

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



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

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1

+

€441⁰⁰

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Volume Pricing	
Qty 1+	€441,00 each
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Product Downloads

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

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:
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	Storage Temperature (°C):
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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 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

