

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



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+

₹28,600

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General	
C VIS-NIR Series	Series:
Fixed Focal Length Lens	Type:
Imaging Lens Type: Compact Lens Coated for Visible to Near Infrared	
Physical & Mechanical Properties	
Variable	Iris Option:

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:
Horizontal: 60.4° Vertical: 44.9° Diagonal: 76.7°	Field of View at Max Sensor Format:
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 x0.50 (Female)	Filter Thread:
C-Mount	Mount:

Environmental & Durability Factors

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

Certificate of Conformance:	
View	
Country of Origin:	
China	
Imported By:	
Edmund Optics India Private Limited	

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
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

Max. Rear Protrusion (D)

Overall Max. Length (B)

Max. Outer Diameter (A)

Filter Thread

Mounting Diameter (C)

Focus Adjustment

Focus Locking Screw

Iris Locking Screw

Iris Adjustment

C-Mount