

**TECHSPEC® 35mm TFL-II Mount LH Series Fixed Focal Length Lens**



#13-809: 35mm TFL-II Mount LH Series Fixed Focal Length Lens

Stock **#13-809** **20+ In Stock**

⊖ 1 ⊕ €2.615<sup>00</sup>

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Qty 1+	€2.615,00 each
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ⓘ Prices shown are exclusive of VAT/local taxes

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**General**

LH Series **Product Family:**

Fixed Focal Length Lens **Type:**

Very High Performance Lens **Imaging Lens Type:**

**Physical & Mechanical Properties**

**Iris Option:**

Variable	
175.80	Length (mm):
75	Maximum Diameter (mm):
75	Outer Diameter (mm):
1029	Weight (g):
0	Maximum Rear Protrusion (mm):

## Optical Properties

312.5mm - 57.8°	Horizontal Field of View @ Max Sensor Format:
312.5mm - 57.8°	Horizontal Field of View, 35mm Sensor:
247.3mm - 47.3°	Horizontal Field of View, APS-H Sensor:
185.9mm - 36.4°	Horizontal Field of View, APS-C Sensor:
142.0mm - 28.2°	Horizontal Field of View, 4/3" Sensor:
115.9mm - 23.2°	Horizontal Field of View, 1.1" Sensor:
104.2mm - 20.9°	Horizontal Field of View, 1" Sensor:
71.3mm - 14.4°	Horizontal Field of View, 2/3" Sensor:
58.3mm - 11.8°	Horizontal Field of View, 1/1.8" Sensor:
51.8mm - 10.5°	Horizontal Field of View, 1/2" Sensor:
43.30	Maximum Image Circle (mm):
0.02137	Numerical Aperture NA, Object Side:
11 (9)	Number of Elements (Groups):
35.00	Focal Length FL (mm):
250 - ∞	Working Distance (mm):
f/2.8 - f/22	Aperture (f/#):
<6.8	Distortion (%):
λ/4 MgF <sub>2</sub>	Coating:
λ/4 MgF <sub>2</sub>	Coating Specification:
6.8	Maximum Distortion (%):
VIS	Lens Wavelength Range:

## Sensor

APS-H	Optimized Sensor Format:
35mm (43.3mm Image Circle)	Maximum Sensor Format:
2.20	Pixel Size (μm):

## Threading & Mounting

M72 x 0.75 (Female)	Filter Thread:
TFL-II Mount	Mount:

## Regulatory Compliance

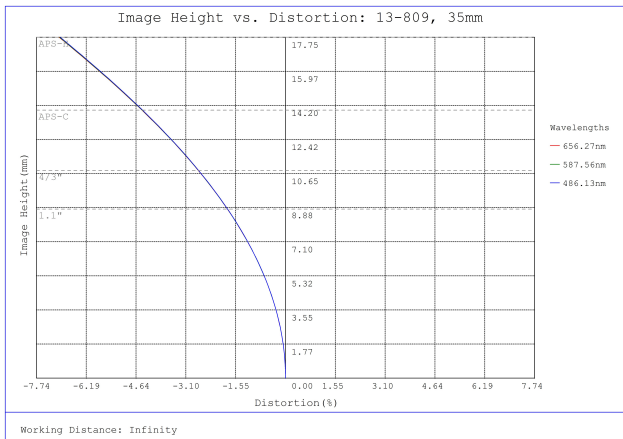
<a href="#">View</a>	Certificate of Conformance:
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## Product Details

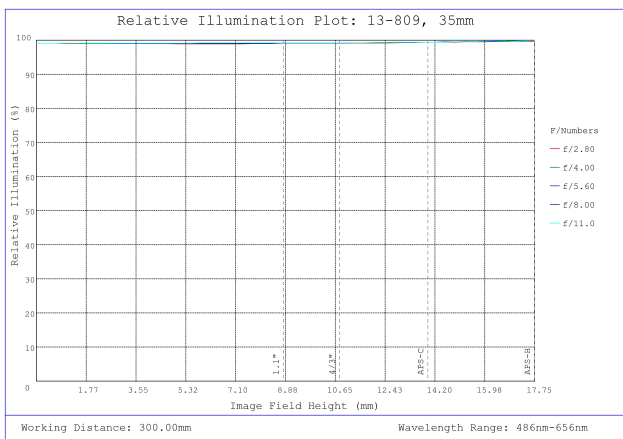
- Compatible with APS-H (35.5mm) and 35mm Full Frame Sensors
- 120 MegaPixels, 2.2 $\mu$ m Pixel Size Sensors
- Large format Lenses for APS-H Sensors (LH)
- Ultra-High Resolution Large Format Lenses

TECHSPEC® LH Series Fixed Focal Length Lenses are designed for 120 Megapixel sensors in an APS-H format. The LH Series are the first large format lenses to truly support the 2.2 $\mu$ m pixel size featured on the Canon 120MP CMOS Sensor. These ultra-high resolution lenses work with APS-H sensors (35.5mm diagonal) and also on larger 35mm full frame sensors (43.3mm diagonal). TECHSPEC LH Series Fixed Focal Length Lenses provide a solution for the ultra-high resolution requirements of machine vision and many [factory automation](#) and display inspection applications. F-Mount or TFL-II Mount versions are available.

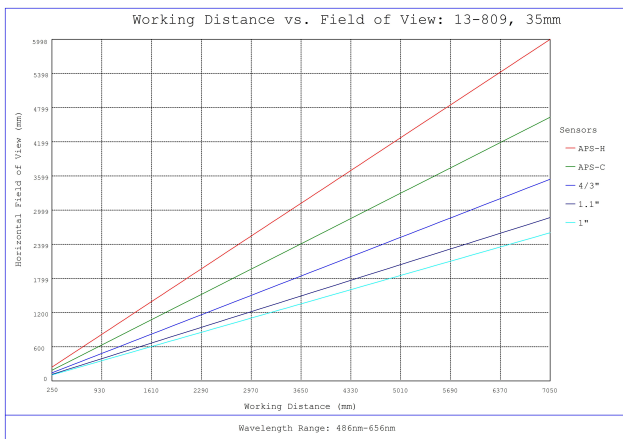
## Technical Information



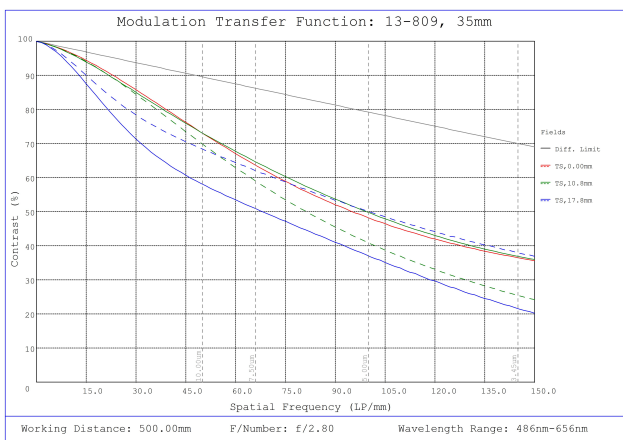
#13-809, 35mm TFL-II Mount LH Series Fixed Focal Length Lens, Distortion Plot



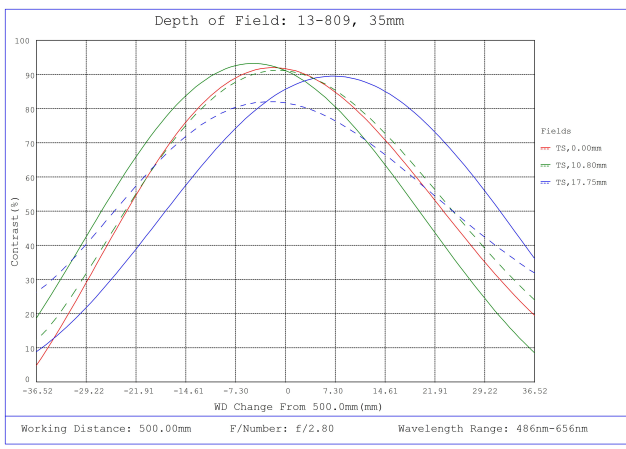
#13-809, 35mm TFL-II Mount LH Series Fixed Focal Length Lens, Relative Illumination Plot



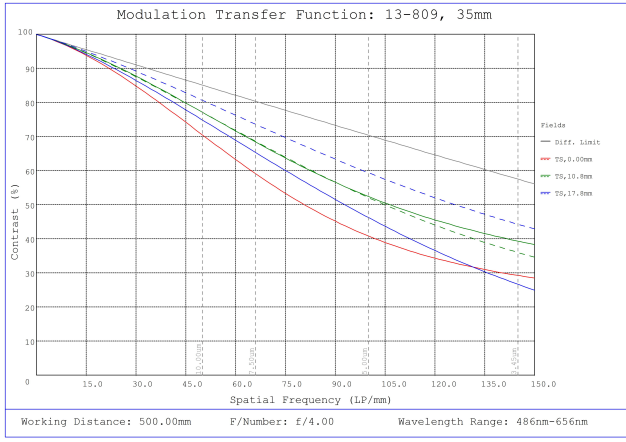
#13-809, 35mm TFL-II Mount LH Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



#13-809, 35mm TFL-II Mount LH Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 500mm Working Distance, f2.8



#13-809, 35mm TFL-II Mount LH Series Fixed Focal Length Lens, Depth of Field Plot, 500mm Working Distance, f2.8



#13-809, 35mm TFL-II Mount LH Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 500mm Working Distance, f4



#13-809, 35mm TFL-II Mount LH Series Fixed Focal Length Lens, Depth of Field Plot, 500mm Working Distance, f4