
vicotar[®] Telecentric Lens - TO125/16.5-205-V-WN-LD

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

Order number: 2-05-399



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	0.131
Spectral range	380 nm - 900 nm
Working distance	205.0 mm
Camera distance (object-camera flange)	597.0 mm
Object field diagonal (max.)	122 mm
Sensor format (opt.)	1"
Image field diagonal (max.)	16.5 mm
Suitable for camera resolution	19.7 MPixel
Recommended pixel size	2.50 μ m
Aperture	variable
Depth of focus	48 mm (F10, 470 nm, MTF = 20 % @ 20 LP/mm)
Lens mount	C-Mount
Filter thread, object-side	M144 x 0.75
Filter thread, camera-side	M20.5 x 0.5
Weight	4400 g
Usable object field with:	
• Sensor type 4/3 (17.3 x 13.0 mm ²)	100.9 mm x 75.8 mm
• 1" sensor (12.8 x 9.6 mm ²)	97.7 mm x 73.3 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

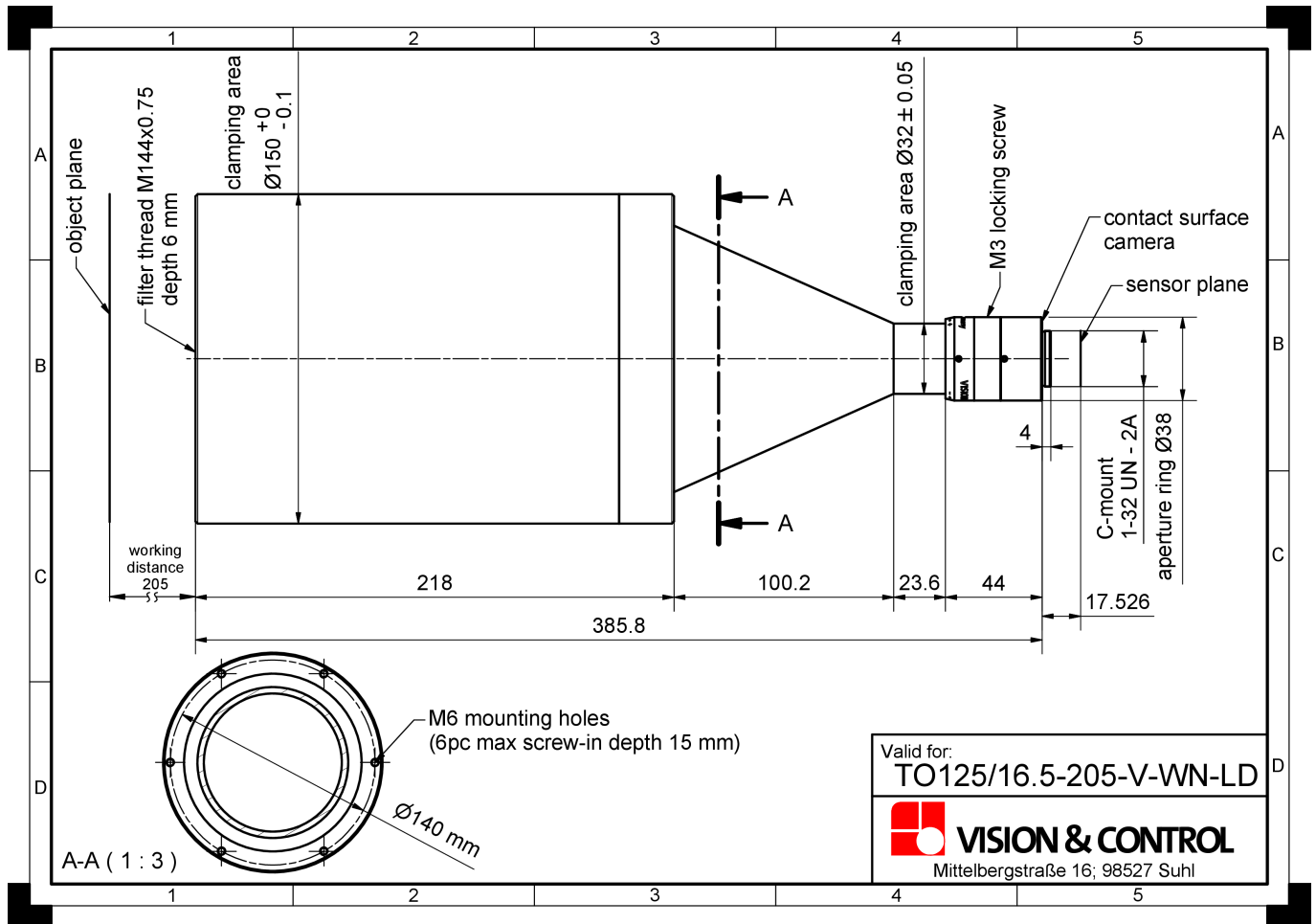
Order number	Title	Description
<i>TZB130 series</i>		
1-10-187	TZB130-B470-24V	telecentric light, blue, If diameter: 130 mm, static, cable open-ended
1-10-195	TZB130-W5K7-24V	telecentric light, white, If diameter: 130 mm, static, cable open-ended
1-10-189	TZB130-IR880-24V	telecentric light, IR850, If diameter: 130 mm, static, cable open-ended
1-10-185	TZB130-R625-24V	telecentric light, red, If diameter: 130 mm, static, cable open-ended
1-10-077	TZB130-G525-24V	telecentric light, green, If diameter: 130 mm, static, cable open-ended
<i>TZB130-UDC-a Serie</i>		
1-10-956	TZB130-B470/UDC/-a	telecentric light, blue, If diameter: 130 mm, flashable by flash controller
1-10-957	TZB130-W5K7/UDC/-a	telecentric light, white, If diameter: 130 mm, flashable by flash controller
1-10-958	TZB130-IR880/UDC/-a	telecentric light, IR850, If diameter: 130 mm, flashable by flash controller
1-10-955	TZB130-R625/UDC/-a	telecentric light, red, If diameter: 130 mm, flashable by flash controller
1-10-959	TZB130-G525/UDC/-a	telecentric light, green, If diameter: 130 mm, flashable by flash controller

Accessories for Telecentric Lenses - T0125/16.5-205-V-WN-LD

Order number	Title	Description
<i>Extension tubes</i>		
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)
<i>Thread adapter c-mount</i>		

Order number	Title	Description
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
<i>Daylight blocking filter</i>		
2-91-131	IR filter M20.5x0.5	long-pass filter from 830 nm, daylight absorbing filter, filter thread M20.5x0.5
<i>Colour filter red</i>		
2-91-259	Colour filter red M20.5x0.5	long-pass filter from 630 nm, red, filter thread M20.5x0.5
<i>Adapters for attaching lights to lenses</i>		
1-29-873	Adapter ring d104 - M144x0.75	for R-CLR-132x104 and RK5268, for attachment to lenses with filter thread M144x0.75

Drawings



Dimensional drawing in mm