TECHSPEC® 4mm f/5.6 Sealed UCw Series Fixed Focal Length Lens

UCw Series Fixed Focal Length Lenses

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SPECIFICATIONS

General

Series:
UCw Series

Type:
Fixed Focal Length Lens

Imaging Lens Type:
High Performance Lens with Compact Form Factor

Physical & Mechanical Properties

Iris Option:
Fixed

Length (mm):
40.71

Maximum Diameter (mm):
40

Outer Diameter (mm):
40

Maximum Rear Protrusion (mm):
6.01

Maximum Length (mm):
40.6

Optical Properties

Horizontal Field of View @ Max Sensor Format:
84.8°

Horizontal Field of View, 1/2" Sensor:
84.8°

Horizontal Field of View, 1/2.5" Sensor:
77.8°

Horizontal Field of View, 1/3" Sensor:
65.4°

Horizontal Field of View, 1/4" Sensor:
49.7°

Maximum Image Circle (mm):
8.00

Numerical Aperture NA, Object Side:
0.03

Number of Elements (Groups):
8 (7)

Focal Length FL (mm):
4.00

Working Distance (mm):
0 - ∞

Aperture (f/#):
f/5.6

Coating:
λ/4 MgF_2

Coating Specification:
λ/4 MgF_2

Entrance Pupil Position (mm):
12.69

Object Space Principal Plane (mm):
16.04

Image Space Principal Plane (mm):
5.84

Maximum Distortion (%):
-20.43

Exit Pupil Position (mm):
-12.68

Lens Wavelength Range:
VIS

Sensor

Optimized Sensor Format:
1/2.5"

Maximum Sensor Format:
1/2"

Pixel Size (µm):
1.85

Threading & Mounting

Filter Thread:
M62 x 0.75 (Male)

Filter Thread Adapter:
#33-308 (Required)

Front Thread:
M40 x 0.5 (Male)

Mount:
C-Mount

Environmental & Durability Factors

Environmental Rating:
IP67

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

Type of Ruggedization:
Waterproof (IPX7)

Regulatory Compliance

Certificate of Conformance:
View

PRODUCT DETAILS

- Up to 1/2”, C-Mount Lens
- Ultra-Compact (UC), High Resolution Lens for Small Sensors
- Waterproof Versions of UC Series Fixed Focal Length Lenses
- Meets IEC Ingress Protection Ratings of IPX7

TECHSPEC® UCw Series Fixed Focal Length Lenses are waterproof versions of our **TECHSPEC® UC Series Fixed Focal Length Lenses**, and are designed to meet IEC Ingress Protection Codes IPX7 to withstand exposure to water up to 1 meter depth for 30 minutes. Additionally, their compact size provides high performance at an affordable cost without sacrificing quality or feel. These lenses include a hydrophobic coated window to prevent water droplets from settling on the lens' surface and are sealed with multiple O-rings to prevent moisture from entering the housing. TECHSPEC® UCw Series Fixed Focal Length Lenses are ideal for applications in space constrained, harsh environments such as food inspection, security, medical, and factory automation.

Edmund Optics has created a family of high-performance ultra-compact optical designs (the UC Series family) and developed 3 customized optomechanical solutions targeted for specific applications. These lens sub-families utilize the same optics as the UC Series lenses providing the same optical performance in a variety of optomechanical solutions to meet your application requirements:

UC Series: Features locking cam focus and iris adjustment in an ultra-compact design and is the most adjustable version of these optical designs; they are the typical high-quality machine vision lenses.

UCi Series: Simplified mechanics featuring fixed apertures with compact housing. **Industrial Ruggedization** for reduced size, cost, and locked focus.

UCr Series: All optics glued in place and a locking C-clamp focus ring. **Stabilized Ruggedization** for reduced pixel shift and improved focus stability.

UCw Series: Waterproof, designed to meet IEC **Ingress Protection** Code IPX7 to withstand exposure to water up to 1 meter depth for 30 minutes.