

TECHSPEC® 8.5mm C VIS-NIR Series Fixed Focal Length Lens



8.5mm C VIS-NIR Series Fixed Focal Length Lens

Stock #27-553 **12 In Stock**

⊖ 1 ⊕ €441⁰⁰

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| Qty 1+ | €441,00 each |
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Product Family:
C VIS-NIR Series

Type:
Fixed Focal Length Lens

Imaging Lens Type:
Compact Lens Coated for Visible to Near Infrared

Physical & Mechanical Properties

Iris Option:

| | |
|----------|-------------------------------|
| Variable | |
| 34.50 | Length (mm): |
| 32.0 | Maximum Diameter (mm): |
| 32 | Outer Diameter (mm): |
| 80 | Weight (g): |
| 0 | Maximum Rear Protrusion (mm): |

Optical Properties

| | |
|-------------------|-----------------------------------------------|
| 60.6° | Horizontal Field of View @ Max Sensor Format: |
| | Field of View at Max Sensor Format: |
| | Horizontal: 60.4° |
| | Vertical: 44.9° |
| | Diagonal: 76.7° |
| 60.4° | Horizontal Field of View, 2/3" Sensor: |
| 49.2° | Horizontal Field of View, 1/1.8" Sensor: |
| 43.6° | Horizontal Field of View, 1/2" Sensor: |
| 39.5° | Horizontal Field of View, 1/2.5" Sensor: |
| 32.6° | Horizontal Field of View, 1/3" Sensor: |
| 24.4° | Horizontal Field of View, 1/4" Sensor: |
| 11.00 | Maximum Image Circle (mm): |
| 0.0289 | Numerical Aperture NA, Object Side: |
| 7 (5) | Number of Elements (Groups): |
| 8.50 | Focal Length FL (mm): |
| 100 - ∞ | Working Distance (mm): |
| f/1.3 - f/16 | Aperture (f/#): |
| 425 - 1000nm BBAR | Coating: |
| 425 - 1000nm BBAR | Coating Specification: |
| 8.22 | Entrance Pupil Position (mm): |
| 14.08 | Object Space Principal Plane (mm): |
| 6.67 | Image Space Principal Plane (mm): |
| -18.4 | Maximum Distortion (%): |
| -12.23 | Exit Pupil Position (mm): |
| VIS-NIR | Lens Wavelength Range: |

Sensor

| | |
|------|------------------------|
| 2/3" | Maximum Sensor Format: |
| 2.74 | Pixel Size (µm): |

Threading & Mounting

| | |
|-----------------------|----------------|
| M25.5 x 0.50 (Female) | Filter Thread: |
| C-Mount | Mount: |

Environmental & Durability Factors

Storage Temperature (°C):
-20 to +60 For questions regarding operating

Regulatory Compliance

Compliant **RoHS 2015:**

View **Certificate of Conformance:**

Compliant **Reach 251:**

Product Details

- Up to 2/3", C-Mount Lens
- Up to 7.5 MegaPixels, 2.8µm Pixel Size Sensors
- Compact (C) Broadband Lens for 425-1000nm Wavelength Range
- 3.5mm to 50mm Focal Length

TECHSPEC® C Series Fixed Focal Length VIS-NIR Lenses are designed for use in machine vision applications that require NIR or VIS-NIR performance, with the working distance and resolution requirements of factory automation and inspection in mind. Featuring large maximum apertures and a Broadband Anti-Reflection (BBAR) coating designed out to 1000nm, these high performance lenses can be used in even the most restrictive lighting conditions. TECHSPEC® C Series Fixed Focal Length VIS-NIR Lenses are manufactured to a high tolerance, resulting in greater levels of imaging performance and low lens-to-lens variation, assuring simple installing into multiple systems. By combining high optical performance, industrial features, and small package size, the C Series Fixed Focal Length VIS-NIR Lenses represent a new standard in factory automation optics.

Also available with a [VIS Broadband Anti-Reflection \(BBAR\)](#) or [SWIR](#) Coatings

Note: For IR imaging alone, [UV-VIS Cut Filters](#) are available and thread directly onto the front filter threads of the 4.5mm, 16mm, 25mm, 35mm and 50mm FL lenses.

Technical Information

| Focal Length | A | B | C | D |
|--------------|--------|--------|--------|--------|
| 3.5mm | 50.0mm | 39.3mm | 32.0mm | 2.72mm |
| 4.5mm | 40.0mm | 37.5mm | 32.0mm | 2.78mm |
| 6.0mm | 36.0mm | 48.9mm | 35.8mm | 1.4mm |
| 8.5mm | 32.0mm | 34.5mm | 32.0mm | 0.0mm |
| 12mm | 32.0mm | 27.9mm | 32.0mm | 0.5mm |
| 16mm | 33.0mm | 40.5mm | 33.0mm | 1.0mm |
| 25mm | 31.0mm | 30.5mm | 31.0mm | 1.3mm |
| 35mm | 33.0mm | 41.0mm | 33.0mm | 0.0mm |
| 50mm | 35.8mm | 53.7mm | 35.8mm | 2.85mm |
| 100mm | 52.0mm | 93.5mm | 41.0mm | 7.0mm |

