

Telecentric widefield lenses with adjustable aperture

vicotar®

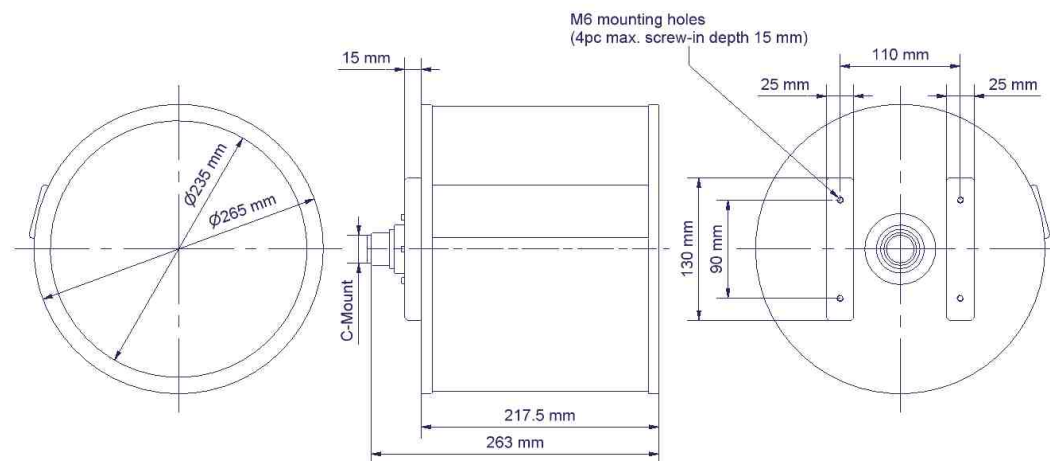
TL250 series

Product features

- Object side telecentric light path
- Application for matrix cameras up to sensor diagonal 6 mm
- Maximum object field diameter 228 mm
- Suitable for checking for the presence, special properties and nondimensional attributes of large objects
- Manual operated iris aperture with fixing
- Robust industrial design: dust-proof, shock-proof, use of plastic lenses
- C-mount (thread connection)
- Telecentric widefield lenses provide the best imaging results in conjunction with monochrome, diffuse vicolux® lighting units



Engineering drawing



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Manual

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Properties

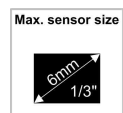
Optical properties

Spectral range 380...900nm / fast lenses

Mechanical properties

Flange focal distance 17.53mm / max. diameter of lenses 265mm /
environmental temperature -10°C ... 50°C

Variants



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Optical data

Name	Order no.	Lateral magnification	Image side aperture (adjustable)	Object side depth of field [mm]*	Field of view for 1" sensor [mm ²]	Field of view for 2/3" sensor [mm ²]	Field of view for 1/2" sensor [mm ²]	Field of view for 1/3" sensor [mm ²]
TL250/0,03	2-05-360	-1 : 38	0,3 ... 0	192 (48)	--	--	--	182 × 137

*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.

1" - 12,8 x 9,6 mm² | 2/3" - 8,8 x 6,6 mm² | 1/2" - 6,4 x 4,8 mm² | 1/3" - 4,8 x 3,6 mm²

Mechanical data

Name	Order no.	Max. object field diameter	Working distance	Total length L	Mounting points	Weight
TL250/0,03	2-05-360	228 mm	220 mm	265 mm	4 × M6	3,8 kg

Important advice

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.