
vicotar® Telecentric Lens - TO112/21.3-500-V-eLD

Short description: Telecentric measuring lens, C-mount, sensor opt. type 4/3, aperture F8-F22, extremely LD

Order number: 2-05-634



Characteristics

- telecentric measurement objective with object-sided telecentric beam path
 - extremely long working distance
 - Designed for monochromatic applications
 - very well suited for blue LEDs including "Deep Blue" LEDs
 - high resolution, low telecentric error
 - adjustable aperture with identification of the aperture numbers, arrestable
 - robust industrial design
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Technical data

Image scale	0.188
Spectral range	400 nm - 950 nm
Working distance	500 mm
Camera distance (object-camera flange)	901.5 mm
Object field diagonal (max)	112 mm
Sensor format (max)	Type 4/3
Image field diagonal (max)	21.3 mm
Suitable for camera resolution	25 MPixel
Recommended pixel size	3 µm
Aperture	verstellbar (F8 - F22)
Depth of focus	31 mm (F11, 525 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	4500 g
Usable object field with:	
• Sensor type 4/3 (17.3 x 13.0 mm ²)	90.7 mm x 68.1 mm
• 1" sensor (12.8 x 9.6 mm ²)	68.1 mm x 51.1 mm
• 2/3" sensor (8.8 x 6.6 mm ²)	46.8 mm x 35.1 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

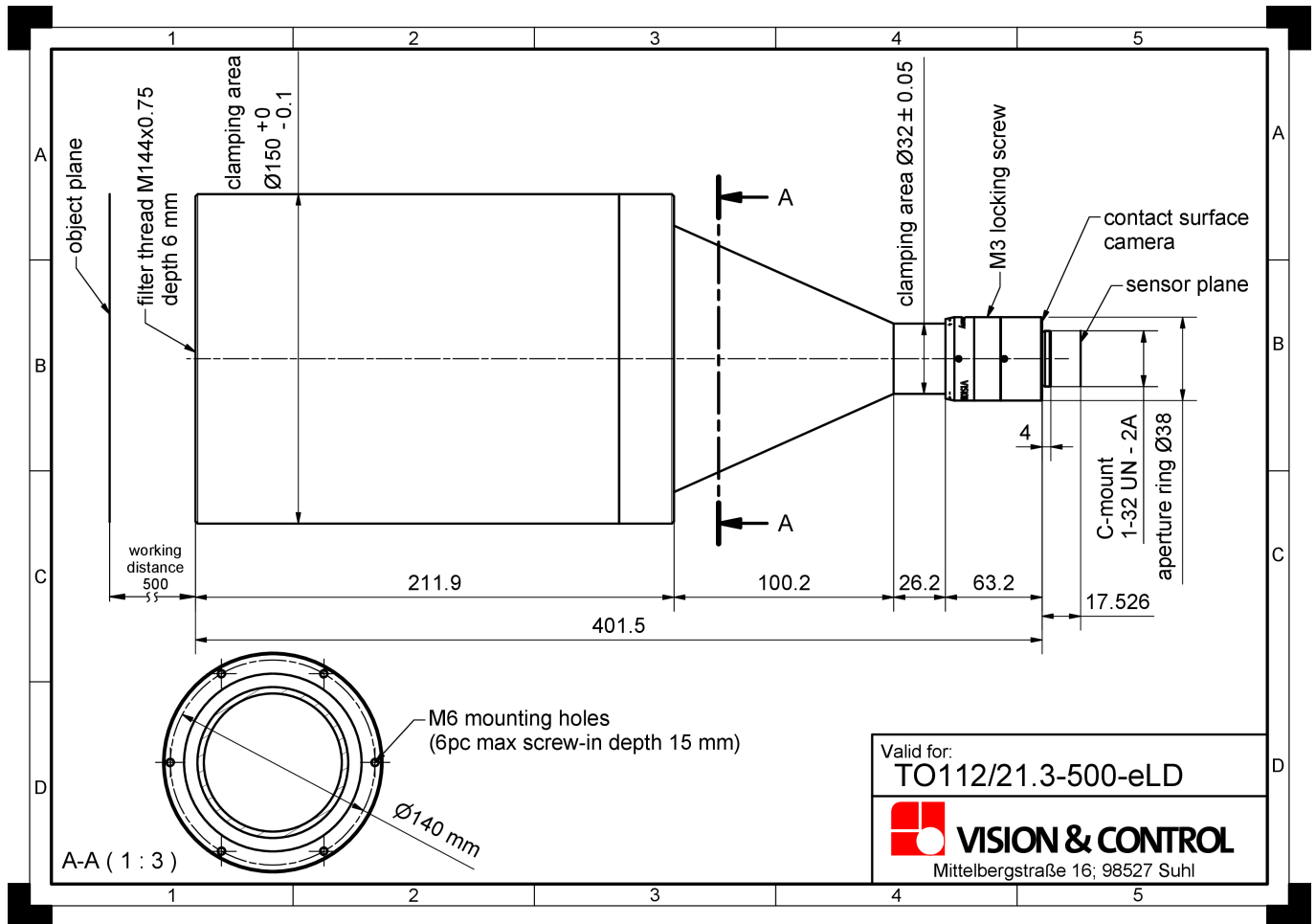
Order number	Title	Description
<i>TZB130 series</i>		
1-10-187	TZB130-B470-24V	telecentric light, blue, If diameter: 130 mm, static, cable open-ended
1-10-195	TZB130-W5K7-24V	telecentric light, white, If diameter: 130 mm, static, cable open-ended
1-10-189	TZB130-IR880-24V	telecentric light, IR850, If 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 - T0112/21.3-500-V-eLD

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>Lens adapter c-mount</i>		

Order number	Title	Description
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
Colour filter red		
2-91-259	Colour filter red M20.5x0.5	long-pass filter from 630 nm, red, filter thread M20.5x0.5
Adapters for attaching lights to lenses		
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