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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°	Horizontal Field of View, 1/1.8" Sensor:	34.0°
Field of View at Max Sensor Format:	Horizontal: 34° Vertical: 25.6° Diagonal: 42.2°		
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:	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	Type of Ruggedization:	Stabilized (Robust Mechanics for Shock and Vibration)
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Technical Information

Products

FL (mm)	Max. Sensor Format	Aperture (f/#)	WD (mm)	Mount	Stock Number	Price	Buy
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[#71-453 New](#)



New

12.00 1/1.8" f/1.8 100 - ∞ S-Mount (M12 x 0.5)

Launched
on our
website
before
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in our
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else!

S\$394.80

3 In Stock

[#71-454 New](#)



New

12.00 1/1.8" f/2.8 100 - ∞ S-Mount (M12 x 0.5)

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latest print
catalogs.
Be the
first to buy
before
anyone
else!

S\$394.80

1 In Stock

[#71-455 New](#)

12.00	1/1.8"	f/4.0	100 - ∞	S-Mount (M12 x 0.5)	<p>Launched on our website before appearing in our latest print catalogs. Be the first to buy before anyone else!</p>	S\$394.80	5 In Stock
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[#71-456 New](#)

12.00	1/1.8"	f/5.6	100 - ∞	S-Mount (M12 x 0.5)	<p>Launched on our website before appearing in our latest print catalogs. Be the first to buy before anyone else!</p>	S\$394.80	1 In Stock
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[#71-457 New](#)

12.00	1/1.8"	f/8.0	100 - ∞	S-Mount (M12 x 0.5)	<p>Launched on our website before appearing in our latest print catalogs. Be the first to buy before anyone else!</p>	\$394.80	1 In Stock
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[#71-458 New](#)

12.00	1/1.8"	f/11.0	100 - ∞	S-Mount (M12 x 0.5)	<p>Launched on our website before appearing in our latest print catalogs. Be the first to buy before anyone else!</p>	\$394.80	2 In Stock
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[#71-459 New](#)

12.00	1/1.8"	f/16.0	100 - ∞	S- Mount (M12 x 0.5)	New	Launched on our website before appearing in our latest print catalogs. Be the first to buy before anyone else!	S\$394.80	2 In Stock
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