

Macro Varon Lens

MACRO VARON 4.5/85-0002

The special lenses Macro Varon and Macro Varon fixed beta designed for the highest requirements of web and surface inspections are the first choice for FPD and PCB inspection systems, for example. These applications require line scan lenses with very high resolution in order to guarantee cost-efficient error detection in manufacturing and the associated quality assurance processes. When using high-resolution cameras, the lens is often the limiting factor for the optimal utilisation of the theoretically possible system performance. These lenses, however, have been specially developed for the use of 12k line scan sensors. In the optical magnification range required these lenses fully exploit all the possibilities of the very latest sensor generation.



MACRO VARON 4.5/85

Key Features

- Robust mechanics for rough industrial environment
- Developed for high-resolution 12k line scan applications with pixel sizes from 3.5 µm
- Focus and iris setting lockable
- High resolution optics 400 - 1000 nm
- Very high optical image quality in the large sensor range
- V-mount connection

Applications

- Web and surface inspections
- Quality control
- FPD inspection
- PCB inspection
- OLED inspection
- Line scan applications

Technical Specifications

F-number	4.5
Focal length	85.1 mm
Image circle	62 mm
Transmission	400 - 1000 nm
Interface	V-Mount
Weight	270 gr.
Option	Other interface on request

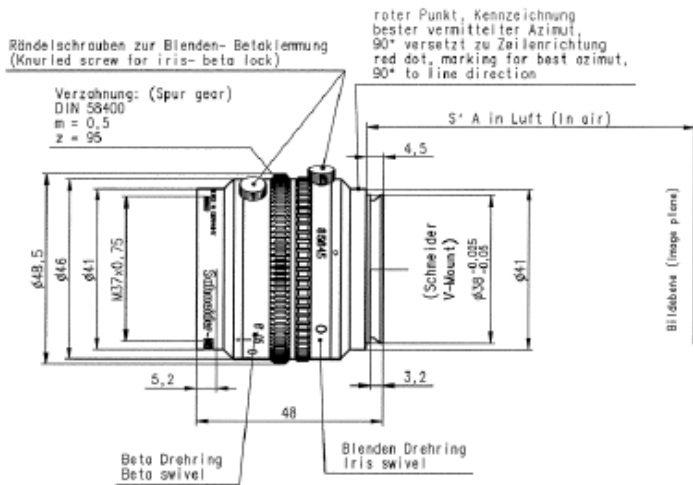
Contact

Jos. Schneider Optische Werke GmbH
 Ringstraße 132
 55543 Bad Kreuznach
 Germany
 Phone +49 671 601-387
 Fax +49 671 601-286
www.schneiderkreuznach.com/industrialoptics
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
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/industrial
industrial@schneideroptics.com

Macro Varon Lens



Pyramid Imaging

945 East 11th Avenue Tampa, FL 33605
 sales@pyramidimaging.com
 www.pyramidimaging.com
 813-786-3785

LENS	FOCAL LENGTH	MAX APERTURE	SENSOR PIXEL SIZE NOMINAL	IMAGE CIRCLE	MAGNIFICATION RANGE	MOUNT TYPE V-MOUNT	FILTER THREAD	WEIGHT	CODE NO.
MRV 4.5/85 - 0001 CAS 0.5X - 2.0	85 mm	F 4.5	5 µm	62 mm	0.5X - 2.0X	V-mount	M 37.0 x 0.75	200 g	1009001

LENS	MAGNIFICATION	DISTORTION	WORKING DISTANCE	OBJECT-TO-IMAGE DISTANCE (00')	FLANGE-TO-IMAGE DISTANCE (s ₀)
MRV 4.5/85 - 0001 CAS 0.5X - 2.0X	0.5X	< 0.2 %	228 mm	378 mm	106 mm
	0.67X	< 0.1 %	186 mm	350 mm	121 mm
	1.0X	0 %	143 mm	335 mm	149 mm
	1.5X	< 0.1 %	114 mm	349 mm	192 mm
	2.0X	< 0.1 %	100 mm	378 mm	237 mm

