

Edmund Optics TML™ Telecentric Measuring Lenses

- Designed for Metrology and Gauging Applications
- Economical
- Exceptional Image Quality
- Fixed Focus
- 1/2" CCD Max Format Design
- Ideal for Factory Automation

Telecentric lenses correct perspective errors that yield variations in magnification through the depth of field. TML™ lenses offer a compact, cost-effective solution for replacing standard fixed focal length lenses. Telecentric lenses are ideal for both on-line and off-line production environments that require accurate measurements. Edmund has designed this series of lenses to specifically replace lenses that give inaccurate or inconsistent readings.

TML™ lenses offer superior image quality and less distortion than conventional fixed focal length lenses. This design yields more symmetrical images that are superior for software-integrated measurements.

Each lens also has a standard front filter thread. Two different, unique twin-ring mounting clamps are available separately. Each mounting clamp has the same twin-ring clamp design that fits on the 30mm diameter mounting surface. One offers a 1.75" (dimension A in diagram below, center of TML™ to bottom of mounting clamp base) stand-off distance that is ideal for 0.60X through 0.25X TML™s. The 2.25" stand-off version is ideal for the larger 0.20X and 0.16X TML™s. Bases have a variety of 1/4-20 tapped and clearance holes.

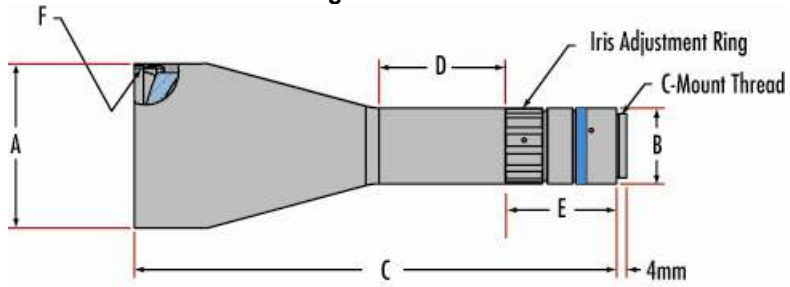
Primary Magnification	0.16X
Working Distance (±3mm)	175mm
DOF (10% @ 20lp/mm, F10)	±19.7mm
Weight (lens only)	500g
Stock Number	LEC-56675

Common Specifications	
Max. CCD Format	1/1.8"
Aperture (f/#)	F6 - Closed
Resolution (image space @ F10)	>40% at 40lp/mm
Telecentricity	<0.1°
Distortion	<0.3%
Lens Element Coating	BBAR from 425-675nm

PMag	A	B	C	D	E	F
0.16X	65mm	30mm	191mm	50mm	43mm	M62 x 0.75

Field of View and Res. Table	IN-SIGHT				DVT Vision Sensors		
		5100, 5400, 5400C, 5400S	5401	5403	542C, 552C	515, 535, 545, 550, XS	554, 554C
0.60X TML	5000						
FOV in mm	22.40	29.60	29.76	44.00	22.40	29.60	9.92
Res. per pixel in microns	35.00	46.25	29.06	27.50	35.00	46.25	7.75
FOV in inches	0.8	1.17	1.17	1.73	0.8	1.17	0.39
Res. per pixel in inches	0.001	0.0018	0.0011	0.0011	0.001	0.0018	0.0003

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Mounting Bracket

