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TECHSPEC® UCr Series Fixed Focal Length Lenses



- [Ruggedized Designs](#) of our [UC Series Lens](#)
- 1/1.8", S-Mount Lens with 50g Shock Resistance
- Up to 12 MegaPixels, 1.85µm Pixel Size Sensors

Common Specifications

General

Imaging Lens Type:

Ruggedized High Performance Lens with Compact Form Factor

Physical & Mechanical Properties

Iris Option: Fixed

Length (mm):	38.00	Maximum Diameter (mm):	22.00
Outer Diameter (mm):	22.00	Maximum Length (mm):	38.00

Optical Properties

Horizontal Field of View, 1/2" Sensor:	30.3°	Horizontal Field of View, 1/3" Sensor:	22.8°
Maximum Image Circle (mm):	9.00	Horizontal Field of View @ Max Sensor Format:	34.0°
Number of Elements (Groups):	7 (6)	Horizontal Field of View, 1/1.8" Sensor:	34.0°

Wavelength Range (nm):	380 - 700	Horizontal Field of View, 1/2.5" Sensor:	27.5°
Focal Length FL (mm):	12.00	Primary Magnification PMAG:	0.105
Working Distance (mm):	100 - ∞	Coating:	λ/4 MgF ₂
Coating Specification:	λ/4 MgF ₂	Entrance Pupil Position (mm):	16.05
Horizontal Field of View, 1/4" Sensor:	17.1°	Object Space Principal Plane (mm):	23.04
Image Space Principal Plane (mm):	-1.82	Field of View at Max Sensor Format:	Horizontal: 34° Vertical: 25.6° Diagonal: 42.2°
Maximum Distortion (%):	-3.03	Exit Pupil Position (mm):	-18.56
Wavelength:	VIS		

Sensor

Optimized Sensor Format:	1/2.5"
Maximum Sensor Format:	1/1.8"

Threading & Mounting



Filter Thread:	M22 x 0.75 (Female)		
Front Thread:	M22 x 0.75 (Female)	Mount:	S-Mount (M12 x 0.5)

Environmental & Durability Factors

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

Products

FL (mm)	Max. Sensor Format	Aperture (f/#)	WD (mm)	Mount	Stock Number	Price	Buy
#71-453 New							
							
New							
Launched on our website before appearing in our latest print catalogs. Be the first to buy before anyone else!							
12.00	1/1.8"	f/1.8	100 - ∞	S-Mount (M12 x 0.5)		₹21,315	Contact Us
#71-454 New							
							
New							
Launched on our website before appearing in our latest print catalogs. Be the first to buy before anyone else!							
12.00	1/1.8"	f/2.8	100 - ∞	S-Mount (M12 x 0.5)		₹21,315	10 to 12 days

[#71-455 New](#)



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12.00	1/1.8"	f/4.0	100 - ∞	S- Mount (M12 x 0.5)	₹21,315	10 to 12 days
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[#71-456 New](#)



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12.00	1/1.8"	f/5.6	100 - ∞	S- Mount (M12 x 0.5)	₹21,315	10 to 12 days
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[#71-457 New](#)



New

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12.00

1/1.8"

f/8.0

100 -
∞

S-
Mount
(M12 x
0.5)

₹21,315

10 to 12 days

[#71-458 New](#)



New

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12.00

1/1.8"

f/11.0

100 -
∞

S-
Mount
(M12 x
0.5)

₹21,315

10 to 12 days

[#71-459 New](#)



New

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12.00	1/1.8"	f/16.0	100 - ∞	S- Mount (M12 x 0.5)	₹21,315	10 to 12 days
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Copyright 2023, Edmund Optics India Private Limited, #267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038
Phone: 1-800-363-1992 :
www.edmundoptics.com