

# Macro Varon 4.5/85 with Beamsplitter Preliminary

## MRV 4.5/85 with Beamsplitter

This lens is designed to be used in line scan applications where coaxial illumination is required. The 60 mm beamsplitter cube offers the opportunity to create an in-line illumination for high reflective objects. Coaxial illumination is ideal for demanding circuit boards and other high resolution applications where a bright, diffuse uniform illumination is needed. This lens offers a high optical performance at a 3.5x magnification over the entire field. The lens design considers the optical glass path of the high quality beamsplitter to achieve a top performance. Lens and beamsplitter assembly are precisely aligned to each other, so that a maximum of light is captured and directed to the image plane of 12k cameras with 5µm pixel size, with almost no loss at the image edges



### Key Features

- MAG 3.5x
- Lens and BS Cube
- Optimized for 12K 5µ Cameras
- Separate azimuth alignment of Beamsplitter and Lens

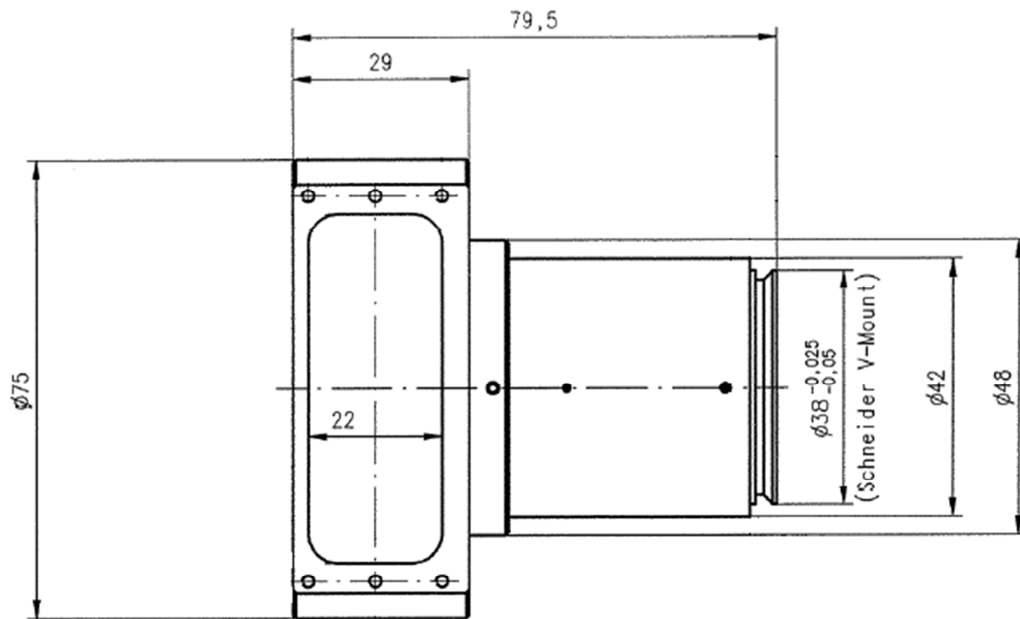
### Applications

- PCB Inspection
- FPD Inspection
- LED inspection
- Flat Glass Inspection
- Wafer Inspection
- Line Scan Applications

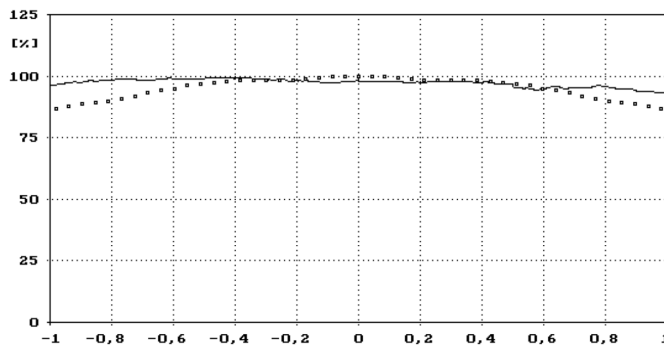
### Technical Specifications

Technical Specifications	
<b>Lens</b>	
Mag	3.5x
f/#	4.5
Focal Length	85.2 mm
Image Circle	62 mm
FoV	17.7 mm
Working Distance	62.1 mm
Mount	V-mount
Dimensions	See Rear Side
Size Beamsplitter Cube	60 x 25 x 25 mm
NA	0.087
Relative Illumination	See Rear Side
Illumination Drop off to the Edges	Max 8%
Item Number	1069837

**Dimensions:**



**Relative Illumination:**



**Contact**

Jos. Schneider Optische Werke GmbH  
 Ringstraße 132  
 55543 Bad Kreuznach  
 Germany  
 Phone +49 671 601-205  
 Fax +49 671 601-181-205  
[www.schneiderkreuznach.com/industrialoptics](http://www.schneiderkreuznach.com/industrialoptics)  
[industrie@schneiderkreuznach.com](mailto:industrie@schneiderkreuznach.com)

Schneider Asia Pacific Ltd.  
 20/F Central Tower, 28 Queen's Road  
 Central, Hong Kong  
 China  
 Phone +852 8302 0301  
 Fax +852 8302 4722  
[www.schneider-asiapacific.com](http://www.schneider-asiapacific.com)  
[info@schneider-asiapacific.com](mailto:info@schneider-asiapacific.com)

Schneider Optics Inc.  
 285 Oser Ave.  
 Hauppauge, NY 11788  
 USA  
 Phone +1 631 761-5000  
 Fax +1 631 761-5090  
[www.schneideroptics.com](http://www.schneideroptics.com)  
[oem@schneideroptics.com](mailto:oem@schneideroptics.com)