

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



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Stock **#27-553** [CONTACT US](#)

⊖ 1 ⊕ **A\$479⁰⁰**

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General

C VIS-NIR Series **Product Family:**

Fixed Focal Length Lens **Type:**

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

Physical & Mechanical Properties

Variable **Iris Option:**

Length (mm):

34.50

Maximum Diameter (mm):

32.0

Outer Diameter (mm):

32

Weight (g):

80

Maximum Rear Protrusion (mm):

0

Optical Properties

Horizontal Field of View @ Max Sensor Format:

60.6°

Field of View at Max Sensor Format:

Horizontal: 60.4°

Vertical: 44.9°

Diagonal: 76.7°

Horizontal Field of View, 2/3" Sensor:

60.4°

Horizontal Field of View, 1/1.8" Sensor:

49.2°

Horizontal Field of View, 1/2" Sensor:

43.6°

Horizontal Field of View, 1/2.5" Sensor:

39.5°

Horizontal Field of View, 1/3" Sensor:

32.6°

Horizontal Field of View, 1/4" Sensor:

24.4°

Maximum Image Circle (mm):

11.00

Numerical Aperture NA, Object Side:

0.0289

Number of Elements (Groups):

7 (5)

Focal Length FL (mm):

8.50

Working Distance (mm):

100 - ∞

Aperture (f#):

f/1.3 - f/16

Coating:

425 - 1000nm BBAR

Coating Specification:

425 - 1000nm BBAR

Entrance Pupil Position (mm):

8.22

Object Space Principal Plane (mm):

14.08

Image Space Principal Plane (mm):

6.67

Maximum Distortion (%):

-18.4

Exit Pupil Position (mm):

-12.23

Lens Wavelength Range:

VIS-NIR

Sensor

Maximum Sensor Format:

2/3"

Pixel Size (µm):

2.74

Threading & Mounting

Filter Thread:

M25.5 x 0.50 (Female)

Mount:

C-Mount

Environmental & Durability Factors

Storage Temperature (°C):

-20 to +60 For questions regarding operating temperature please contact our support team

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 |

