

TECHSPEC® 75mm C VIS-NIR Series Fixed Focal Length Lens



Stock #74-054 **NEW** [CONTACT US](#)

- 1 + **\$473⁰⁰**

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| Qty 1+ | \$473.00 each |
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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):

98.76

48.0 **Maximum Diameter (mm):**

48.0 **Outer Diameter (mm):**

7.24 **Maximum Rear Protrusion (mm):**

Optical Properties

Horizontal Field of View @ Max Sensor Format:
5.76°

Field of View at Max Sensor Format:
Horizontal: 5.76°
Vertical: 4.32°
Diagonal: 7.19°

5.76° **Horizontal Field of View, 2/3" Sensor:**

4.71° **Horizontal Field of View, 1/1.8" Sensor:**

4.19° **Horizontal Field of View, 1/2" Sensor:**

3.77° **Horizontal Field of View, 1/2.5" Sensor:**

3.14° **Horizontal Field of View, 1/3" Sensor:**

11.00 **Maximum Image Circle (mm):**

0.05111 **Numerical Aperture NA, Object Side:**

7 (6) **Number of Elements (Groups):**

75.00 **Focal Length FL (mm):**

500 - ∞ **Working Distance (mm):**

f/2.0 - f/16.0 **Aperture (f#):**

425 - 1000nm BBAR **Coating:**

425 - 1000nm BBAR **Coating Specification:**

63.265 **Entrance Pupil Position (mm):**

-15.01 **Object Space Principal Plane (mm):**

-64.79 **Image Space Principal Plane (mm):**

0.068 **Maximum Distortion (%):**

-31.983 **Exit Pupil Position (mm):**

VIS-NIR **Lens Wavelength Range:**

VIS-NIR **Wavelength:**

Sensor

2/3" **Maximum Sensor Format:**

Threading & Mounting

M43 x 0.75 (Female) **Filter Thread:**

C-Mount **Mount:**

Environmental & Durability Factors

Storage Temperature (°C):
-20 to +60 For questions regarding operating temperature please contact our support team

Regulatory Compliance

[View](#) **Certificate of Conformance:**

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 MS-NIR Lenses are designed for use in machine vision applications that require NIR or MS-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 MS-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 MS-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 |

