

DIAMOND

These high magnification lenses are optimized for 12k/5 μm but can also be used in applications with 16k/3.5 μm line scan sensors and area sensors up to 82 mm diagonal.



DIAMOND	Numerical aperture	Magn.	Mount	Sensor Size (mm)	Type	Size D x L (mm x mm)	Weight (g)	Filter thread	ID
DIAMOND 0.13/2.6x V70	0.13	2.6x	V70	62.5mm	on request	75 x 132.4	1140	M40.5 x 0.5	1078039
DIAMOND 0.12/2.6x V70-BS	0.12	2.6x	V70	62.5mm	with beamsplitter	95 x 157.5	1350	–	1076949
DIAMOND 0.17/3.5x V90	0.17	3.5x	V90	62.5mm	on request	95 x 174	2008	M40.5 x 0.5	1076963
DIAMOND 0.16/3.5x V90-BS	0.16	3.5x	V90	62.5mm	with beamsplitter	95 x 204.5	2260	–	1079718
DIAMOND 0.22/5.2x V70	0.22	5.2x	V70	62.5mm	on request	75 x 142	1030	M58 x 0.75	1079320
DIAMOND 0.22/5.2x V70-BS	0.22	5.2x	V70	62.5mm	with beamsplitter	95 x 168.1	1252	M58 x 0.75	1081873
DIAMOND XL 0.16/3.33x V90-BS	0.16	3.33x	V90	82mm	with beamsplitter	95 x 208.2	1900	–	1098892
DIAMOND XL 0.21/5.0x V70-BS	0.21	5.0x	V70	82mm	with beamsplitter	95 x 168.1	1170	M58 x 0.75	1099014

THE ULTIMATE SOLUTION FOR HIGH MAGNIFICATION 12K & 16K LINE SCAN APPLICATIONS

Key Features:

- Extremely high resolution down to 3.5µm pixel size
- Image circle: 62.5mm to 82mm
- Optimized for specific magnifications
- 5 magnifications available: 2.6x to 5.2x
- Versions with beamsplitter available
- Best azimuth marking
- V-Mount for easy installation

Typical applications:

- Display inspection
- PCB inspection
- Automated optical inspection (AOI)
- Line scan

DIAMOND LENSES FOR THE INDUSTRY

These high magnification lenses are optimized for 12k / 5µm (DIAMOND XL: 16k / 5µm) line scan sensors but can also be used in many applications with 16k / 3.5µm line scan sensors and area sensors up to 82mm diagonal. Optimized for a specific magnification of 2.6x to 5.2x the lenses providing high performance in a compact and robust package. The V70/V90-Mount interface makes it easy to install numerous mounts and allows the rotation of the lens into the best azimuth.

MORE INFORMATION

Discover the variety of our high quality lenses. For more technical details on the lenses and datasheets, please visit our website: www.schneiderkreuznach.com/diamond

