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



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Stock **#27-553** **20+ In Stock**

⊖ 1 ⊕ **\$434.00**

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General

C VIS-NIR Series **Series:**

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

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
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	0mm
50mm	35.8mm	53.7mm	35.8mm	2.85mm

