
vicotar[®] Telecentric Lens - TO88/15.4-202-V-LD

Short description: Telecentric lens, c-mount, sensor opt. 1",
variable aperture, VIS/NIR, LD

Order number: 2-05-392



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	0.174
Spectral range	400 nm - 950 nm
Working distance	202 mm
Camera distance (object-camera flange)	463 mm
Object field diagonal (max.)	88 mm
Sensor format (opt.)	1"
Image field diagonal (max.)	15.4 mm
Suitable for camera resolution	10.3 MPixel
Recommended pixel size	3.45 μ m
Aperture	variable (F6 - F22)
Depth of focus	16 mm (F16, 470 nm, MTF = 20 % @ 50 LP/mm)
Lens mount	C-Mount
Filter thread, object-side	M100 x 1
Filter thread, camera-side	M20.5 x 0.5
Weight	1600 g
Usable object field with:	
• 1" sensor (12.8 x 9.6 mm ²)	73.6 mm x 55.2 mm
• 2/3" sensor (8.8 x 6.6 mm ²)	50.6 mm x 37.9 mm
• 1/1.8" sensor (7.1 x 5.4 mm ²)	40.8 mm x 31 mm
• 1/2" sensor (6.4 x 4.8 mm ²)	36.8 mm x 27.6 mm

Notices

The lightings combination products 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>R-CLR-100-SL series</i>		
1-33-012	R-CLR-100x73-B470-SL	ring light, blue, coaxial, If diameter: 73/100 mm, smart light technology
<i>RK3652-24V series</i>		
1-29-702	RK3652-B470-24V/C	ring light, blue, coaxial, If diameter: 73/100 mm, controlled, pot.: 0-10V,
<i>R-CLR-132-SL series</i>		
1-33-017	R-CLR-132x104-B470-SL	ring light, blue, coaxial, If diameter: 104/132 mm, smart light technology
<i>RK5268-24V series</i>		

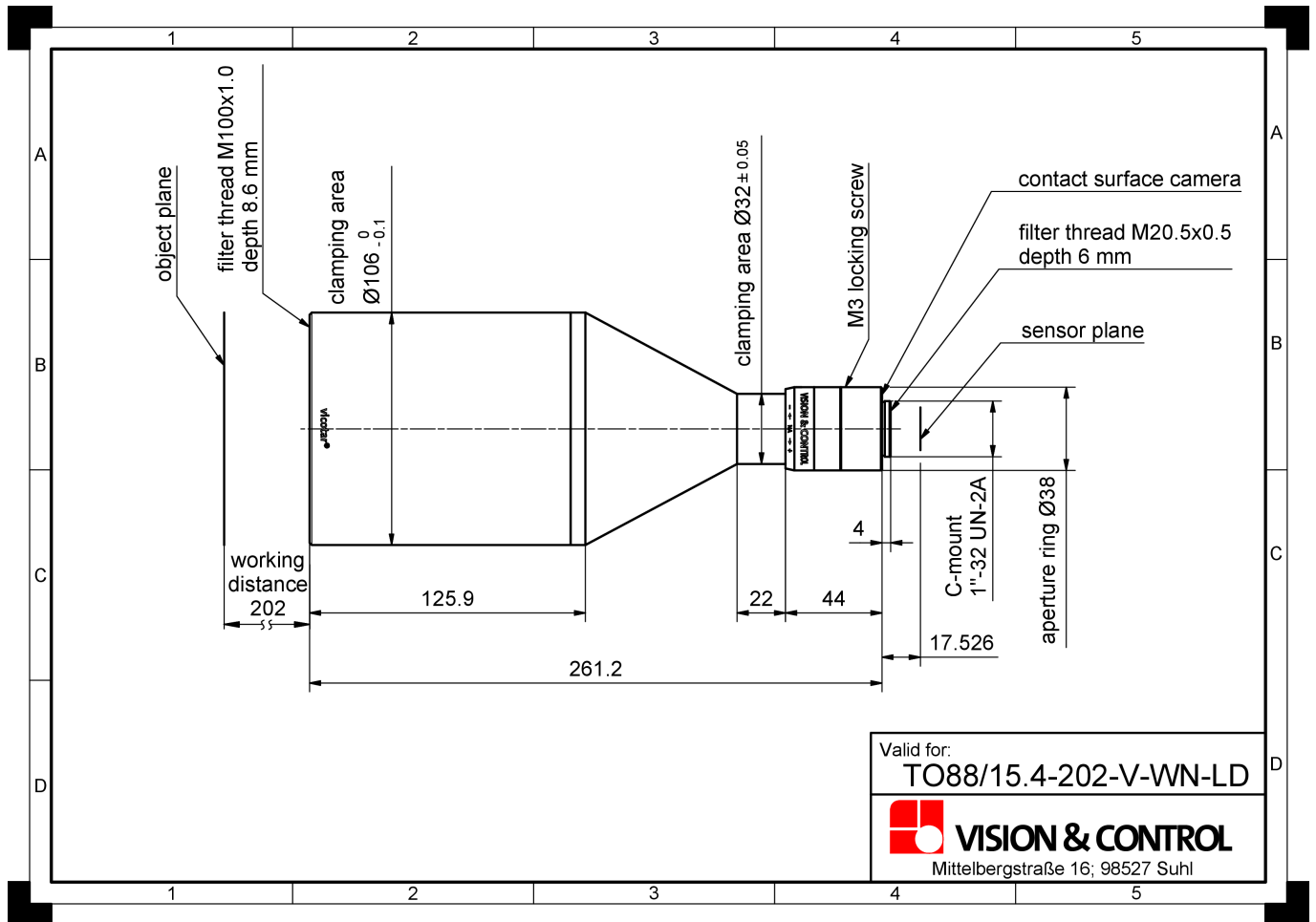
Order number	Title	Description
1-29-802	RK5268-B470-24V/C	ring light, blue, coaxial, If diameter: 104/132 mm, controlled, pot.: 0-10V,

Accessories for Telecentric Lenses - T088/15.4-202-V-LD

Order number	Title	Description
Adjustment Aids		
5-10-112	Adjustment aid 10	for easy adjustment to 10 mm depth of field, for image scale 0.5 - 0.2
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)
2-90-419	Extension ring 0.1 mm	25.5 x 29 x 0.1 reduces the minimum object distance (MOD)
2-90-420	Extension ring 0.2 mm	25.5 x 29 x 0.2 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
Polarising filters		

Order number	Title	Description
2-91-148	Pole filter M105x1	linear polarizing filter, range 420 nm - 780 nm, filter thread M105x1
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
Colour filter yellow		
2-91-281	Colour filter yellow M100x1	long-pass filter from 530 nm, yellow, filter thread M100x1
Filter adapter		
2-91-338	Filter adapter M100-M105	step-up ring for use of a M105x1 filter on a M100x1 filter thread
Adapters for attaching lights to lenses		
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		
1-20-050	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

Drawings



Dimensional drawing in mm