

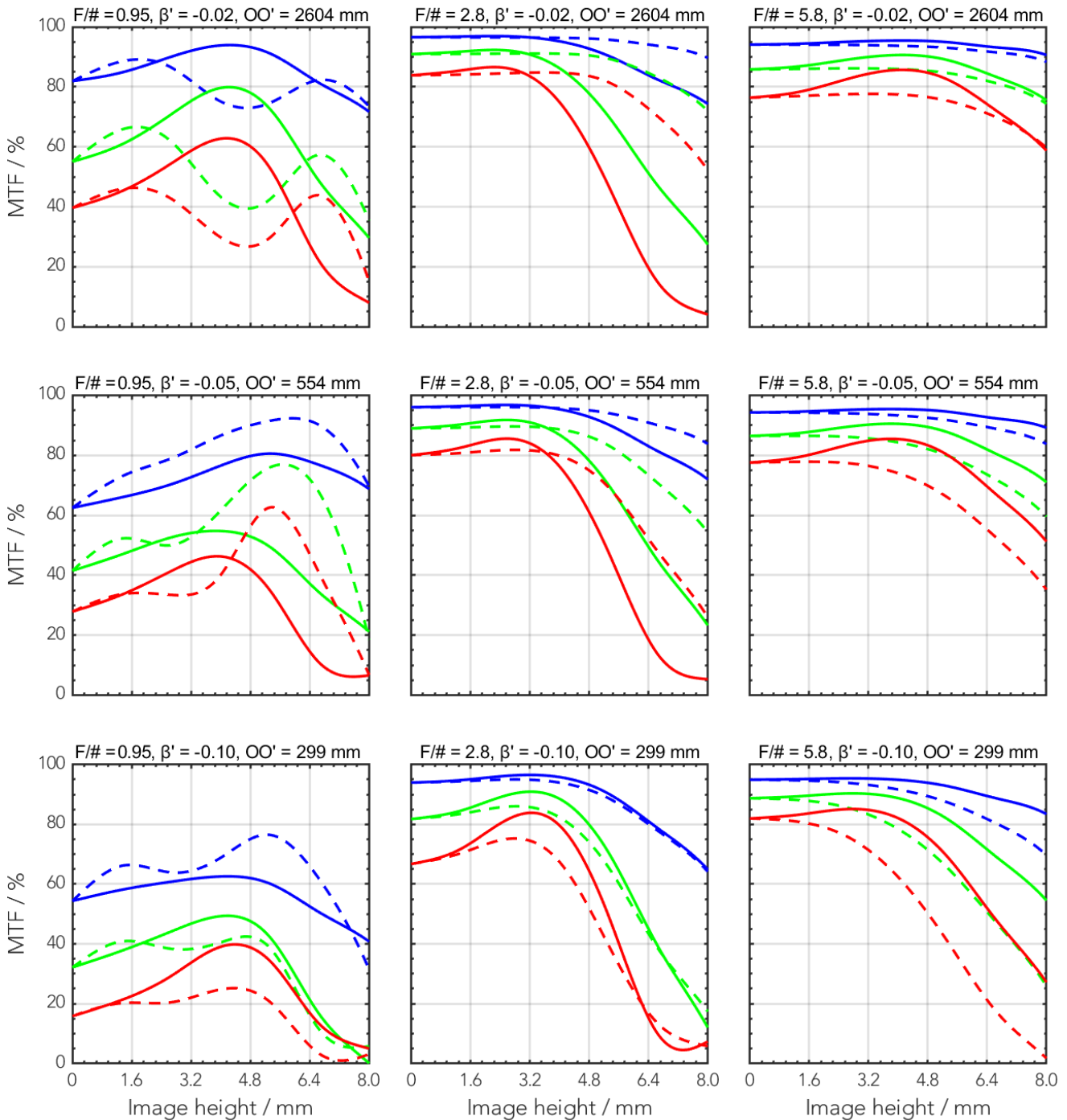
This extremely fast 1" C-Mount lens with F0.95 maximum aperture is optimized for demanding low light imaging applications. With its robust mechanical design and fixing screws for both focus and iris it is usable even in harsh environment.

Key features	Applications
<ul style="list-style-type: none"> <li>• Very large aperture F0.95</li> <li>• 16mm image circle</li> <li>• Robust mechanics</li> <li>• Focus and iris locking screws</li> </ul>	<ul style="list-style-type: none"> <li>• Bioluminescence</li> <li>• Fluorescence</li> <li>• High speed imaging</li> <li>• Low light applications</li> </ul>

Technical specifications	
Type [standard]	C
ID [standard]	12101
Interface	C-Mount
Focal length [mm]	25
F/# range	F/0.95 ... F/11
Numerical aperture [object   image]	-   0.5
Max. sensor size [mm]	16
Max. angle of view [°]	35
Rec. magnification range	-0.1 ... 0
Rec. working distance range [mm]	234 ... ∞
Min. working distance without extension tubes [mm]	133
Filter thread [mm]	M39 x 0.5
Storage temperature [°C]	-25 ... +70
Net. weight [standard] [g]	240
Additional info	-
f'eff [mm]	25.63
SF [mm]	16.89
S'F' [mm]	16.24
HH' [mm]	-10.51
β'P	4.10
SEP [mm]	23.15
S'AP [mm]	-88.72
Σd [mm]	41.40

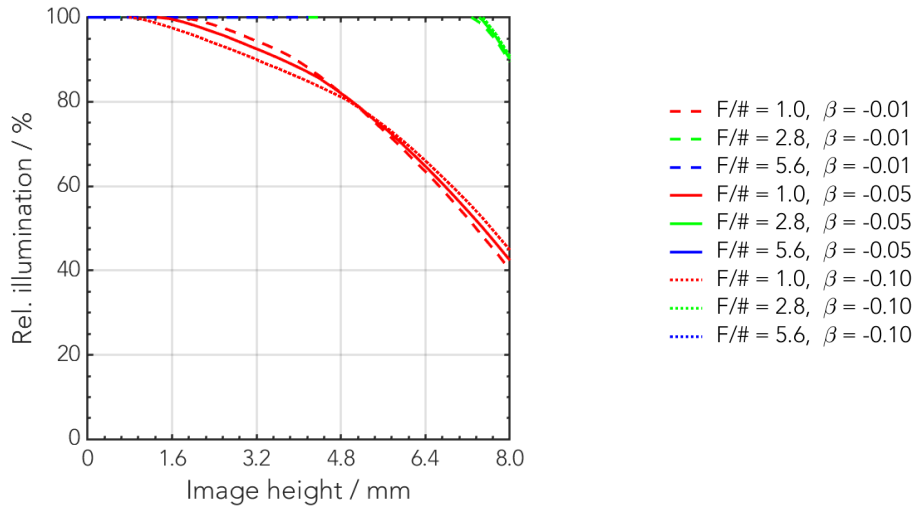
## MTF charts

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

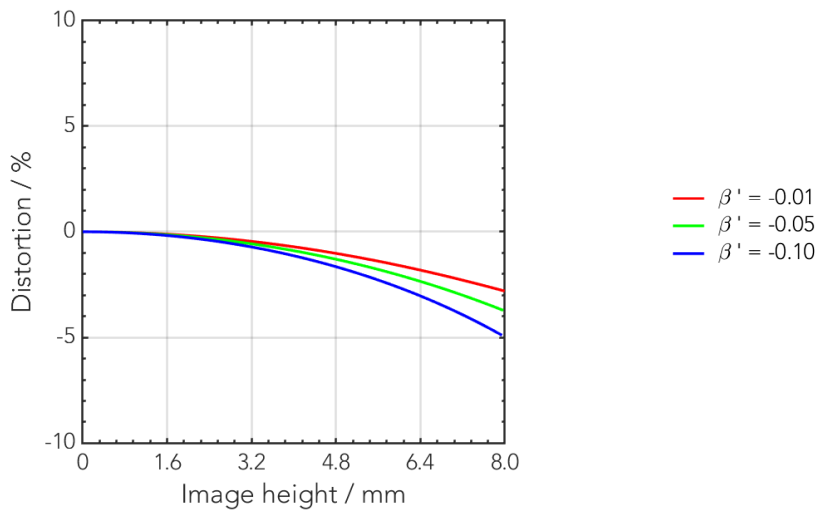


— 10 LP/mm, radial    
 — 20 LP/mm, radial    
 — 40 LP/mm, radial  
- - - 10 LP/mm, tangential    
- - - 20 LP/mm, tangential    
- - - 40 LP/mm, tangential

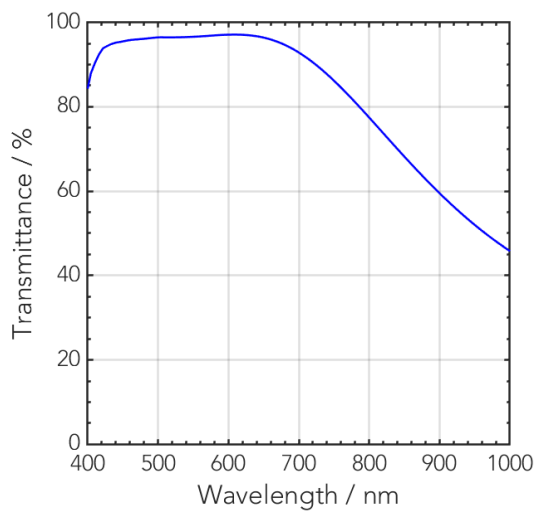
## Rel. illumination vs. image height

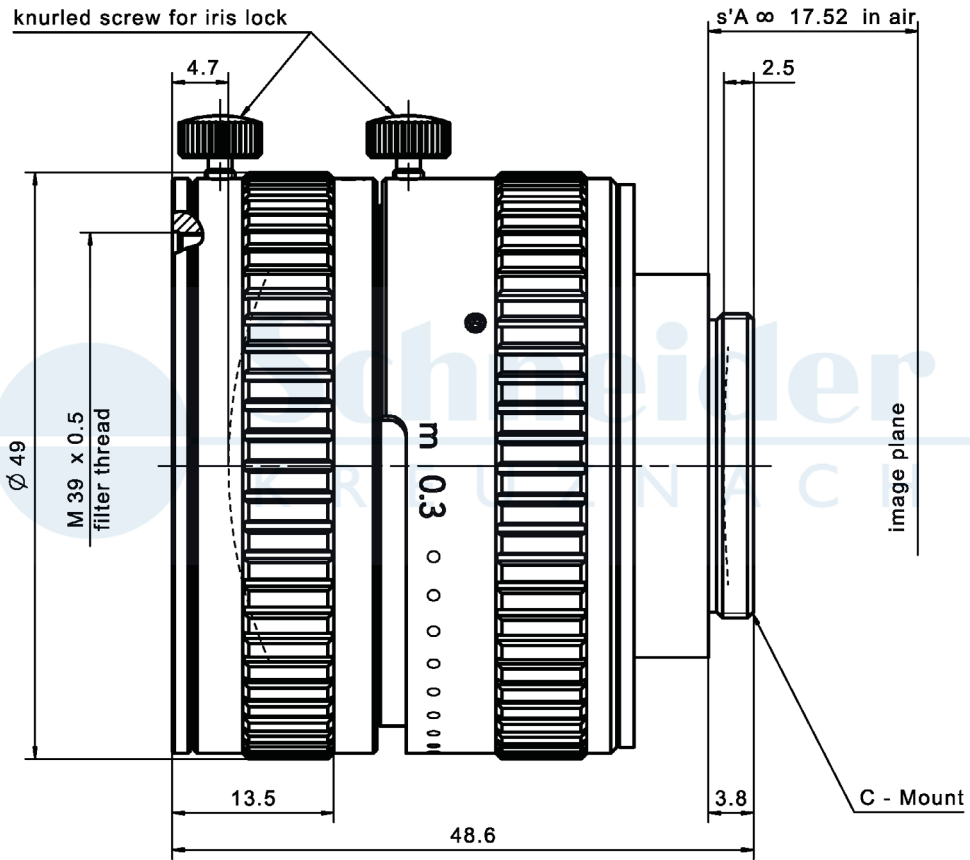


## Distortion vs. image height



## Transmittance vs. wavelength





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

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
$f'_{\text{eff}}$	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
$\beta'P$	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
$\Sigma d$	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)
$\beta'$	Magnification (= image size / object size), negative value because image is inverted
OO'	Distance between object and image

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