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Apo-Component

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€1.949^{,00}

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[Spec Sheets](#) [EO Spec Sheet](#)

General

Product Family: Schneider Macro Imaging Lenses

Type: Fixed Focal Length Lens

Physical & Mechanical Properties

Iris Option: Fixed

Length (mm): 48.00

Maximum Diameter (mm): 47.00

Outer Diameter (mm): 46

Optical Properties

Maximum Image Circle (mm): 90.00

Focal Length FL (mm): 90.00

Working Distance (mm): 246 - ∞

Aperture (f/#): f/4.5-f/64

Lens Wavelength Range: VIS

Sensor

Maximum Sensor Format: 90mm (Image Circle)

Pixel Size (µm): 6.20

Threading & Mounting

Filter Thread: M37x0.75

Mount: Adapter Required

Regulatory Compliance

RoHS 2015: [Compliant](#)

Certificate of Conformance: [View](#)

Reach 233: [Compliant](#)

Product Details

- Up to 108mm Image Circle for Line Scan Cameras
- C-Mount, F-Mount, T2-Mount, Pentax-Mount
- Rugged Designs for Short Working Distances
- 28mm to 120mm Focal Length

The Schneider Optics line of Macro Imaging Lenses with image circles up to 108mm allows these lenses to integrate easily with line scan cameras. The ability to produce better contrast at desired resolution and depth of field over a range of magnification while maintaining the highest levels of image quality.

Each lens system consists of 3 main components. First, a lens of desired focal length to meet the specific application is needed. Second, one of three different helical focusing mounts, which allows for fine focusing adjustment of the system needs to be chosen based on sensor size. Next, there are a variety of extension tubes that allow the proper image and object distance to be obtained. The extension tube selection depends on the selected helical focusing mount as well as the desired length. Extension tubes can be combined for custom lengths. Additionally, a specific camera mounting option may be required in order to correctly connect to the desired camera.

The lens options are all fitted with a special V-mount on both sides of the lens that allows adaptation to all 3 sets of focus tubes.

The UniFoc-12 and extension tubes for the Unifoc 12 focusing tube offer this same V-mount. Using these components, the UniFoc-12 system will need to be adapted to the camera with one of the lens adapters listed below.

The UniFoc-58 and UniFoc-76 are threaded focus tubes and require an adapter to mount a V-mount lens. The UniFoc-58 offers an M42x0.75 thread, while the UniFoc-76 offers an M58x0.75 thread. The UniFoc-76 can be used with an adapter for M72x0.75 threads, and increase the tube diameter for large sensors to avoid vignetting. With this adapter, the M72 extension tubes must be used.

Note: Please contact our [Applications Engineering Department](#) if you wish to discuss extension tube lengths and working distance requirements for these lenses

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produce image circles ranging from 30 to 108mm. For short working distances, the macro lenses have the ability to be reversed in order to increase its usable

Technical Information

| Amount Required | Description | Stock No. |
|------------------------------------------|--------------------------------------------------|-----------|
| 1 | Componon f/2.8, 28mm Focal Length | #63-049 |
| | Componon f/2.8, 35mm Focal Length | #63-050 |
| | Componon f/2.8, 50mm Focal Length | #63-051 |
| | Componon f/4.0, 80mm Focal Length | #63-052 |
| | Componon f/5.6, 100mm Focal Length | #63-053 |
| | Apo-Componon f/2.8, 40mm Focal Length | #63-054 |
| | Apo-Componon f/4.0, 45mm Focal Length | #63-055 |
| | Apo-Componon f/4.0, 60mm Focal Length | #63-056 |
| | Apo-Componon f/4.5, 90mm Focal Length | #63-057 |
| 1 | UniFoc-12 for sensors smaller than 30mm, V-Mount | #63-436 |
| | UniFoc-58 for sensors b/w 30mm and 43.3mm, M42 | #63-059 |
| | UniFoc-76 for sensors larger than 43.3mm, M58 | #63-060 |
| 1 (Possibly Required) | Extension Tubes for UniFoc-12: V-mount | |
| | 8mm Extension Tube | #63-061 |
| | 10mm Extension Tube | #63-062 |
| | 25mm Extension Tube | #63-063 |
| | Extension Tubes for UniFoc-58: M42 x 0.75 Mount | |
| | 10mm Extention Tube | #63-064 |
| | 25mm Extention Tube | #63-065 |
| | Extension Tubes for UniFoc-76: M58 Mount | |
| | 10mm Extension Tube | #63-066 |
| | 25mm Extension Tube | #63-067 |
| | M58 to M72 Adapter | #63-437 |
| | M72 10 Extension Tube | #63-438 |
| | M72 25 Extension Tube | #63-439 |
| 1 (Optional for Unifoc-58 and Unifoc-76) | V Mount to C-mount Camera Mount | #63-068 |
| | V Mount to T2 Camera Mount (M42 x 0.75) | #63-069 |
| | V Mount to Pentax Camera Mount (M42 x 1.0) | #63-070 |
| | V Mount to Leica Adapter (M39 x 26 TPI) | #63-071 |

Accessories

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Note: Compatible accessories for in

r products, please contact us [here](#).

| | Title | Compare | Stock Number | | Buy |
|-----------------------|----------------------------------------------------------------|---------|--------------|------------------------------------------|------------------------------|
| MORE+ | Unifoc-58 Focusing Tube for Sensors b/w 30mm and 43.3mm, M42 | | #63-059 | €806,00 Request Quote | CONTACT US 1 |
| MORE+ | Unifoc 12 Focusing Tube for Sensors Smaller than 30mm, V-Mount | | #63-436 | €738,00 Request Quote | CONTACT US 1 |
| MORE+ | Unifoc-76 Focusing Tube for Sensors Larger than 43.3mm, M58 | | #63-060 | €806,00 Request Quote | CONTACT US 1 |
| MORE+ | V-Mount 8mm Extension Tube for Unifoc-12 | | #63-061 | €117,00 Request Quote | CONTACT US 1 |
| MORE+ | V-Mount 10mm Extension Tube for Unifoc-12 | | #63-062 | €117,00 Request Quote | CONTACT US 1 |
| MORE+ | V-Mount 25mm Extension Tube for Unifoc-12 | | #63-063 | €128,00 Request Quote | CONTACT US 1 |
| MORE+ | V-Mount 75mm Extension Tube for Unifoc-12 | | #65-881 | €145,00 Request Quote | CONTACT US 1 |
| MORE+ | M42 10mm Length Extension Tube for Unifoc-58 | | #63-064 | €117,00 Request Quote | CONTACT US 1 |
| MORE+ | M42 25mm Length Extension Tube for Unifoc-58 | | #63-065 | €155,00 Request Quote | CONTACT US 1 |
| MORE+ | M58 10mm Length Extension Tube for Unifoc-76 | | #63-066 | €155,00 Request Quote | CONTACT US 1 |
| MORE+ | M58 25mm Length Extension Tube for Unifoc-76 | | #63-067 | €155,00 Request Quote | CONTACT US 1 |
| MORE+ | V-Mount to C-Mount Camera Mount | | #63-068 | €155,00 Request Quote | CONTACT US 1 |
| MORE+ | V-Mount to M42 x 0.75 (T2) Camera Mount | | #63-069 | €117,00 Request Quote | CONTACT US 1 |
| MORE+ | V-Mount to M42 x 1.0 (Pentax) Camera Mount | | #63-070 | €117,00 Request Quote | CONTACT US 1 |
| MORE+ | V-Mount to M39 x 26 TPI (Leica) Adapter | | #63-071 | €155,00 Request Quote | CONTACT US 1 |
| MORE+ | V-Mount to Nikon F-Mount Camera Mount | | #63-072 | €364,00 Request Quote | CONTACT US 1 |

| | Title | Compare | Stock Number | Price | Buy |
|-----------------------|-------------------------|---------|--------------|------------------------------------------|------------------------------|
| MORE+ | M58 to M72 | | | €128,00 | CONTACT US 1 |
| MORE+ | M72 10mm Ext | | | | CONTACT US 1 |
| MORE+ | M72 25mm Extension Tube | | #63-439 | €155,00 Request Quote | CONTACT US 1 |

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Frequently Purchased Together



#63-056 - Apo-Componon f/4.0, 60mm Focal Length
€1.832,00

Qty



#63-060 - Unifoc-76 Focusing Tube for Sensors Larger than 43.3mm, M58
€806,00

Qty



#63-062 - V-Mount 10mm Extension Tube for Unifoc-12
€117,00

Qty



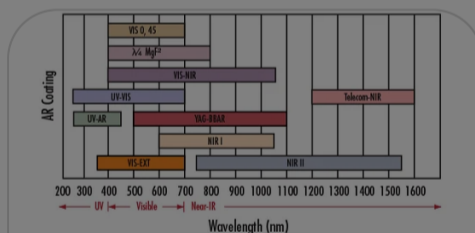
#63-071 - V-Mount to M39 x 26 TPI (Leica) Adapter
€155,00

Qty

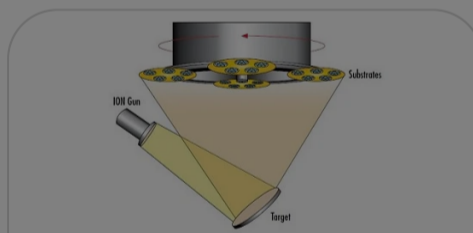
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Media Type

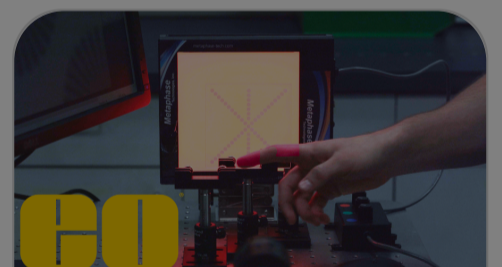
- Application Note
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- Published Article
- FAQ
- Glossary
- Technical Tool



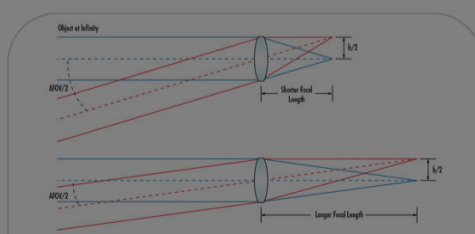
APPLICATION NOTE
Anti-Reflection (AR) Coatings



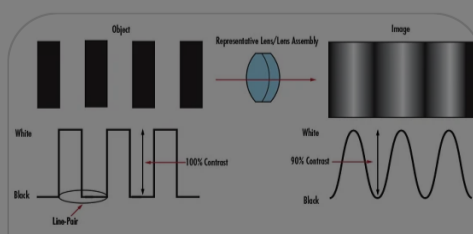
APPLICATION NOTE
An Introduction to Optical Coatings



VIDEO
Wavelength and f#



APPLICATION NOTE
Understanding Focal Length and Field of View



APPLICATION NOTE
Introduction to Modulation Transfer Function



WEBINARS
Choosing the Right Machine Vision Lens

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