
vicotar[®] Telecentric Lens - TL380/15.2-400-V-N-LW

Short description: Telecentr. large field lens, C-mount, sensor max. 1", variable aperture, for near IR

Order number: 2-05-379

Notice: This lens is also available for red and blue. We currently realize customer-specific fields of view of up to 600 mm as well as camera connections for larger sensor formats, such as M42 and M72. Other colors incl. SWIR are also possible.



Characteristics

- telecentric lens with extremely large object field for C-mount cameras
 - low-distortion, low telecentric error
 - lightweight thanks to Fresnel technology
 - Designed for monochromatic applications
 - adjustable aperture, arrestable
 - working distance adjustable to customer requirements
 - especially suited for component inspection
 - internal filter for false light suppression installed by the manufacturer
 - protective glass available as an accessory
 - robust industrial design
-

Technical data

Image scale	0.04
Spectral range	830 nm - 950 nm, (monochromatic)
Working distance	100-400 mm, highest resolution at 100-150 mm
Camera distance (object-camera flange)	829 mm
Object field diagonal (max)	380 mm
Sensor format (max)	1"
Image field diagonal (max)	15.2 mm
Suitable for camera resolution	10.3 MPixel
Recommended pixel size	3.45 µm
Aperture	variable
Depth of focus	544 mm (@ F16)
Lens mount	C-Mount
Weight	9000 g
Usable object field with:	
• 1" sensor (12.8 x 9.6 mm ²)	320 mm x 240 mm
• 2/3" sensor (8.8 x 6.6 mm ²)	220 mm x 165 mm
• 1/1.8" sensor (7.1 x 5.4 mm ²)	177.5 mm x 135 mm
• 1/2" sensor (6.4 x 4.8 mm ²)	160 mm x 120 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>SLE-150-P-SL series</i>		
1-33-302	SLE-150-IR850-P-SL	compact spot light, IR850, P-LED, variable work distance, condenser lens, smart light
<i>SLE-150-P-24V series</i>		
1-33-312	SLE-150-IR850-P-24V	compact spot light, IR850, P-LED, variable work distance, condenser l., 24V, switchable

Accessories for Telecentric Lenses - TL380/15.2-400-V-N-LW

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)
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>Filter adapter</i>		
2-91-119	PG 390	protective glass, for TL 370/371/380 series, incl. installation material

Drawings



Dimensional drawing in mm