

Standard 5 MP telecentric lens

LS-TLTC-5MP series · Telecentric lenses · 10 models



Standard 5 million pixel telecentric lenses with low distortion ($< 0.02\%$), 16mm outer diameter compact options for narrow spaces, and magnifications 2.0X, 1.5X, 1.0X, 0.8X and 0.5X.

Features

- Low distortion $< 0.02\%$
- 16mm outer diameter, compact structure, adapted to narrow space
- Supporting magnification: 2.0X, 1.5X, 1.0X, 0.8X, 0.5X
- TL model is not a coaxial illumination telecentric lens; TC model means coaxial illumination telecentric lens

Applications

- AOI 3D inspection
- Integrated circuit package
- Semiconductor, printing circuit inspection
- Medicine, medical instrument inspection
- Auto parts inspection

Common specifications

Mount	C
Resolution	5 MP

Ordering code: LS-<TL/TC><magnification><WD>-5MP (catalog example LS-20 40-5MP: magnification, WD, 5 million resolution)

Models

Model	Magnification (X)	WD (mm)	Max. supporting target surface	Aperture F/#	Distortion (%)	Telecentricity (deg.)	Image space resolution (um)
LS-TL20040-5MP	2	40	1/1.8"	1:6.5	< 0.02	< 0.05	3.45
LS-TC20040-5MP	2	40	1/1.8"	1:6.5	< 0.02	< 0.05	3.45
LS-TL15040-5MP	1.5	40	1/1.8"	1:12.5	< 0.05	< 0.05	5

LS-TC15040-5MP	1.5	40	1/1.8"	1:12.5	<0.05	<0.05	5
LS-TL10110-5MP	1	110	2/3"	1:11	<0.1	<0.05	5
LS-TC10110-5MP	1	110	2/3"	1:11	<0.1	<0.05	5
LS-TL08110-5MP	0.8	110	2/3"	1:11	<0.1	<0.05	5
LS-TC08110-5MP	0.8	110	2/3"	1:11	<0.1	<0.05	5
LS-TL05110-5MP	0.5	110	2/3"	1:9.6	<0.1	<0.3	5
LS-TC05110-5MP	0.5	110	2/3"	1:9.6	<0.1	<0.3	5

More values per model (Depth of field @40um, Max. diameter (mm), Length (mm), Weight (kg), Coaxial illumination, Sensor format, Working distance (mm)) are on each product page.

Performance

