

# Standard 5 million telecentric lenses



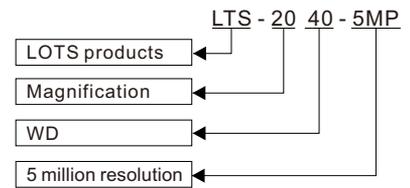
## → Characteristics

- ◆ 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

## → Applications

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

## → Coding Rule

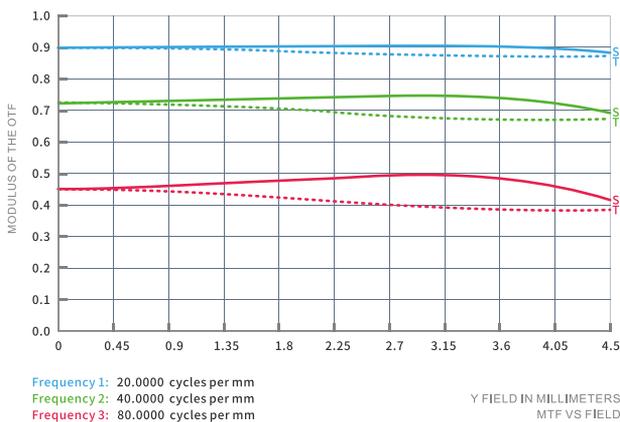


## → Parameter

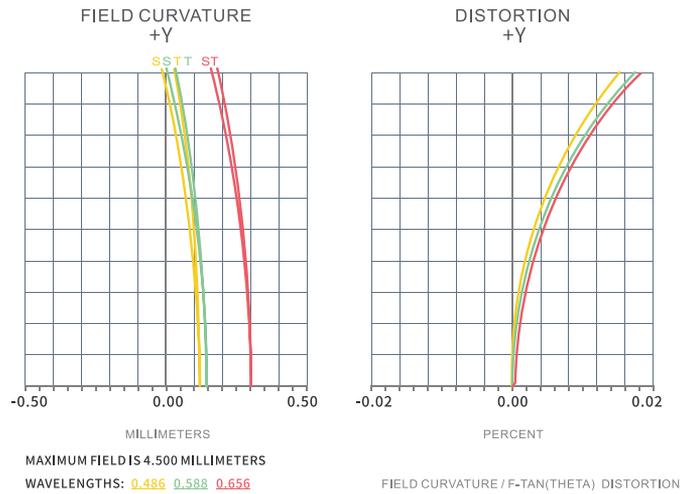
Model	Magnification (X)	WD (mm)	Max. supporting target surface (°)	Aperture F/#	Distortion (%)	Telecentricity (deg.)	Image space resolution (μm)	Depth of field @ 40μm (mm)	Max. diameter Φ (mm)	Length (mm)	Weight (kg)	Mount
LTS-TL20040-5MP	2	40	1/1.8	1:6.5	<0.02	<0.05	3.45	±0.02mm	25	102.2	0.124	C
LTS-TC20040-5MP	2	40	1/1.8	1:6.5	<0.02	<0.05	3.45	±0.02mm	25	102.2	0.135	C
LTS-TL15040-5MP	1.5	40	1/1.8	1:12.5	<0.05	<0.05	5	±0.1mm	16	54	0.035	C
LTS-TC15040-5MP	1.5	40	1/1.8	1:12.5	<0.05	<0.05	5	±0.1mm	16	54	0.045	C
LTS-TL10110-5MP	1	110	2/3	1:11	<0.1	<0.05	5	±0.1mm	30	134.6	0.149	C
LTS-TC10110-5MP	1	110	2/3	1:11	<0.1	<0.05	5	±0.1mm	30	138	0.16	C
LTS-TL08110-5MP	0.8	110	2/3	1:11	<0.1	<0.05	5	±0.2mm	30	121.8	0.136	C
LTS-TC08110-5MP	0.8	110	2/3	1:11	<0.1	<0.05	5	±0.2mm	30	125.2	0.146	C
LTS-TL05110-5MP	0.5	110	2/3	1:9.6	<0.1	<0.3	5	±0.6mm	35	131	0.171	C
LTS-TC05110-5MP	0.5	110	2/3	1:9.6	<0.1	<0.3	5	±0.6mm	35	131	0.18	C

\*TL model is not coaxial illumination telecentric lens, TC model means coaxial illumination telecentric lens

## → MTF Drawing



## → Distortion drawing



Line scan illumination	3LINH
	3LINL
Structured light	3LIN
	2LINS
	2LIN
	2COXL
Ring illumination	2LINM
	SDL
	STL
Shadowless illumination	RN
	RNH
	SRN
Bar illumination	HPR
	FPR
	DML
	LFR
	3DM
	2DM
	LFX
FPQ	
Coaxial illumination	RIH
	DL
	3BRH
	2BR
Multi-angle illumination	2BRS
	2BRM
	3COH
Back illumination	3CON
	COXR
	3COX
	COPA
Waterproof illumination	HSL
	2SL
Infrared light	SL
	RNMU
Ultraviolet light	AOI
	2FTB/2FTR
Customized	2FTC
	2FT/3FT
Controller	2PFT/3PFT
	LIP
	IP
	IR
	UV
	Customized
	Customized
Lenses	PS
	PD
	2DRC
	3STU
	APC
	DPC
2APC	
Lenses	DPA
	2ACC
	2DPC
	Area scan
Line scan	

