Optimized for working distances from 0.3m to infinity this compact and robust wide angle 1.1" C-Mount lens is the perfect choice for demanding short and long distance applications even in harsh environment. 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

- For sensors up to 1.2"
- Compact and robust design
- Optimized for WD 0.3m to infinity
- Extreme wide angle of view

#### Applications

- Traffic
- Surveillance
- Long distance imaging
- Wide angle imaging

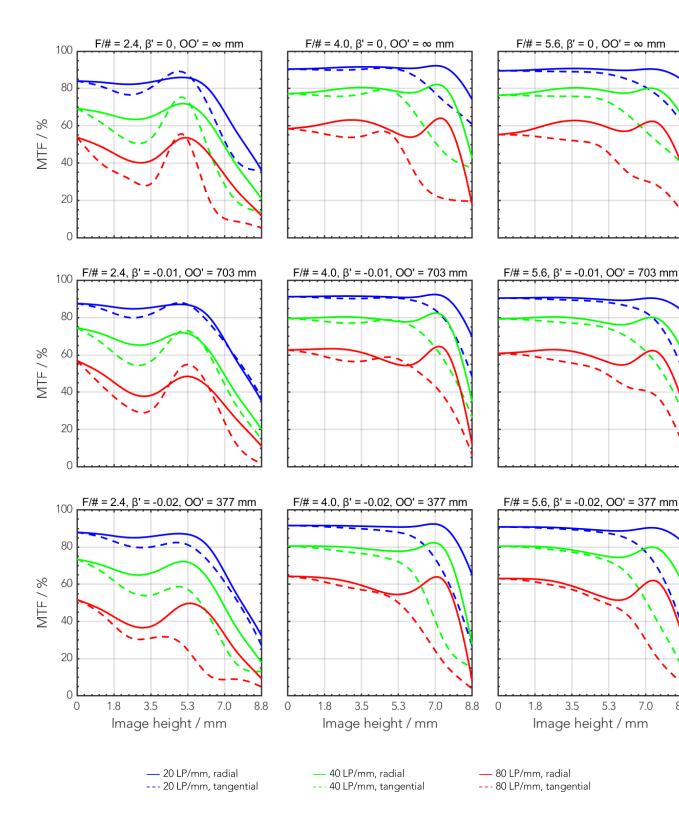
Technical specifications	
Type [standard]	С
ID [standard]	1088899
Interface	C-Mount
Focal length [mm]	6.5
F/# range	F/2.4 F/16
Numerical aperture [object   image]	-   0.20
Max. sensor size [mm]	17.6
Max. angle of view [°]	114
Rec. magnification range	-0.1 0
Rec. working distance range [mm]	51 ∞
Min. working distance without extension tubes [mm]	0
Filter thread [mm]	M82 x 0.75 (with additional filter holder)
Storage temperature [°C]	-25 +70
Net. weight [standard] [g]	165
Additional info	-
f'eff [mm]	6.49
SF [mm]	-13.74
S'F' [mm]	11.24
HH' [mm]	38.64
β'P	4.19
SEP [mm]	15.28
S'AP [mm]	-15.95
Σd [mm]	54.11

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### MTF charts

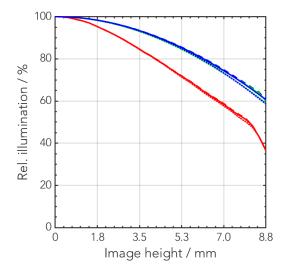
Spectrum name			V	IS		
Wavelengths [nm]	425	475	525	575	625	675
Rel. weights [%]	8	16	23	22	19	13



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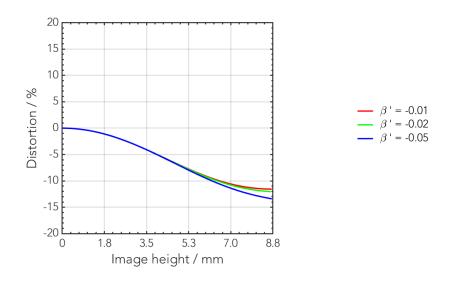


### Rel. illumination vs. image height

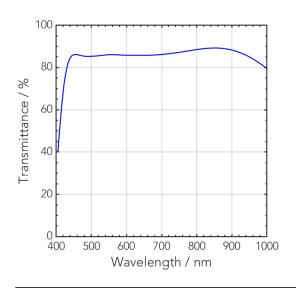


 F/# = 2.4,	$\beta$ = -0.01
 F/# = 4.0,	$\beta$ = -0.01
 F/# = 5.6,	$\beta$ = -0.01
 F/# = 2.4,	$\beta = -0.02$
 F/# = 4.0,	$\beta$ = -0.02
 F/# = 5.6,	$\beta$ = -0.02
 F/# = 2.4,	$\beta$ = -0.05
 F/# = 4.0,	$\beta$ = -0.05
 F/# = 5.6,	$\beta$ = -0.05

#### Distortion vs. image height



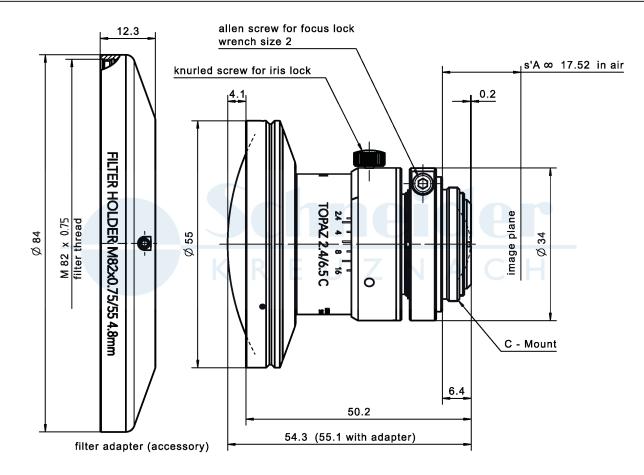
#### Transmittance vs. wavelength



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### **Technical drawings**



Accessories	Mount	Eff. length	ID
Adapter	CS-Mount	5 mm	25081
	C-Mount / M42x1	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
Filter holder	M82x0.75		1078041



### 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)	
β'	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.