
vicotar® Telecentric Lens - TOM4.5/43.3-48-F24-WN

Short description:	Telec. Microscope Lens 9.6x, M42, sensor opt. "Type 35 mm", fixed aperture, W/NIR
Order number:	2-05-615
EAN:	4251692621486



Characteristics

- telecentric microscope lens with object-sided telecentric beam path
 - for precise measurement of small objects
 - high resolution, low-distortion, low telecentric error
 - color corrected for the visible spectral range and near infrared
 - robust industrial design
 - fixed aperture
 - M42 threaded connection
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Technical data

Image scale	9.65
Spectral range	400 nm - 950 nm
Working distance	48 mm
Camera distance (object-camera flange)	276 mm
Object field diagonal (max.)	4.5 mm
Sensor format (opt.)	Type 35 mm
Image field diagonal (max.)	43.3 mm
Suitable for camera resolution	72.6 MPixel
Recommended pixel size	3.45 μm
Aperture	fixed (F24)
Depth of focus	0.04 mm (470 nm, MTF = 20% @ 20LP/mm)
Lens mount	M42 (Auflagemaß 45.46 mm)
Filter thread, object-side	M30.5 x 0.5 (Filteradapter)
Weight	500 g
Usable object field with:	
• Sensor type 35 mm (36.0 x 24 mm ²)	3.7 mm x 2.5 mm
• Sensor type DX (23.7 x 15.6 mm ²)	2.5 mm x 1.6 mm
• Sensor type 4/3 (17.3 x 13.0 mm ²)	1.8 mm x 1.3 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

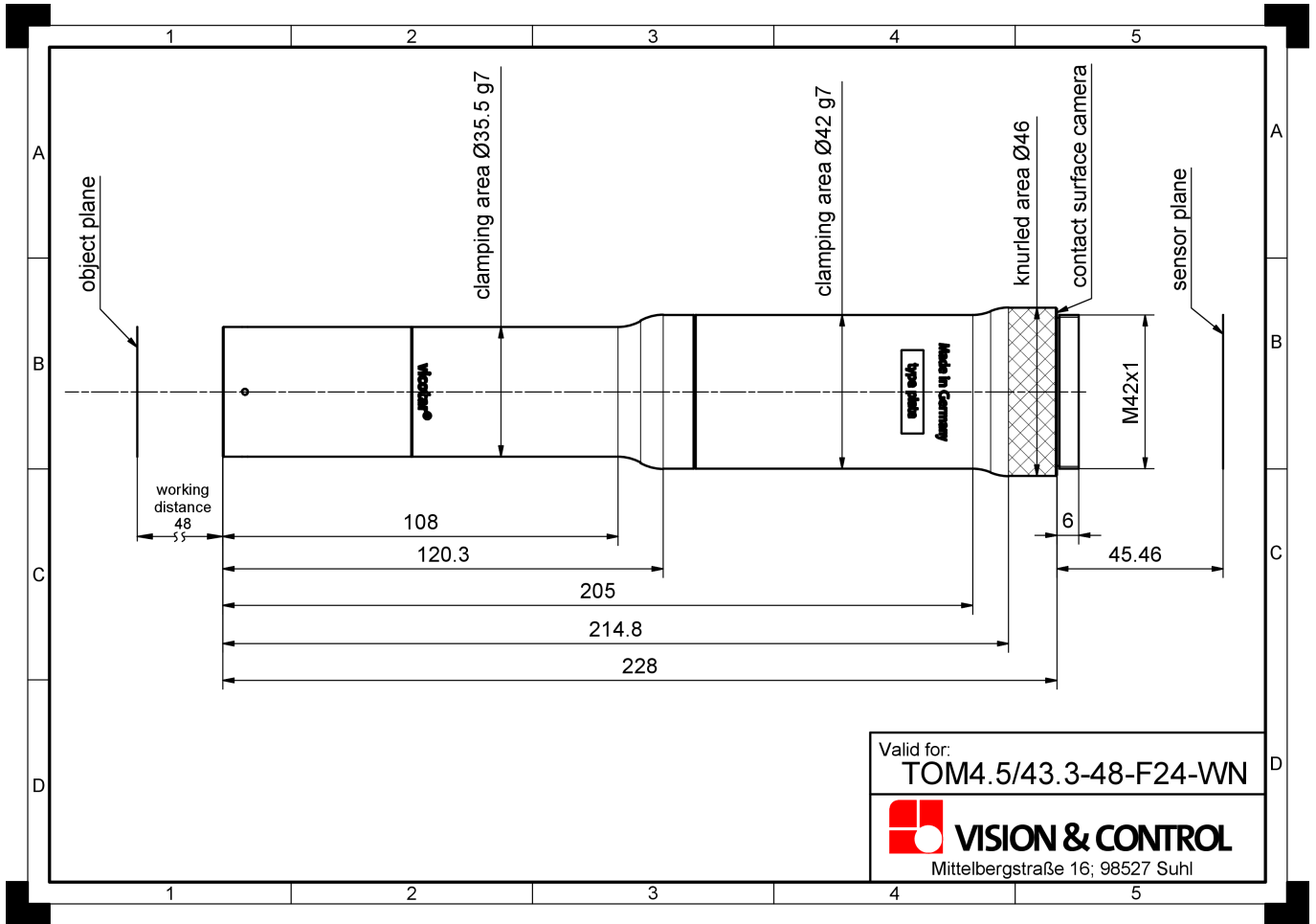
Order number	Title	Description
Beam splitter STE30x30		
1-18-050	STE30x30-VIS	Beam splitter unit for coaxial light system, optimized for 450-700 nm
1-18-024	Adapter STE30x30 - TZO35,5	Attachment of the STE30x30 to telecentric lenses and lightings with d = 35.5 mm

Accessories for Telecentric Lenses - TOM4.5/43.3-48-F24-WN

Order number	Title	Description
Lens mount		
2-90-124	Lens Holder d35,5	Holder for telecentric lenses and lightings with d = 35,5 mm
Thread adapter M42		
5-00-014	Thread adapter M42x1-M42x1-L29	Adapter for mounting of lenses with M42x1 mount on cameras with M42x1 BFL 16 mm
5-00-013	Thread adapter M42x1-M42x1-L33	Adapter for mounting of lenses with M42x1 mount on cameras with M42x1 BFL 12 mm
5-00-012	Thread adapter M42x1-M40x0.75	Adapter for mounting of lenses with M42x1 mount on cameras with M40x0.75 mount
5-00-010	Thread adapter M42-C-mount	Adapter for mounting of lenses with M42x1 mount on cameras with C-mount
Neutral density filter		
2-91-257	ND filter 3.0 M30.5x0.5	optical density 3.0 - 0.1% transmission, f-stop reduction 10, filter thread M30.5x0.5
2-91-247	ND filter 1.2 M30.5x0.5	optical density 1.2 - 6.3% transmission, f-stop reduction 4, filter thread M30.5x0.5
2-91-237	ND filter 0.6 M30.5x0.5	optical density 0.6 - 25% transmission, f-stop reduction 2, filter thread M30.5x0.5
Daylight blocking filter		
2-91-217	IR filter M30.5x0.5	long-pass filter from 830 nm, daylight absorbing filter, filter thread M30.5x0.5
Colour filter blue		

Order number	Title	Description
2-91-284	Colour filter blue M30.5x0.5	band-pass filter, range 350 nm - 600 nm, filter thread M30.5x0.5
UV Cut-Off Filter		
2-91-207	UV blocking filter M30.5x0.5	long-pass filter from 350 nm, usable as protective glass, filter thread M30.5x0.5
Colour filter red		
2-91-267	Colour filter red M30.5x0.5	long-pass filter from 630 nm, red, filter thread M30.5x0.5
Colour filter green		
2-91-297	Colour filter green M30.5x0.5	band-pass filter, range 430 nm - 620 nm, filter thread M30.5x0.5
Colour filter yellow		
2-91-271	Colour filter yellow M30.5x0.5	long-pass filter from 530 nm, yellow, filter thread M30.5x0.5
Filter adapter		
2-91-188	Filter adapter d35.5-M30.5	slip-on adapter for use of a M30.5x0.5 filter on lenses with 35.5 mm clamping diameter
Deflection mirror 90° series		
2-25-116	Deflection mirror 90-35.5	90° deflection, attachment for telecentric lenses and lightings with d = 35.5 mm
Adapters for attaching lights to lenses		
1-29-671	Adapter ring d41 - M30.5x0.5	for R-CLR-69x41 and RK2036, for attachment to lenses with filter thread M30.5x0.5
Beam splitter STE30x30		
1-18-024	Adapter STE30x30 - TZ035,5	Attachment of the STE30x30 to telecentric lenses and lightings with d = 35.5 mm

Drawings



Dimensional drawing in mm