

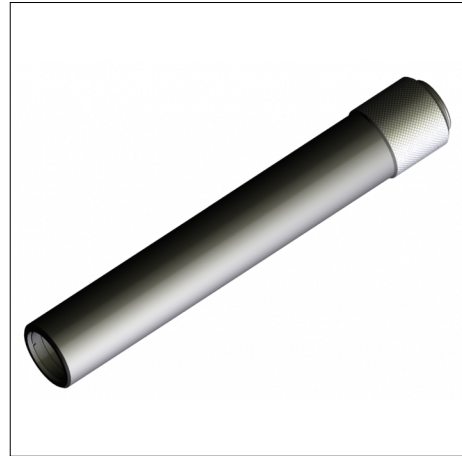
Telecentric measurement lenses

vicotar®

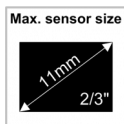
T125 series

Product features

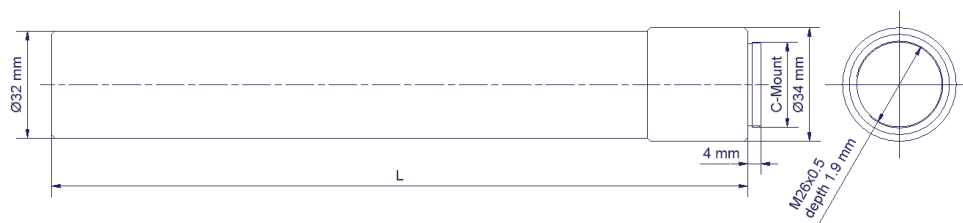
- Object side telecentric light path
- Application for matrix and line cameras up to sensor diagonal/length 11 mm
- Maximum object field diameter 15.5 mm
- Measuring lenses with long working distance
- Fixed aperture
- Robust industrial design: dust-proof, shock-proof
- C-mount (thread connection)



Options



Engineering drawing



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Manual


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Telecentric measurement lenses

vicotar®

T125 series

Properties

Optical properties

Spectral range 380...900nm / colour-corrected / fast lenses

Mechanical properties

Flange focal distance 17.53mm / max. diameter of lenses 34mm / focal filter thread M26 x 0.5 / environmental temperature -10°C ... 50°C

Technical data

Name	Order no.	Lateral magnification	Object side depth of field (mm)*	Field of view for 1" sensor (mm²)	Field of view for ¾" sensor (mm²)	Field of view for 1/1.8" sensor (mm²)	Field of view for ½" sensor (mm²)	Field of view for ⅓" sensor (mm²)	Field of view for ¼" sensor (mm²)
T125/0.7L	2-05-310	-1 : 1.41	2.7 (0.7)	--	12.4 × 9.3	10.0 × 7.6	9.0 × 6.8	6.8 × 5.1	5.1 × 3.8

*Object side depth of field at a circle of confusion 40 (10) µm and a middle aperture setting.

We provide technical information to the distortion or the telecentric error of a certain lens by our technical support upon request.

Size of imaging device:

1.2" - 15.16 x 15.16 mm² | 1" - 12.8 x 9.6 mm² | ¾" - 8.8 x 6.6 mm² | 1/1.8(=5/9)" - 7.1 x 5.4 mm² | ½" - 6.4 x 4.8 mm² | ⅓" - 4.8 x 3.6 mm²

Name	Order no.	Max. object field diagonal	Image side aperture (fixed)	Working distance	Total length L	Weight
T125/0.7L	2-05-310	15.5 mm	0.03	197 ± 2 mm	208 mm	300 g

Important advice

Anxiliary adjusting device

The optical axis must be aligned perpendicularly to object level / plane of measurement to realize exact measurement. This anxiliary adjusting device lower time and effort for setup. Please find further information in the corresponding data sheet.

Protection glass

High-quality front lens of the objective can be protected against impurities and damages by means of protection glass UV M26 x 0.5. You shall be screw-on first lens.

Care instruction

Clean easily dirty lens with an optics brush or cleaned air. Adherent contamination can be removed by using an optical cleaning tissue. Please use only alcohol as a solvent, do not use acetone or other chemicals.

Accessories

Order no.	Name	Description
2-25-113	PSO 90-100/125	beam-deflection unit (90°) for lens-systems T100 / T125- series
2-90-122	OH 32	lens holder, d = 32 mm
2-91-123	UV M26 x 0,5	protection glass for telecentric lens-systems
2-91-131	IR M20.5 x 0.5	daylight suppression filter for telecentric lens-systems
5-10-111	JH 5	adjustment-help for 5mm depth of focus

You can find a multiplicity of filters in the chapter accessories. Please order the filters separately.