

This highspeed lens is optimized for 16k with 3.5 μ m (57.3 mm) or 12k / 5 μ m (62.5 mm) line scan sensors or can also be used with area scan cameras. The lens provides high performance at 100 LP/mm and detects the smallest targets to solve the most challenging applications. The V-Mount interface makes it easy to install numerous mounts and allows to rotate the lens into the highest performance.

Key features

- For 16k / 3.5 μ m (57.3 mm) or 12k / 5 μ m (62.5 mm) line scan sensors
- Best azimuth marking
- 400 nm to 1000 nm broadband AR-coating
- Lockable distance and aperture settings

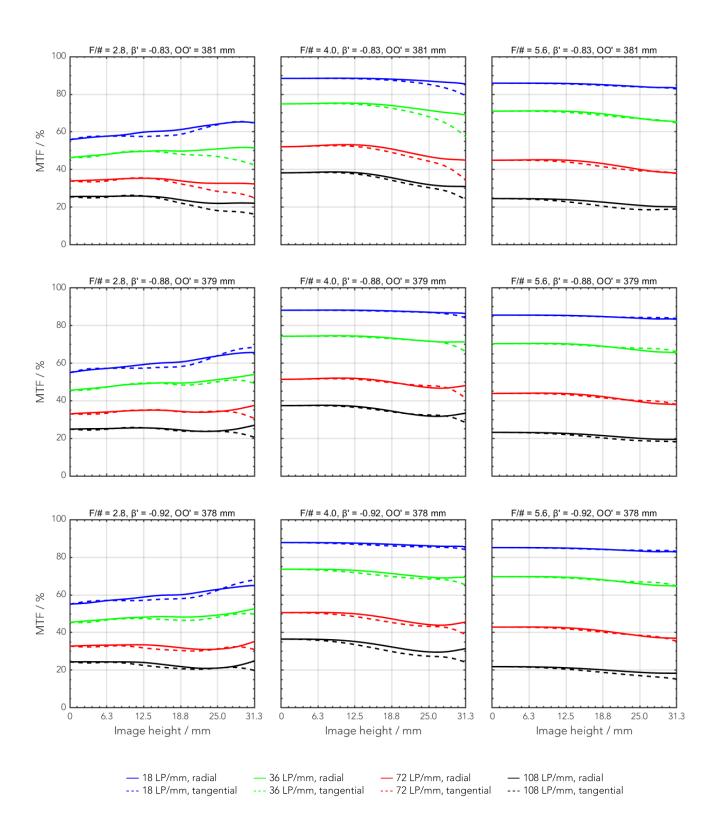
Applications

- FPD inspection
- PCB inspection
- High resolution defect detection
- Quality assurance systems

Technical specifications		
Туре	-0001	
ID	1076452	
Interface	V70-Mount	
Focal length [mm]	98	
F/# range	F/2.8 F/8	
Numerical aperture	0.10	
Max. sensor size [mm]	62.5	
Max. angle of view [°]	19	
Rec. magnification range	-0.875 (-0.920.83)	
Rec. working distance range [mm]	148 159	
Max. mechanical focus travel [mm]	25.7	
Filter thread [mm]	M52 x 0.75	
Storage temperature [°C]	-25 +70	
Net. weight [g]	720	
Additional info	-	
f'eff [mm]	97.50	
SF [mm]	-49.51	
S'F' [mm]	52.28	
HH' [mm]	-13.08	
β'P	1.04	
SEP [mm]	44.54	
S'AP [mm]	-48.79	
Σd [mm]	80.13	

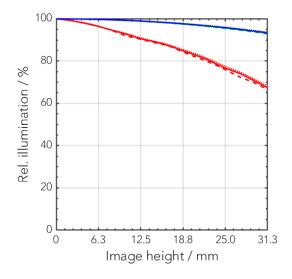


MTF charts						
Spectrum name	VIS					
Wavelengths [nm]	425	475	525	575	625	675
Rel. weights [%]	8	16	23	22	19	13

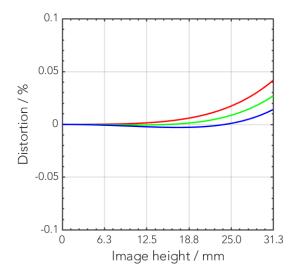




Rel. illumination vs. image height

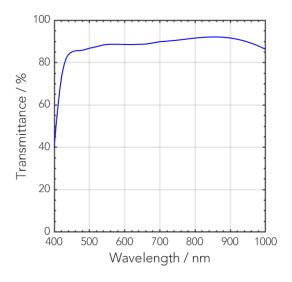


Distortion vs. image height



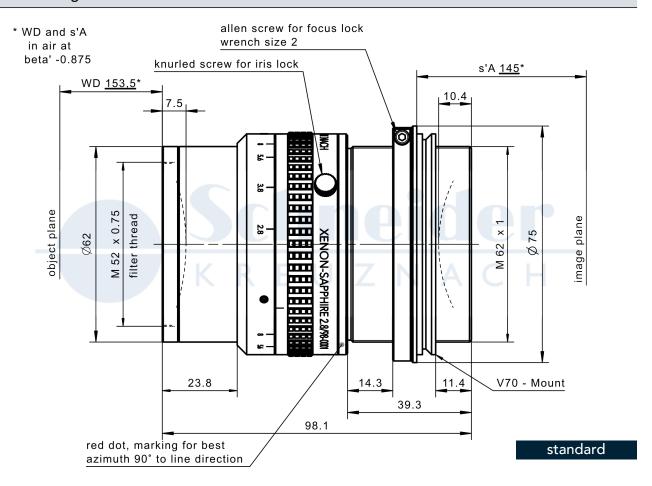


Transmittance vs. wavelength





Technical drawings





Accessories	Mount	Eff. length	ID
Adapter	V70 / M72 x 0.75	10 mm	1072419
Extension tube	M72 x 0.75 / M72 x 0.75	5 mm	1072420
	M72 x 0.75 / M72 x 0.75	10 mm	1072421
	M72 x 0.75 / M72 x 0.75	25 mm	26406
	M72 x 0.75 / M72 x 0.75	50 mm	1054733



Annotation			
Focal length	Nominal focal length		
 F/# range	Image space F-number range for infinity focus position		
Numerical aperture	Maximum real numerical aperture (depending on recommended magnification range either for infinity or respective fixed magnification)		
Max. sensor size	Image circle diameter		
Max. angle of view	Angle of view associated with maximum sensor size (depending on recommended magnification range either for infinity or respective fixed magnification)		
Rec. magnification range	Magnification range as recommended by Schneider-Kreuznach		
Rec. working distance range	Working distance, i.e. distance between object and first mechanical element, associated with recommended magnification range		
Max. mechanical focus travel	Maximum possible movement of the lens from infinity position (depending on recommended magnification range either for infinity or respective fixed magnification)		
Net weight	weight of unpacked lens without lens cap		
f'eff	Effective focal length		
SF	Distance between vertex of first lens surface and object space focal point		
S'F'	Distance between vertex of last lens surface and image space focal point (back focal distance at infinity)		
HH'	Distance between principal planes		
 β'P	Pupil magnification (= exit pupil diameter / entrance pupil diameter)		
SEP	Distance between vertex of first lens surface and entrance pupil		
S'AP	Distance between vertex of last lens surface and exit pupil		
Σ d	Distance between vertices of first and last lens surface		
s'A	Flange focal distance (in air) for infinite object distance (depending on recommended magnification range either for infinity or respective fixed magnification)		
ß'	Magnification (= image size / object size), negative value because image is inverted		
00'	Distance between object and image		

Unless otherwise stated all dimensions in this data sheet are in mm.



Headquarters Europe

Jos. Schneider Optische Werke GmbH

Ringstraße 132

55543 Bad Kreuznach

+49 671 601 205

☑ cs@schneiderkreuznach.com

www.schneiderkreuznach.com

Offices Worldwide

America

@ +1 800 228 1254 (West Coast)

☑ info@schneideroptics.com

Asia

☑ info@schneider-asiapacific.com