441, 1.75X LS Series Line Scan Lens, Depth of Field Plot, 66mm Working Distance, f3.2



#35-441, 1.75X LS Series Line Scan Lens, Modulated Transfer Function (MTF) Plot, 65mm Working Distance, f4



#35-441, 1.75X LS Series Line Scan Lens, Depth of Field Plot, 66mm Working Distance, f4