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TECHSPEC® 12mm, f/5.6 Sealed UCw Series Fixed Focal Length Lens

UCw Series Fixed Focal Length Lenses

Stock **#70-605** **3 In Stock**

- 1 + **MRP ₹25,456**

Price inclusive of all taxes

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General

Product Family:
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):
34.16

Maximum Diameter (mm):
30

Outer Diameter (mm):
30

Maximum Rear Protrusion (mm):
4.52

Maximum Length (mm):
35.2

Optical Properties

Horizontal Field of View @ Max Sensor Format:
34.0°

Horizontal Field of View, 1/1.8" Sensor:
34.0°

Horizontal Field of View, 1/2" Sensor:
30.3°

Horizontal Field of View, 1/2.5" Sensor:
27.5°

Horizontal Field of View, 1/3" Sensor:
22.8°

Horizontal Field of View, 1/4" Sensor:
17.1°

Maximum Image Circle (mm):
9.00

Numerical Aperture NA, Object Side:
0.01

Number of Elements (Groups):
7 (6)

Focal Length FL (mm):
12.00

Working Distance (mm):
100 - ∞

Aperture (f/#):
f/5.6

Coating:
λ/4 MgF_2

Coating Specification:
λ/4 MgF_2

Entrance Pupil Position (mm):
15.92

Object Space Principal Plane (mm):
23.04

Image Space Principal Plane (mm):
-1.82

Maximum Distortion (%):
-3.03

Exit Pupil Position (mm):
-19.24

Lens Wavelength Range:
VIS

Sensor

Optimized Sensor Format:
1/2.5"

Maximum Sensor Format:
1/1.8"

Pixel Size (µm):
1.85

Threading & Mounting

Filter Thread:
M25.5 x 0.50 (Female)

Mount:
C-Mount

Environmental & Durability Factors

Environmental Rating:
IPX7

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

Country of Origin:
China

Imported By:
Edmund Optics India Private Limited
267, Greystone Building, Second Floor,
6th Cross Rd, Binnamangala,
Stage 1, Indiranagar, Bengaluru,
Karnataka, India 560038
Phone: +91- 80-6845 0000

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.

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