

vicotar[®] Telecentric Lens - TO92/12.0-212-V-WN-LD

Short description: Telecentric measuring lens, c-mount, sensor opt. 2/3", variable aperture, VIS/NIR, LD

Order number: 2-05-396



Characteristics

- telecentric measurement objective with object-sided telecentric beam path
 - long working distance
 - usable for the visible spectral range and near infrared
 - Optimum results with monochromatic applications
 - adjustable aperture, arrestable
 - robust industrial design
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Technical data

Image scale	0.192
Spectral range	380 nm - 900 nm
Working distance	287 mm
Camera distance (object-camera flange)	534.9 mm
Object field diagonal (max.)	46.8 mm
Sensor format (opt.)	2/3"
Image field diagonal (max.)	11.5 mm
Suitable for camera resolution	4.9 MPixel
Recommended pixel size	3.45 μ m
Aperture	variable
Depth of focus	57 mm (F10, 470 nm, MTF = 20 % @ 20 LP/mm)
Lens mount	C-Mount
Filter thread, object-side	M67 x 0.75
Filter thread, camera-side	M20.5 x 0.5
Weight	1040 g
Usable object field with:	
• 1" sensor (12.8 x 9.6 mm ²)	73.3 mm x 55.0 mm
• 2/3" sensor (8.8 x 6.6 mm ²)	67.2 mm x 50.4 mm
• 1/1.8" sensor (7.1 x 5.4 mm ²)	54.2 mm x 41.2 mm
• 1/2" sensor (6.4 x 4.8 mm ²)	48.9 mm x 36.6 mm

Notices

The illumination combinations shown are a selection. Depending on the application, other colors and light source types can also be used.

Can be combined with

Order number	Title	Description
<i>TZB95-UDC-a Serie</i>		
1-10-951	TZB95-B470/UDC/-a	telecentric light, blue, If diameter: 95 mm, flashable by flash controller
1-10-952	TZB95-W5K7/UDC/-a	telecentric light, white, If diameter: 95 mm, flashable by flash controller
1-10-953	TZB95-IR880/UDC/-a	telecentric light, IR850, If diameter: 95 mm, flashable by flash controller
1-10-950	TZB95-R625/UDC/-a	telecentric light, red, If diameter: 95 mm, flashable by flash controller
1-10-954	TZB95-G525/UDC/-a	telecentric light, green, If diameter: 95 mm, flashable by flash controller
<i>TZB95 series</i>		
1-10-383	TZB95-B470-24V	telecentric light, blue, If diameter: 95 mm, static, cable open-ended
1-10-382	TZB95-W5K7-24V	telecentric light, white, If diameter: 95 mm, static, cable open-ended
1-10-381	TZB95-IR880-24V	telecentric light, IR850, If diameter: 95 mm, static, cable open-ended
1-10-380	TZB95-R625-24V	telecentric light, red, If diameter: 95 mm, static, cable open-ended
1-10-384	TZB95-G525-24V	telecentric light, green, If diameter: 95 mm, static, cable open-ended
<i>Beam splitter STE60x60</i>		
1-20-050	STE60x60-VIS	Beam splitter unit for coaxial light system, optimized for 450-700 nm
1-20-023	Adapter STE60x60 - TZO106	Attachment of the STE60x60 to telecentric lenses and lightings with d = 106mm

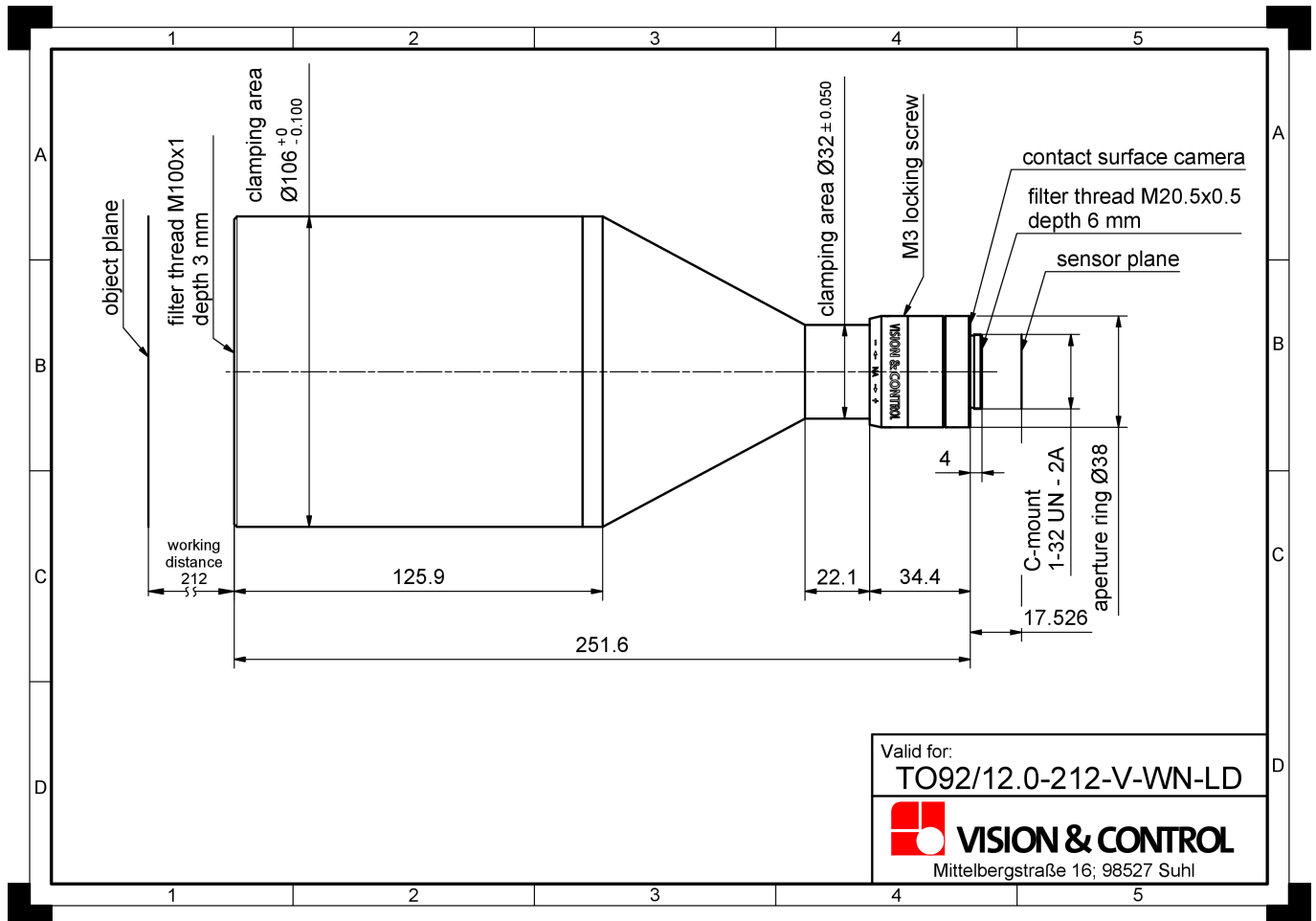
Accessories for Telecentric Lenses - T092/12.0-212-V-WN-LD

Order number	Title	Description
<i>Lens mount</i>		

Order number	Title	Description
2-90-129	Lens Holder d32-60	Holder for telecentric lenses and lightings with $d = 32$ mm, with 60 mm extn.
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)
Thread adapter c-mount		
5-00-011	Thread adapter C-Mount-M42	Adapter for mounting of lenses with C-mount on cameras with M42x1 mount
2-90-414	CS to C-mount adapter 5.0 mm	for connecting C-mount lenses with CS-mount cameras, length: 5 mm
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
2-91-136	IR filter M100x1	long-pass filter from 830 nm, daylight absorbing filter, filter thread M100x1
Colour filter blue		
2-91-292	Colour filter blue M100x1	band-pass filter, range 350 nm - 600 nm, filter thread M100x1
UV Cut-Off Filter		
2-91-209	UV blocking filter M100x1	long-pass filter from 350 nm, usable as protective glass, filter thread M100x1
Colour filter red		
2-91-259	Colour filter red M20.5x0.5	long-pass filter from 630 nm, red, filter thread M20.5x0.5
2-91-264	Colour filter red M100x1	long-pass filter from 630 nm, red, filter thread M100x1
Colour filter green		
2-91-305	Colour filter green M100x1	band-pass filter, range 430 nm - 620 nm, filter thread M100x1
Adapters for attaching lights to lenses		

Order number	Title	Description
1-29-774	Adapter ring d73 - M100x1	for R-CLR-100x73 und RK3652, for attachment to lenses with filter thread M100x1
1-29-872	Adapter ring d104 - M100x1	for R-CLR-132x104 and RK5268, for attachment to lenses with filter thread M100x1
Beam splitter STE60x60		
1-20-023	Adapter STE60x60 - TZO106	Attachment of the STE60x60 to telecentric lenses and lightings with $d = 106\text{mm}$

Drawings



Dimensional drawing in mm