

TECHSPEC[®] 8.5mm, f/4 Ci Series Fixed Focal Length Lens



8.5mm Focal Length

Stock **#86-602** **3 In Stock**

-

1

+

£170⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-24	£170.00 each
Qty 25+	£153.00 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Ci Series

Series:

Fixed Focal Length Lens

Type:

Physical & Mechanical Properties

Fixed

Iris Option:

33.98	Length (mm):
26.5	Maximum Diameter (mm):
26.5	Outer Diameter (mm):
34	Weight (g):
0.6	Maximum Rear Protrusion (mm):
26.50	Diameter (mm):

Optical Properties

Horizontal Field of View @ Max Sensor Format: 128.6mm - 60.6°	
Field of View at Max Sensor Format: Horizontal: 124.9mm - 60.7° Vertical: 88.9mm - 45° Diagonal: 169.1mm - 77°	
Horizontal Field of View, 2/3" Sensor: 128.6mm - 60.6°	
Horizontal Field of View, 1/1.8" Sensor: 101.0mm - 49.2°	
Horizontal Field of View, 1/2" Sensor: 88.3mm - 43.6°	
Horizontal Field of View, 1/2.5" Sensor: 79.2mm - 39.5°	
Horizontal Field of View, 1/3" Sensor: 64.6mm - 32.6°	
Horizontal Field of View, 1/4" Sensor: 47.8mm - 24.4°	
11.00	Maximum Image Circle (mm):
0.0097	Numerical Aperture NA, Object Side:
7 (5)	Number of Elements (Groups):
8.50	Focal Length FL (mm):
100 - ∞	Working Distance (mm):
f/4	Aperture (f/#):
425 - 675nm BBAR	Coating:
425 - 675nm BBAR	Coating Specification:
8.22	Entrance Pupil Position (mm):
14.08	Object Space Principal Plane (mm):
6.67	Image Space Principal Plane (mm):
-18.51	Maximum Distortion (%):
-12.23	Exit Pupil Position (mm):
VS	Lens Wavelength Range:

Sensor

2/3"	Maximum Sensor Format:
2.74	Pixel Size (µm):

Threading & Mounting

M30.5 x0.50 (Male)	Filter Thread:
#89-932 (Required)	Filter Thread Adapter:
M22.0 x0.5 (Male)	Front Thread:

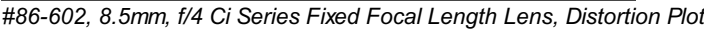
C-Mount	
Environmental & Durability Factors	
	Storage Temperature (°C): -20 to +60
	Type of Ruggedization: Industrial (Fixed Aperture with Simplified Mechanics)

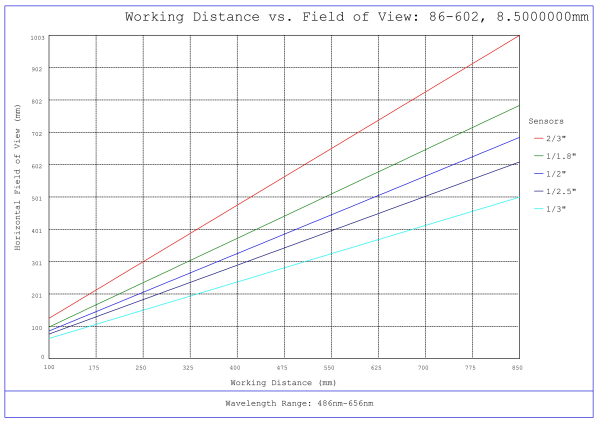
Compliant	RoHS 2015:
Compliant	REACH 201:
View	Certificate of Conformance:

- Up to 2/3", C-Mount Lens
- Up to 7.5 MegaPixels, 2.8µm Pixel Size Sensors
- Instrumentation (Ci) Versions of our C Series Lenses with Streamlined Mechanical Designs and Fixed Apertures
- 3.5mm to 50mm Focal Length
- **Ruggedized (Cr) Designs** Also Available

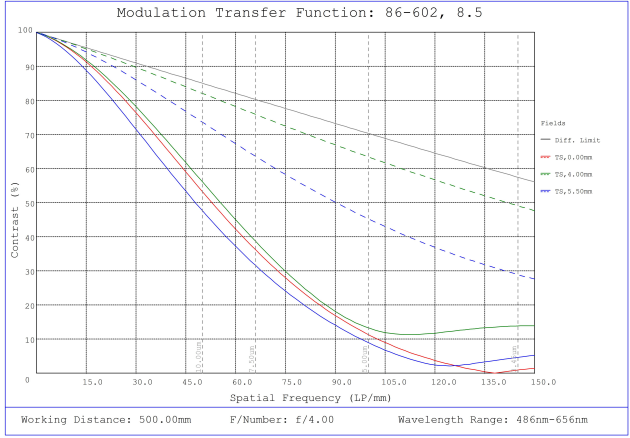
Edmund Optics has created a family of high performance optical designs (the C Series family) and developed 6 customized optomechanical solutions targeted for specific applications. These lens sub-families utilize the same optics as the C Series lenses providing the same optical performance in a variety of optomechanical solutions to meet your application requirements:

- ## Technical Information

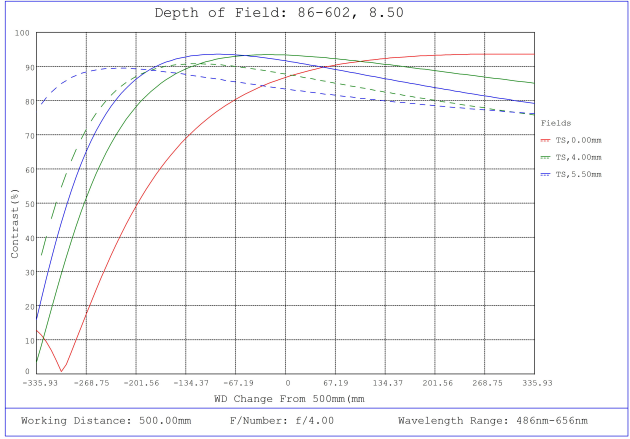




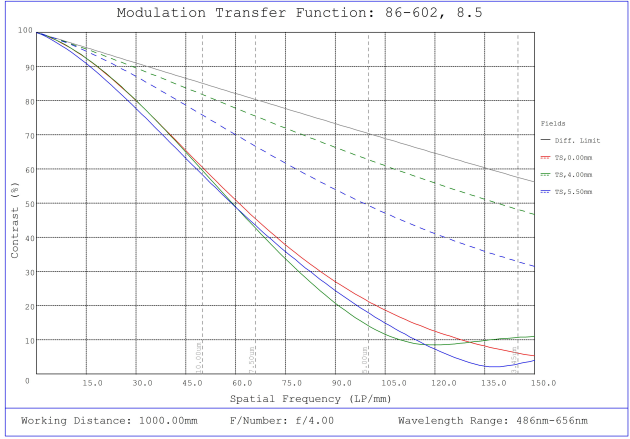
#86-602, 8.5mm, f/4 Ci Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



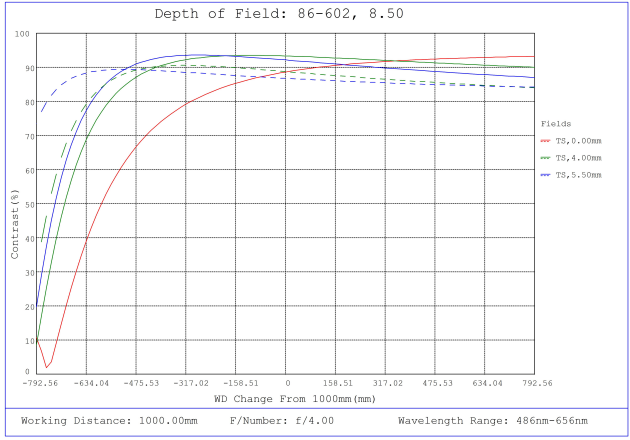
#86-602, 8.5mm, f/4 Ci Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 500mm Working Distance, f4



#86-602, 8.5mm, f/4 Ci Series Fixed Focal Length Lens, Depth of Field Plot, 500mm Working Distance, f4

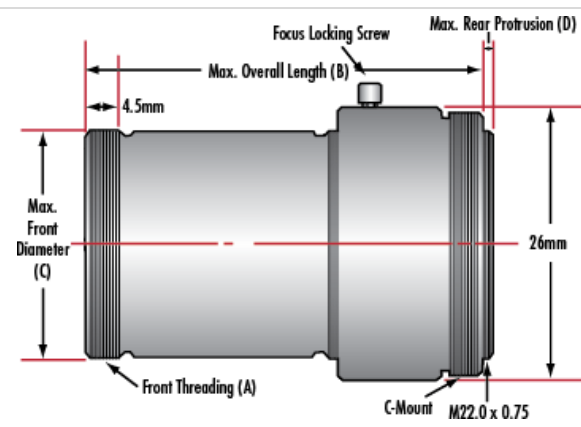


#86-602, 8.5mm, f/4 Ci Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 1000mm Working Distance, f4



#86-602, 8.5mm, f/4 Ci Series Fixed Focal Length Lens, Depth of Field Plot, 1000mm Working Distance, f4

Focal Length	A	B	C	D
6mm	M34.0 x0.5	47.8mm	34mm	1.17mm
12mm	M22.0 x0.75	29.0mm	22mm	0.96mm
16mm	M22.0 x0.75	40.8mm	22mm	1.09mm
25mm	M22.0 x0.75	29.9mm	22mm	1.33mm
35mm	M25.5 x0.5	41mm	22.5mm	3.82mm
50mm	M30.5 x0.5	49.5mm	30.5mm	2.06mm



Compatible Cameras