
vicotar® Telecentric Lens - T107/0.83

Short description:	Telecentric Lens, C-mount, Sensor max. 1.2", variable aperture, W/NIR
Order number:	2-05-287 This product is being replaced!
EAN:	4251692620250
Actual Notice:	Termination to 30.06.2023.



Characteristics

- telecentric measurement objective with object-sided telecentric beam path
 - high-quality imaging
 - color-optimized and bright
 - adjustable aperture, arrestable
 - robust industrial design
-

Technical data

Image scale	0.832
Spectral range	380 nm - 900 nm
Working distance	100.0 mm
Camera distance (object-camera flange)	293.8 mm
Object field diagonal (max)	25.6 mm
Sensor format (max)	1.2"
Image field diagonal (max)	21.5 mm
Suitable for camera resolution	18.9 MPixel
Recommended pixel size	3.45 µm
Aperture	variable
Lens mount	C-Mount
Filter thread, object-side	M39 x 0.5 (depth 2.1 mm)
Weight	332 g
Usable object field with:	
• Sensor type 4/3 (17.3 x 13.0 mm ²)	20.8 mm x 15.6 mm
• 1" sensor (12.8 x 9.6 mm ²)	15.4 mm x 11.5 mm
• 2/3" sensor (8.8 x 6.6 mm ²)	10.6 mm x 7.9 mm

Can be combined with

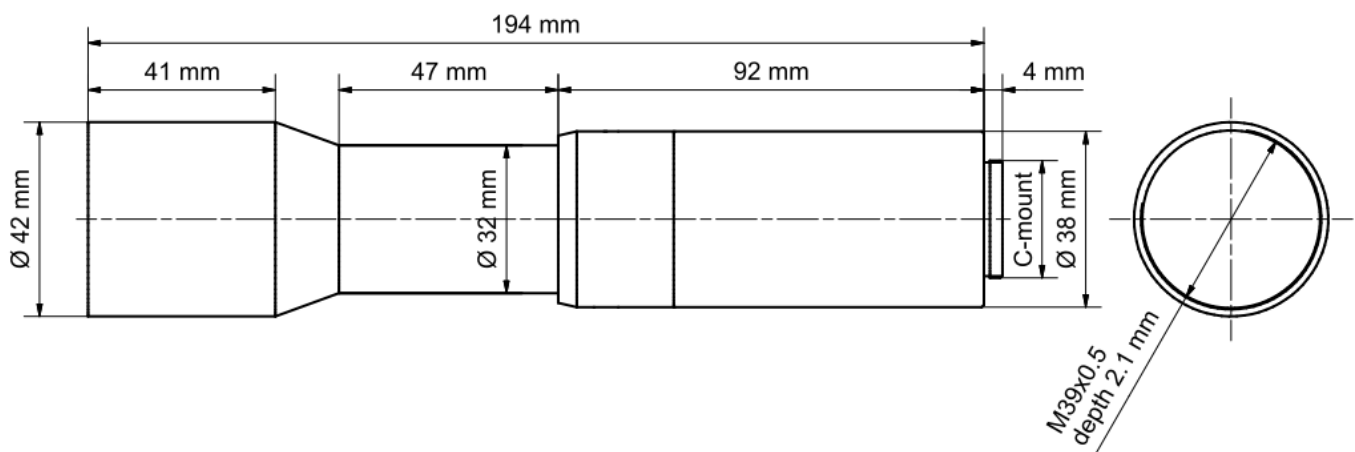
Order number	Title	Description
Beam splitter STE30x30		
1-18-050	STE30x30-VIS	Beam splitter unit for coaxial light system, optimized for 450-700 nm
1-18-025	Adapter STE30x30 - TZO42	Attachment of the STE30x30 to telecentric lenses and lightings with d = 42 mm

Accessories for Telecentric Lenses - T107/0.83

Order number	Title	Description
Lens mount		
2-90-122	Lens Holder d32	Holder for telecentric lenses and lightings with d = 32 mm
Extension tubes		
2-90-415	Extension ring 0.5 mm	26 x 31 x 0.5 reduces the minimum object distance (MOD)
2-90-416	Extension ring 1.0 mm	26 x 31 x 1.0 reduces the minimum object distance (MOD)
Lens adapter c-mount		
2-90-414	CS to C-mount adapter 5.0 mm	for connecting C-mount lenses with CS-mount cameras, length: 5 mm
Neutral density filter		
2-91-160	ND filter 1.2 M39x0.5	optical density 1.2 - 6.3% transmission, f-stop reduction 4, filter thread M39x0.5
2-91-150	ND filter 0.6 M39x0.5	optical density 0.6 - 25% transmission, f-stop reduction 2, filter thread M39x0.5
Daylight blocking filter		
2-91-131	IR filter M20.5x0.5	long-pass filter from 830 nm, daylight absorbing filter, filter thread M20.5x0.5
2-91-130	IR filter M39x0.5	long-pass filter from 830 nm, daylight absorbing filter, filter thread M39x0.5
Polarising filters		

Order number	Title	Description
2-91-140	Pole filter M39x0.5	linear polarizing filter, range 420 nm - 780 nm, filter thread M39x0.5
Colour filter blue		
2-91-287	Colour filter blue M39x0.5	band-pass filter, range 350 nm - 600 nm, filter thread M39x0.5
UV Cut-Off Filter		
2-91-120	UV blocking filter M39x0.5	long-pass filter from 350 nm, usable as protective glass, filter thread M39x0.5
Colour filter red		
2-91-259	Colour filter red M20.5x0.5	long-pass filter from 630 nm, red, filter thread M20.5x0.5
2-91-261	Colour filter red M39x0.5	long-pass filter from 630 nm, red, filter thread M39x0.5
Colour filter green		
2-91-300	Colour filter green M39x0.5	band-pass filter, range 430 nm - 620 nm, filter thread M39x0.5
Colour filter yellow		
2-91-274	Colour filter yellow M39x0.5	long-pass filter from 530 nm, yellow, filter thread M39x0.5
Deflection mirror 90° series		
2-25-114	Deflection mirror 90-42	90° deflection, attachment for telecentric lenses and lightings with d = 42 mm
Adapters for attaching lights to lenses		
1-29-674	Adapter ring d41 - M39x0.5	for R-CLR-69x41 and RK2036, for attachment to lenses with filter thread M39x0.5
1-29-771	Adapter ring d73 - M39x0.5	for R-CLR-100x73 und RK3652, for attachment to lenses with filter thread M39x0.5
Beam splitter STE30x30		
1-18-025	Adapter STE30x30 - TZO42	Attachment of the STE30x30 to telecentric lenses and lightings with d = 42 mm

Drawings



Dimensional drawing in mm