
vicotar® Telecentric Lens - TO125/16.0-190-V-BW

Short description:	Telecentric Lens, C-Mount, Sensor max. 1", aperture F6 - F22, blue
Order number:	2-05-853
EAN:	4251692621707
Actual Notice:	Also available with fixed aperture on request. (F-numbers in the range as for adjustable aperture)



Characteristics

- telecentric measurement objective with object-sided telecentric beam path
 - color corrected for the visible spectral range and near infrared
 - color correction extended deep into the blue spectral range
 - very well suited for blue LEDs including "Deep Blue" LEDs
 - thus especially suitable for white LEDs, as these have a strong blue light component
 - high resolution, low lateral chromatic aberration, low distortion, low telecentric error
 - adjustable aperture with identification of the aperture numbers, arrestable
 - robust industrial design
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Technical data

Image scale	0.128
Spectral range	400 nm - 900 nm
Working distance	190 mm
Camera distance (object-camera flange)	515 mm
Object field diagonal (max)	125 mm
Sensor format (max)	1"
Image field diagonal (max)	16 mm
Suitable for camera resolution	39.2 MPixel
Recommended pixel size	1.77 μ m
Aperture	variable (F6 - F22)
Lens mount	C-Mount
Weight	3000 g
Usable object field with:	
• 1" sensor (12.8 x 9.6 mm ²)	100 mm x 75 mm
• 2/3" sensor (8.8 x 6.6 mm ²)	68.8 mm x 51.6 mm
• 1/1.8" sensor (7.1 x 5.4 mm ²)	55.5 mm x 42.2 mm
• 1/2" sensor (6.4 x 4.8 mm ²)	50 mm x 37.5 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

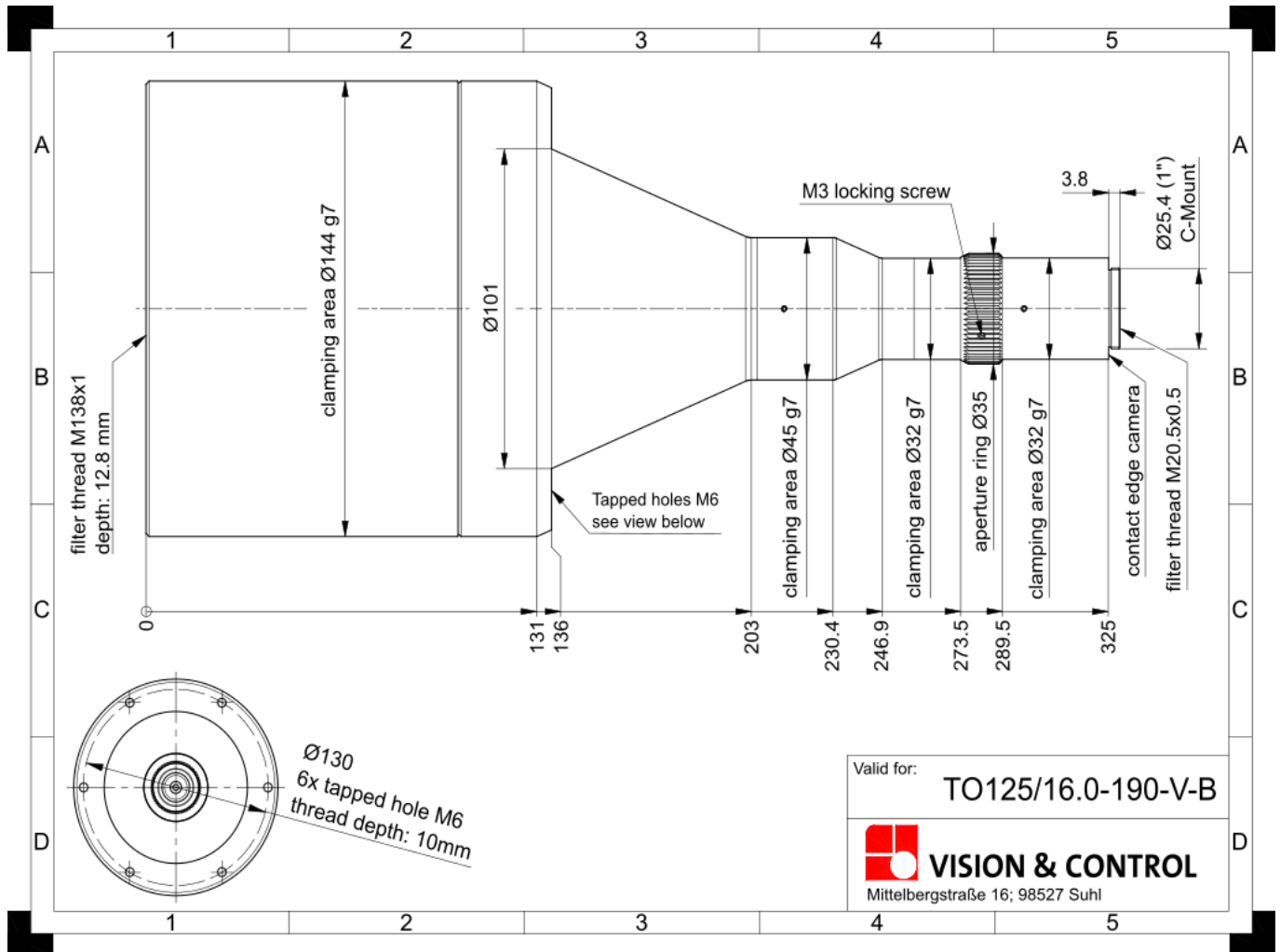
Order number	Title	Description
<i>TZB130 series</i>		
1-10-187	TZB130-B470-24V	telecentric light, blue, If diameter: 130 mm, static, cable open-ended
1-10-195	TZB130-W5K7-24V	telecentric light, white, If diameter: 130 mm, static, cable open-ended
1-10-189	TZB130-IR880-24V	telecentric light, IR850, If 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
<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>		
1-29-802	RK5268-B470-24V/C	ring light, blue, coaxial, If diameter: 104/132 mm, controlled, pot.: 0-10V,

Accessories for Telecentric Lenses - TO125/16.0-190-V-BW

Order number	Title	Description
<i>Lens mount</i>		
2-91-331	Mounting angle	Holder for telecentric lenses and lightings with with threaded hole M5
2-91-332	Mounting angle SH	Holder for telecentric lenses and lightings with with slotted hole for M4-M6
2-91-330	Lens Holder d45 wide	Holder for telecentric lenses and lightings with d = 45 mm, width = 32 mm
2-91-335	Mounting Bracket TO88 SH	Holder for telecentric lenses of the series TO88 with slotted hole for M4-M6
2-91-336	Mounting Bracket TO125	Holder for telecentric lenses of the series TO125 with threaded hole M5
<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)
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)
<i>Lens adapter c-mount</i>		
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
2-91-324	IR filter M138x1	long-pass filter from 830 nm, daylight absorbing filter, filter thread M138x1
<i>Colour filter blue</i>		
2-91-294	Colour filter blue M138x1	band-pass filter, range 350 nm - 600 nm, filter thread M138x1
<i>UV Cut-Off Filter</i>		
2-91-326	UV blocking filter M138x1	long-pass filter from 350 nm, usable as protective glass, filter thread M138x1

Order number	Title	Description
<i>Colour filter red</i>		
2-91-323	Colour filter red M138x1	long-pass filter from 630 nm, red, filter thread M138x1
2-91-259	Colour filter red M20.5x0.5	long-pass filter from 630 nm, red, filter thread M20.5x0.5
<i>Colour filter green</i>		
2-91-307	Colour filter green M138x1	band-pass filter, range 430 nm - 620 nm, filter thread M138x1
<i>Colour filter yellow</i>		
2-91-280	Colour filter yellow M138x1	long-pass filter from 530 nm, yellow, filter thread M138x1
<i>Adapters for attaching lights to lenses</i>		
1-29-876	Adapter ring d104 - M138x1	for R-CLR-132x104 and RK5268, for attachment to lenses with filter thread M138x1

Drawings



Dimensional drawing in mm