This high resolution 2/3" C-Mount lens is compact and robust and therefore ideal for demanding imaging applications. A precise fixation of the individual lens elements stabilizes the optical axis for demanding measurment applications. With the special broadband AR coating it can be used in the visible 400 to 700 nm and in the NIR 700 to 1000 nm range.

Key features

- Compact and robust design
- Stabilized optical axis
- 11 mm image circle
- 400-1000nm AR coating

Applications

- 2D/3D metrology
- Robotics vision
- Industrial automation
- Traffic and surveillance

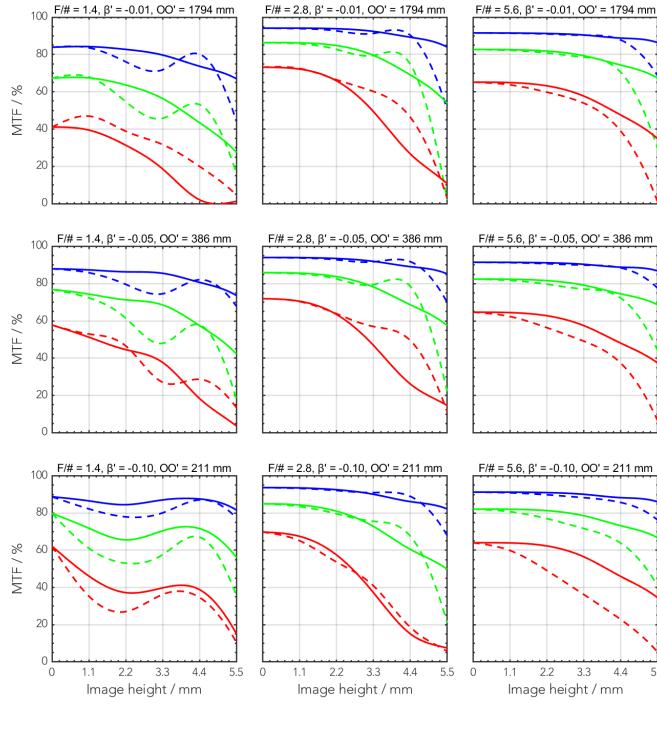
Technical specifications	
Type [stabilized]	C-S
ID [stabilized]	1070117
Interface	C-Mount
Focal length [mm]	17
F/# range	F/1.4 F/11
Numerical aperture [object image]	- 0.33
Max. sensor size [mm]	11
Max. angle of view [°]	36
Rec. magnification range	-0.1 0
Rec. working distance range [mm]	
Min. working distance without extension tubes [mm]	44
Filter thread [mm]	M30.5 × 0.5
Storage temperature [°C]	-25 +70
Net. weight [standard] [g]	85
Additional info	-
f'eff [mm]	17.57
SF [mm]	-6.15
S'F' [mm]	13.16
HH' [mm]	-3.20
β'P	2.98
SEP [mm]	12.05
S'AP [mm]	-39.16
Σd [mm]	24.93

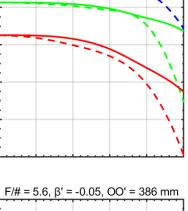
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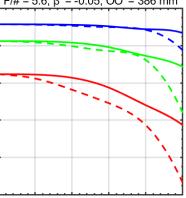


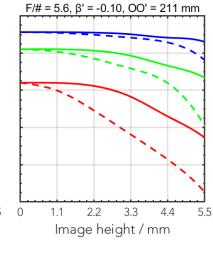
MTF charts

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







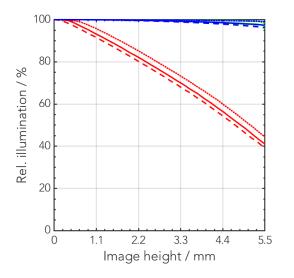


– 20 LP/mm, radial 40 LP/mm, radial 80 LP/mm, radial --- 20 LP/mm, tangential --- 40 LP/mm, tangential --- 80 LP/mm, tangential

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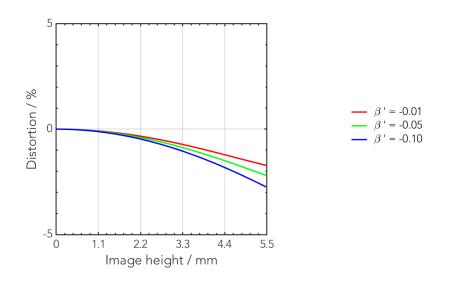


Rel. illumination vs. image height

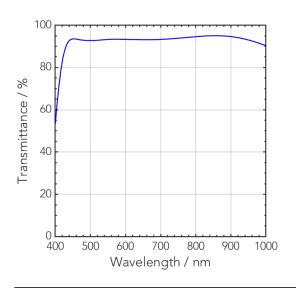


 F/# = 1.4, F/# = 2.8, F/# = 5.6, F/# = 1.4, F/# = 2.8, F/# = 5.6, F/# = 1.4.	$\beta = -0.01$ $\beta = -0.01$ $\beta = -0.05$ $\beta = -0.05$ $\beta = -0.05$
 F/# = 1.4, F/# = 2.8, F/# = 5.6,	eta = -0.10 eta = -0.10

Distortion vs. image height



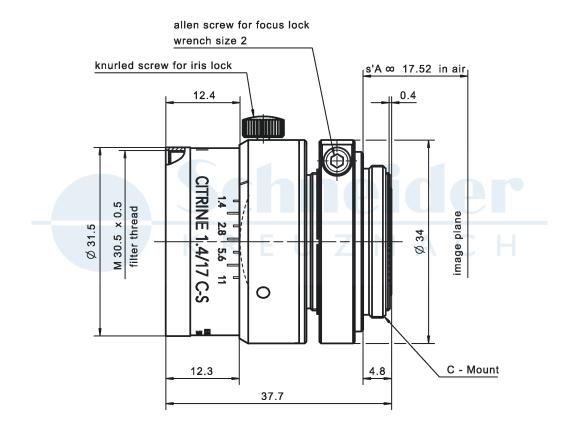
Transmittance vs. wavelength



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Technical drawings





Accessories	Mount	Eff. length	ID
Adapter	CS-Mount	5 mm	25081
	C-Mount / M42 x 1	5.5 mm	1075817
Extension tube	C-Mount / C-Mount	5 mm	39316
	C-Mount / C-Mount	8 mm	39315
	C-Mount / C-Mount	10 mm	39312



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
ß'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
Σd	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

+1 800 645 7239 (East Coast)

+1 800 228 1254 (West Coast)

☑ info@schneideroptics.com

Asia

☑ info@schneider-asiapacific.com