
vicotar® Telecentric Lens - TO78/16.0-600-V-eLD

Short description: Telecentric measuring lens, C-mount, sensor opt. 1", aperture F8-F22, extremely LD

Order number: 2-05-632



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	0.202
Spectral range	400 nm - 950 nm
Working distance	600 mm
Camera distance (object-camera flange)	863 mm
Object field diagonal (max)	78 mm
Sensor format (max)	1"
Image field diagonal (max)	16 mm
Suitable for camera resolution	13.7 MPixel
Recommended pixel size	3 µm
Aperture	verstellbar (F8 - F22)
Depth of focus	30 mm (F11, 525 nm, MTF = 20 % @ 20 LP/mm)
Lens mount	C-Mount
Filter thread, object-side	M100 x 1-5
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)	63.4 mm x 47.5 mm
• 2/3" sensor (8.8 x 6.6 mm ²)	43.6 mm x 32.7 mm
• 1/1.8" sensor (7.1 x 5.4 mm ²)	35.1 mm x 26.7 mm
• 1/2" sensor (6.4 x 4.8 mm ²)	31.7 mm x 23.8 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

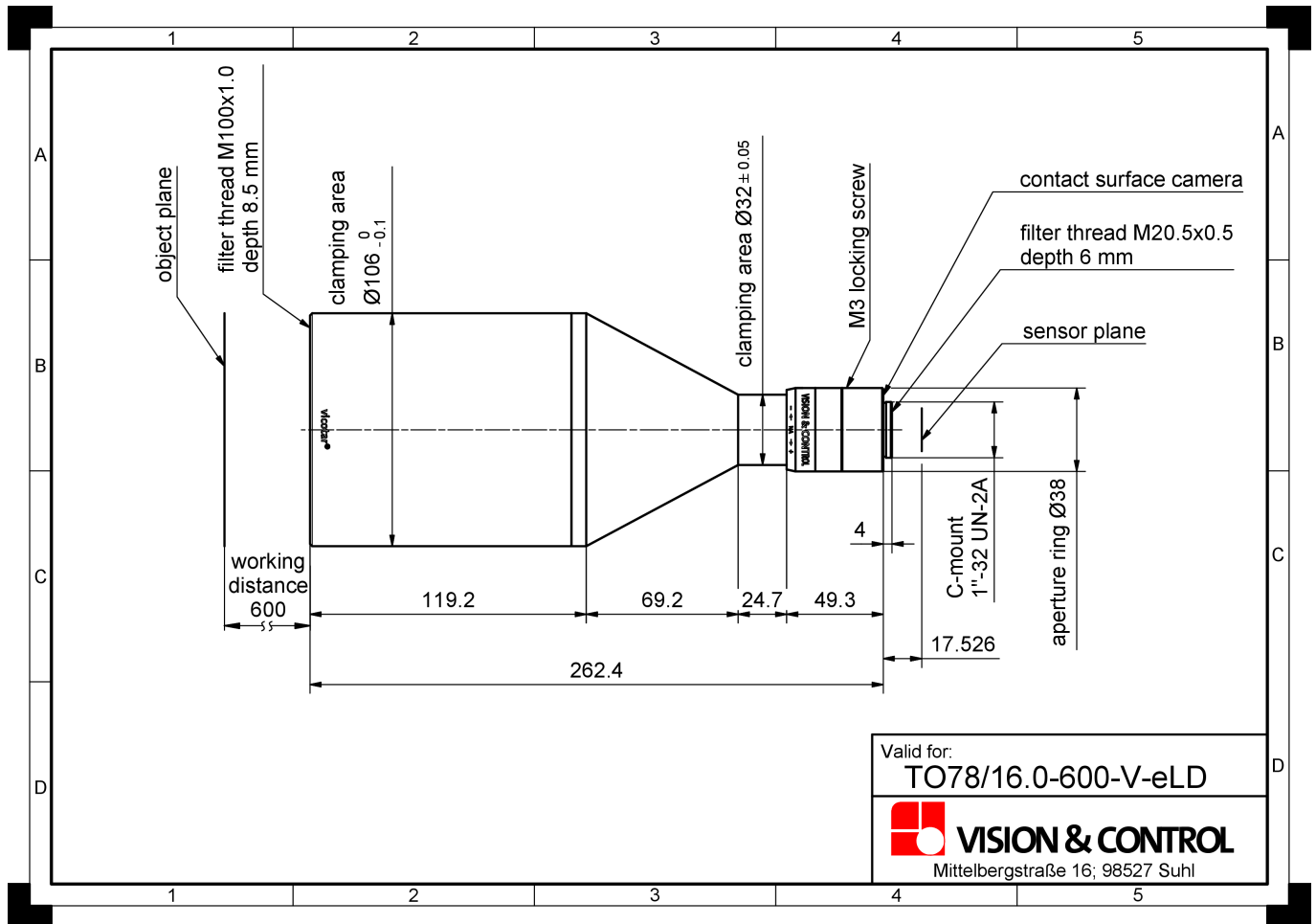
Accessories for Telecentric Lenses - T078/16.0-600-V-eLD

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)
Lens adapter c-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		
1-29-774	Adapter ring d73 - M100x1	for R-CLR-100x73 und RK3652, for attachment to lenses with filter thread M100x1

Order number	Title	Description
1-29-872	Adapter ring d104 - M100x1	for R-CLR-132x104 and RK5268, for attachment to lenses with filter thread M100x1
<i>Beam splitter STE60x60</i>		
1-20-023	Adapter STE60x60 - TZO106	Attachment of the STE60x60 to telecentric lenses and lightings with d = 106mm

Drawings



Dimensional drawing in mm