

**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 ⊕ £2,092<sup>00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | £2,092.00 each                |
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

**General**

LH Series **Series:**

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

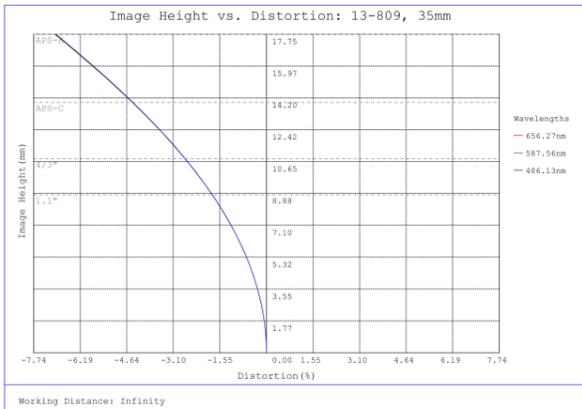
|                      |                             |
|----------------------|-----------------------------|
| <a href="#">View</a> | Certificate of Conformance: |
|----------------------|-----------------------------|

## Product Details

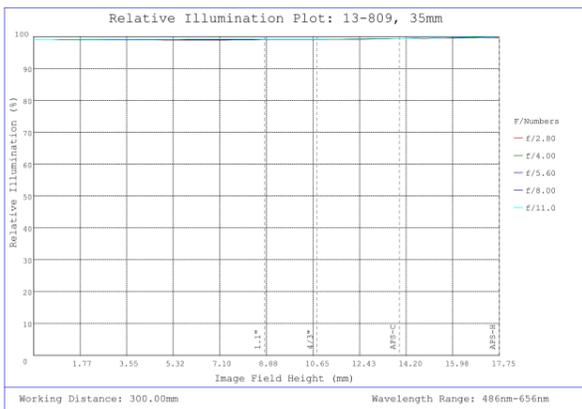
- Compatible with APS-H (35.5mm) and 35mm Full Frame Sensors
- 120 MegaPixels, 2.2µm Pixel Size Sensors
- Large format Lenses for APS-H Sensors (LH)
- Ultra-High Resolution Large Format Lenses

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 2.2µm 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.

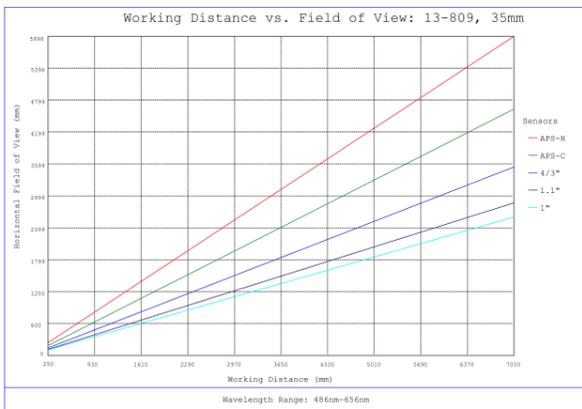
## Technical Information



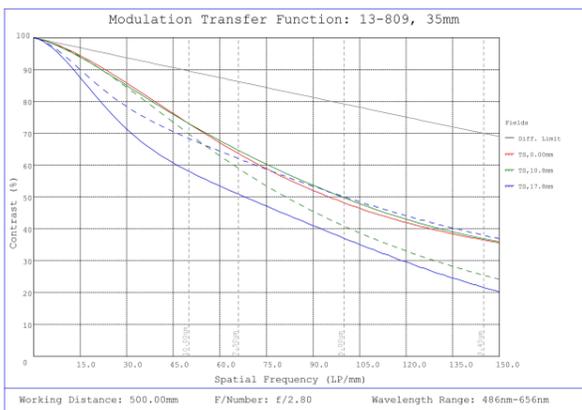
#13-809, 35mm TFL-II Mount LH Series Fixed Focal Length Lens, Distortion Plot



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



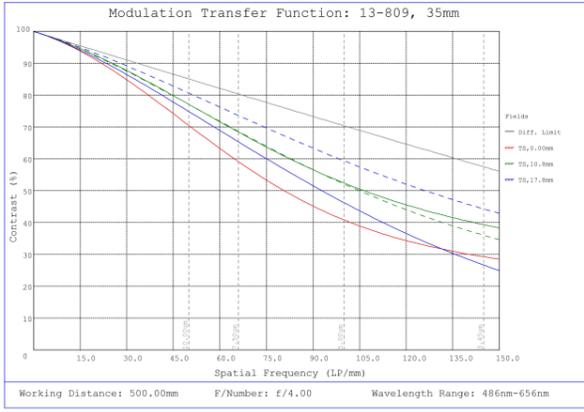
#13-809, 35mm TFL-II Mount LH Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



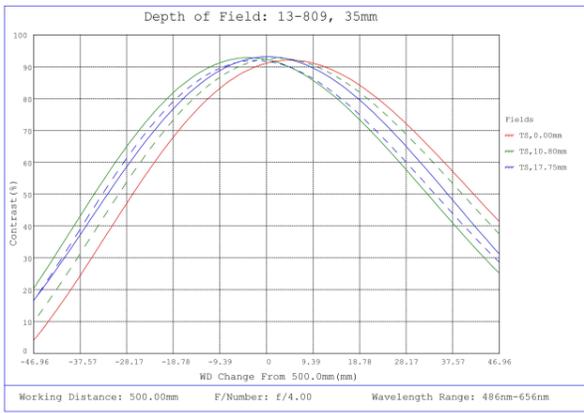
#13-809, 35mm TFL-II Mount LH Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 500mm Working Distance, f2.8



#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