
vicotar[®] Telecentric Lens - TOM5.9/43.4-48-F22-WN

Short description: Telec. Microscope Lens 7.4x, M42, sensor max.
"Type 35 mm", fixed aperture, W/NIR

Order number: 2-05-614

EAN: 4251692621479



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
 - with lens adapter (5-00-012), the lens connection M40x0.75 is also possible
 - without restriction of the optical properties (back focal distance = 17.526 mm)
-

Technical data

Image scale	7.356
Spectral range	400 nm - 950 nm
Working distance	48.0 mm
Camera distance (object-camera flange)	226 mm
Object field diagonal (max)	5.9 mm
Sensor format (max)	Type 35 mm
Image field diagonal (max)	43.4 mm
Suitable for camera resolution	72.6 MPixel
Recommended pixel size	3.45 µm
Aperture	fixed (F22)
Lens mount	M42x1 (Auflagemaß 45.46 mm)
Filter thread, object-side	M30.5x0.5 (filter adapter)
Weight	243 g
Usable object field with:	
• Sensor type 35 mm (36.0 x 24 mm ²)	4.9 mm x 3.3 mm
• Sensor type DX (23.7 x 15.6 mm ²)	3.2 mm x 2.1 mm
• Sensor type 4/3 (17.3 x 13.0 mm ²)	2.4 mm x 1.8 mm

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 - TOM5.9/43.4-48-F22-WN

Order number	Title	Description
Lens mount		
2-90-123	Lens Holder d34	Holder for telecentric lenses and lightings with d = 34 mm
Lens adapter M42		
5-00-012	Thread adapter M42x1-M40x0.75	Adapter for mounting lenses with M42x1 mount on cameras with M40x0.75
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		
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

Order number	Title	Description
<i>Colour filter red</i>		
2-91-267	Colour filter red M30.5x0.5	long-pass filter from 630 nm, red, filter thread M30.5x0.5
<i>Colour filter green</i>		
2-91-297	Colour filter green M30.5x0.5	band-pass filter, range 430 nm - 620 nm, filter thread M30.5x0.5
<i>Colour filter yellow</i>		
2-91-271	Colour filter yellow M30.5x0.5	long-pass filter from 530 nm, yellow, filter thread M30.5x0.5
<i>Filter adapter</i>		
2-91-187	Filter adapter d34-M30.5	slip-on adapter for use of a M30.5x0.5 filter on lenses with 34 mm clamping diameter
<i>Deflection mirror 90° series</i>		
2-25-110	Deflection mirror 90-34	90° deflection, attachment for telecentric lenses and lightings with d = 34 mm
<i>Adapters for attaching lights to lenses</i>		
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
<i>Beam splitter STE30x30</i>		
1-18-023	Adapter STE30x30 - TZ034	Attachment of the STE30x30 to telecentric lenses and lightings with d = 34 mm

Drawings



Dimensional drawing in mm