

# SAPPHIRE

High-speed lenses optimized for 16k/3.5  $\mu\text{m}$  & 12k/5  $\mu\text{m}$  line scan sensors. Also suitable for area sensors up to 82 mm diagonal.



<b>SAPPHIRE</b>	Numerical aperture	f' (mm)	Mount	Sensor Size (mm)	Type	Size D x L (mm x mm)	Weight (g)	Filter thread	ID
SAPPHIRE 0.007/0.07x V70	0.007	0.07x	V70	62.5mm	standard	75 x 102.7	735	M52 x 0.75	1068013
SAPPHIRE 0.02/0.23x V70	0.02	0.23x	V70	62.5mm	standard	75 x 98.2	700	M52 x 0.75	1071819
SAPPHIRE 0.03/0.29x V70	0.03	0.29x	V70	62.5mm	standard	75 x 98.3	700	M52 x 0.75	1071818
SAPPHIRE 0.04/0.35x V70	0.04	0.35x	V70	62.5mm	standard	75 x 97.5	830	M52 x 0.75	1068012
SAPPHIRE 0.05/0.5x V70	0.05	0.5x	V70	62.5mm	standard	75 x 100.1	700	M52 x 0.75	1071189
SAPPHIRE 0.06/0.7x V70	0.06	0.7x	V70	62.5mm	standard	75 x 98.3	810	M52 x 0.75	1071190
SAPPHIRE 0.08/0.875x V70	0.08	0.875x	V70	62.5mm	standard	75 x 98.1	720	M52 x 0.75	1076452
SAPPHIRE 0.09/1.143x V70	0.09	1.143x	V70	62.5mm	standard	75 x 150.8	750	M58 x 0.75	1076453
SAPPHIRE 0.10/1.75x V70	0.1	1.75x	V70	62.5mm	standard	75 x 91.5	688	M40.5 x 0.5	1068014
SAPPHIRE 0.10/1.75x V70-BS	0.1	1.75x	V70	62.5mm	with beamsplitter	95 x 122	935	–	1073347
SAPPHIRE XL 0.09/1.43x V70	0.09	1.43x	V70	82mm	standard	75 x 149.8	840	M58 x 0.75	1076096
SAPPHIRE XL 0.10/2.0x V70	0.1	2.0x	V70	82mm	standard	75 x 149	840	M58 x 0.75	1076451

## THE STANDARD FOR 12K & 16K LINE SCAN

### Key Features:

- Extremely high resolution down to 3.5µm pixel size
- Image circle: 62.5mm to 82mm
- Optimized for specific magnifications
- 11 magnifications available: 0.07x to 2.0x
- Version with beamsplitter available
- Best azimuth marking

### Typical applications:

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

## SAPPHIRE LENSES FOR THE INDUSTRY

SAPPHIRE lenses set a new standard in vision technology. Designed specifically for high-resolution applications, they offer an impressive resolution of up to 3.5µ pixel size. These lenses are the perfect solution for those who require the highest image quality and precision. SAPPHIRE lenses are highly adaptable. The high performance lenses are optimized for 16k / 3.5µm and 12k / 5µm (SAPPHIRE XL: 16k / 5µm) line sensors.

With an image circle of 62.5mm to 82mm, they can be used with both line sensors and area sensors up to 82mm diagonal. This means maximum flexibility for your applications. We understand that each application has different requirements. That's why our SAPPHIRE lenses offer 11 different magnification options from 0.07x to 2.0x. So you can choose the perfect magnification for your specific application and get the best possible results. For even more versatility, we offer a beamsplitter version. In addition, the V70-Mount makes it easy to mount and rotate 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/sapphire](http://www.schneiderkreuznach.com/sapphire)

