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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

Series:	UCr Series	Imaging Lens Type:	Ruggedized High Performance Lens with Compact Form Factor
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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 @ Max Sensor Format:	34.0°		
Field of View at Max Sensor Format:	Horizontal: 34° Vertical: 25.6° Diagonal: 42.2°	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		Number of Elements (Groups): 7 (6)	
Wavelength Range (nm): 380 - 700		Focal Length FL (mm): 12.00	
Working Distance (mm): 100 - ∞		Coating: λ/4 MgF ₂	
Coating Specification: λ/4 MgF ₂		Entrance Pupil Position (mm): 16.05	
Object Space Principal Plane (mm): 23.04		Image Space Principal Plane (mm): -1.82	
Maximum Distortion (%): -3.03		Exit Pupil Position (mm): -18.56	
Wavelength: VIS			
Sensor			
Optimized Sensor Format:			
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		Type of Ruggedization: Stabilized (Robust Mechanics for Shock and Vibration)	

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)		S\$394.80	3 In Stock
#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)		S\$394.80	1 In Stock

[#71-455 New](#)



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12.00	1/1.8"	f/4.0	100 - ∞	S- Mount (M12 x 0.5)	S\$394.80	5 In Stock
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12.00	1/1.8"	f/5.6	100 - ∞	S- Mount (M12 x 0.5)	S\$394.80	1 In Stock
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12.00	1/1.8"	f/8.0	100 - ∞	S- Mount (M12 x 0.5)	S\$394.80	1 In Stock
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12.00	1/1.8"	f/11.0	100 - ∞	S- Mount (M12 x 0.5)	S\$394.80	2 In Stock
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[#71-459 New](#)



New

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12.00	1/1.8"	f/16.0	100 - ∞	S- Mount (M12 x 0.5)	S\$394.80	2 In Stock
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