



vicotar® Optics – Telecentric Lenses

LENS TYPE	IMAGE SCALE	FIELD OF VIEW [mm ²]						WORKING DISTANCE [mm]	APERTURE ADJUSTABLE
		1.2"	1"	2 / 3"	1 / 1.8"	1 / 2"	1 / 3"		
		15.2 x 15.2 mm ²	12.8 x 9.6 mm ²	8.8 x 6.6 mm ²	7.1 x 5.4 mm ²	6.4 x 4.8 mm ²	4.8 x 3.6 mm ²		
ENLARGING TELECENTRIC LENSES									
10 x	-10 : 1	1.5 x 1.5	1.3 x 1.0	0.88 x 0.66	0.71 x 0.54	0.64 x 0.48	0.48 x 0.36	49.5	□
5 x	-5 : 1	3.0 x 3.0	2.6 x 1.9	1.76 x 1.32	1.42 x 1.08	1.28 x 0.96	0.96 x 0.72	64	□
3 x	-3 : 1	5.1 x 5.1	4.2 x 3.2	2.93 x 2.20	2.37 x 1.80	2.13 x 1.60	1.60 x 1.20	75.5	□
1 x	-1 : 1	15.2 x 15.2	12.8 x 9.6	8.8 x 6.6	7.1 x 5.4	6.4 x 4.8	4.8 x 3.6	79	□
T10/9.7L	-9.7 : 1	1.56 x 1.56	1.32 x 0.99	0.91 x 0.68	0.73 x 0.56	0.66 x 0.49	0.49 x 0.37	48	□
T10/7.4L	-7.4 : 1	2.05 x 2.05	1.73 x 1.30	1.19 x 0.89	0.96 x 0.73	0.86 x 0.65	0.65 x 0.49	49	□
T24/3.0a	-3 : 1			2.9 x 2.2	2.4 x 1.8	2.1 x 1.6	1.6 x 1.2	30	■
T24/2.5a	-2.5 : 1			3.5 x 2.6	2.8 x 2.2	2.6 x 1.9	1.9 x 1.4	38	■
T24/2.0a	-2 : 1			4.4 x 3.3	3.6 x 2.7	3.2 x 2.4	2.4 x 1.8	34	■
T24/1.5a	-1.5 : 1				4.7 x 3.6	4.3 x 3.2	3.2 x 2.4	39	■
T42/1.4	-1.4 : 1	10.8 x 10.8	9.1 x 6.9	6.3 x 4.7	5.1 x 3.9	4.6 x 3.4	3.4 x 2.6	102	□
T43/1.4	-1.4 : 1	10.8 x 10.8	9.1 x 6.9	6.3 x 4.7	5.1 x 3.9	4.6 x 3.4	3.4 x 2.6	102	□
T45/5.0L	-5 : 1	3.0 x 3.0	2.6 x 1.9	1.8 x 1.3	1.4 x 1.1	1.3 x 1.0	0.96 x 0.72	64	□
T45/4.0L	-4 : 1	3.8 x 3.8	3.2 x 2.4	2.2 x 1.7	1.8 x 1.4	1.6 x 1.2	1.2 x 0.9	67	□
T45/2.0L	-2 : 1	7.6 x 7.6	6.4 x 4.8	4.4 x 3.3	3.6 x 2.7	3.2 x 2.4	2.4 x 1.8	77	□
T51/1.7	-1.73 : 1	8.8 x 8.8	7.4 x 5.6	5.1 x 3.8	4.1 x 3.1	3.7 x 2.8	2.8 x 2.1	49	■
T51/1.4	-1.4 : 1			6.3 x 4.8	5.1 x 3.9	4.6 x 3.5	3.5 x 2.6	26	■
T51/1.2	-1.2 : 1			7.3 x 5.5	5.9 x 4.5	5.3 x 4.0	4.0 x 3.0	33	■
T51/1.0	-1 : 1				7.1 x 5.4	6.4 x 4.8	4.8 x 3.6	41	■
T51/0.8	-1 : 1.22				8.7 x 6.6	7.9 x 5.9	5.9 x 4.4	52	■
T51/0.7	-1 : 1.47				10.4 x 7.9	9.4 x 7.1	7.1 x 5.3	63	■
T80/1.0L	-1 : 0.99			8.9 x 6.7	7.0 x 5.4	6.5 x 4.9	4.9 x 3.6	115	□
TELECENTRIC MEASURING LENSES									
T100/0.7	-1 : 1.37			12.1 x 9.0	9.7 x 7.4	8.7 x 6.6	6.6 x 4.9	41	■
T100/0.6	-1 : 1.82			16.0 x 12.0	12.9 x 9.8	11.6 x 8.7	8.7 x 6.5	77	■
T100/0.48	-1 : 2.08			18.3 x 13.7	14.8 x 11.2	13.3 x 10.0	10.0 x 7.5	103	■
T100/0.39	-1 : 2.57				18.3 x 13.9	16.4 x 12.3	12.3 x 9.3	33	■
T100/0.36	-1 : 2.76				19.6 x 14.9	17.6 x 13.2	13.2 x 9.9	72	■
T107/0.83	-1 : 1.2	18.2 x 18.2	15.4 x 11.6	10.6 x 7.9	8.5 x 6.5	7.7 x 5.8	5.8 x 4.3	100	■
T107/0.39	-1 : 2.56			22.5 x 16.9	18.2 x 13.8	16.4 x 12.3	12.3 x 9.2	115	■
T107/0.36	-1 : 2.75			24.2 x 18.2	19.5 x 14.9	17.6 x 13.2	13.2 x 9.9	93	■
T107/0.33	-1 : 3.12			27.5 x 20.6	22.2 x 16.9	20.0 x 15.0	15.0 x 11.2	86	■
T107/0.25L	-1 : 3.72				26.4 x 20.1	23.8 x 17.9	17.9 x 13.4	105	■
T107/0.25	-1 : 4.05				28.8 x 21.9	26.0 x 19.5	19.5 x 14.6	83	■
T107/0.2	-1 : 5.02						24.1 x 18.1	56	■
T107/0.2A	-1 : 5.11						24.5 x 18.4	82	■
T125/0.7L	-1 : 1.41			12.4 x 9.3	10.0 x 7.6	9.0 x 6.8	6.8 x 5.1	197	□
T150/0.25	-1 : 4.16			36.6 x 27.4	29.5 x 22.5	26.6 x 20.0	20.0 x 15.0	102	■
T150/0.24L	-1 : 4.16			36.6 x 27.4	29.5 x 22.5	26.6 x 20.0	15.0 x 11.2	156	■
T150/0.19L	-1 : 5.34				37.9 x 28.8	34.2 x 25.6	25.6 x 19.2	302	■
T150/0.19	-1 : 5.35				38.0 x 28.9	34.2 x 25.7	25.7 x 19.3	112	■
T150/0.17L	-1 : 5.91					37.8 x 28.4	28.4 x 21.3	287	■
T150/0.14	-1 : 7.23						34.7 x 26.0	71	■
T151/0.44	-1 : 2.30	35.0 x 35.0	29.5 x 22.1	20.3 x 15.2	16.3 x 12.4	14.7 x 11.0	11.0 x 8.3	200	■
T151/0.39	-1 : 2.54		32.5 x 24.4	22.3 x 16.8	18.0 x 13.7	16.3 x 12.2	12.2 x 9.1	223	■

■ available □ not available

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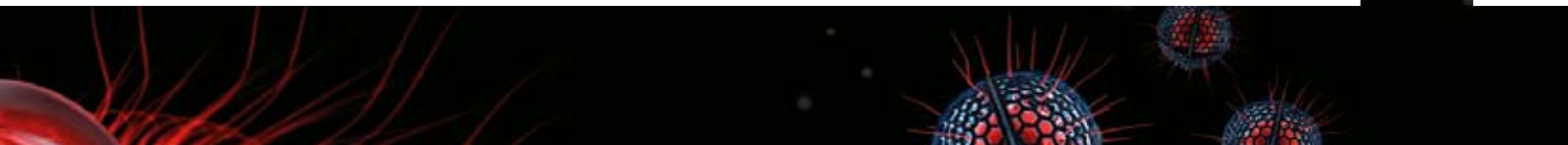
LENS TYPE	IMAGE SCALE	FIELD OF VIEW [mm²]						WORKING DISTANCE [mm]	APERTURE ADJUSTABLE
		1.2"	1"	2 / 3"	1 / 1.8"	1 / 2"	1 / 3"		
		15.2 x 15.2 mm²	12.8 x 9.6 mm²	8.8 x 6.6 mm²	7.1 x 5.4 mm²	6.4 x 4.8 mm²	4.8 x 3.6 mm²		
TELECENTRIC MEASURING LENSES									
T152/0.36	-1: 2.78		35.6 x 26.7	24.5 x 18.3	19.7 x 15.0	17.8 x 13.3	13.3 x 10.0	110	■
T151/0.30	-1: 3.27			28.8 x 21.6	23.2 x 17.7	20.9 x 15.7	15.7 x 11.8	185	■
T151/0.26 L	-1: 3.88				27.5 x 21.0	24.8 x 18.6	18.6 x 14.0	277	■
T201/0.42	-1: 2.39	36.3 x 36.3	30.6 x 23.0	21.0 x 15.8	17.0 x 12.9	15.3 x 11.5	11.5 x 8.6	210	■
T201/0.30	-1: 3.25		42.0 x 31.5	28.9 x 21.7	23.1 x 17.6	21.0 x 15.8	15.8 x 11.8	157	■
T201/0.28 L	-1: 3.50			31.1 x 23.4	24.9 x 18.9	22.7 x 17.0	17.0 x 12.7	278	■
T201/0.26	-1: 3.81			33.9 x 25.4	27.1 x 20.6	24.6 x 18.5	18.5 x 13.8	130	■
T201/0.19	-1: 5.13			45.6 x 34.2	36.4 x 27.7	33.2 x 24.9	24.9 x 18.6	143	■
T201/0.19 L	-1: 7.23				36.9 x 28.0	33.6 x 25.2	25.2 x 18.9	284	■
T201/0.15	-1: 6.71				47.6 x 36.2	43.5 x 32.7	32.6 x 24.5	136	■
T201/0.13 L	-1: 7.43						36.1 x 27.1	273	■
T201/0.12	-1: 8.47						41.4 x 31.0	135	■
T240/0.27	-1: 3.69	56 x 56	47 x 36	33 x 24	26 x 20	24 x 18	18 x 13	283	■
T240/0.18	-1: 5.67		73 x 54	50 x 37	40 x 31	36 x 27	27 x 20	194	■
T240/0.13	-1: 7.76			68 x 51	55 x 42	50 x 37	37 x 28	208	■
T240/0.10	-1: 9.87				70 x 53	63 x 47	47 x 35	188	■
T240/0.08	-1: 12.7						61 x 46	184	■
T360/0.19	-1: 5.3	81 x 81	68 x 51	47 x 35	38 x 29	34 x 26	26 x 19	350	■
T360/0.13	-1: 7.77		100 x 75	68 x 51	55 x 42	50 x 37	37 x 28	194	■
T360/0.09	-1: 11.4			101 x 75	81 x 62	73 x 55	55 x 41	254	■
T360/0.07	-1: 13.9				99 x 75	89 x 67	67 x 50	194	■
TELECENTRIC WIDEFIELD LENSES									
TL250/0.03	-1: 38						182 x 137	220	■
TL371/0.03	-1: 31 ...			273 x 205 ...	220 x 167 ...	198 x 149 ...		50 ...	■
	-1: 34			300 x 244	241 x 184	218 x 163		1000	
TL380/0.04	-1: 24 ...		306 x 230 ...	211 x 158 ...	170 x 130 ...			100 ...	■
	-1: 26		339 x 254	229 x 172	185 x 140			750	

■ available □ not available

vicotar® Optics – Accessories

LENS TYPE	TELECENTRIC LIGHT TYPE	LENS HOLDER	BEAM DEFLECTION		COAXIAL LIGHTING ADAPTER (DIFFUSE)		COAXIAL LIGHTING ADAPTER (TELECENTRIC)		FILTER THREAD	
			PSO type	Working distance [mm]	Adapter type	Working distance [mm]	Adapter type	Working distance [mm]	Object side	Camera side
ENLARGING TELECENTRIC LENSES										
10 x	TZB10	OH35,5	PSO90-10	33	□	□	□	□	Filter with socket joint d=35,5 mm	□
5 x	TZB10	OH34	PSO90-45	47	ABE 3328-45	17	□	□	Filter with socket joint d=34 mm	□
3 x	TZB10	OH34	PSO90-45	59	ABE 3328-45	28,5	□	□		□
1 x	TZB10	OH34	PSO90-45	62	ABE 3328-45	32	□	□		□
T10/9.7L	TZB10	OH35,5	PSO90-10	31	□	□	□	□	Filter with socket joint d=35,5 mm	□
T10/7.4L	TZB10	OH35,5	PSO90-10	32	□	□	□	□	Filter with socket joint d=35,5 mm	□
T24/3.0a	TZB10	OH32	□	□	□	□	□	□	□	M 20,5 x 0,5
T24/2.5a	TZB10	OH32	□	□	□	□	□	□	□	M 20,5 x 0,5
T24/2.0a	TZB10	OH32	□	□	□	□	□	□	□	M 20,5 x 0,5
T24/1.5a	TZB10	OH32	□	□	□	□	□	□	□	M 20,5 x 0,5
T42/1.4	TZB10	OH34	PSO90-45	85	ABE3328-45	55	□	□	□	□
T43/1.4	TZB10	OH34	PSO90-45	85	ABE3328-45	55	□	□	Filter with socket joint d=34 mm	□
T45/5.0L	TZB10	OH34	PSO90-45	47	ABE3328-45	17	□	□		□
T45/4.0L	TZB10	OH34	PSO90-45	50	ABE3328-45	22	□	□		□
T45/2.0L	TZB10	OH34	PSO90-45	60	ABE3328-45	30	□	□	□	□
T51/1.7	TZB30	OH32	PSO90-100	33	ABE3328-100	12	□	□	M 26 x 0,5	M 20,5 x 0,5
T51/1.4	TZB10	OH32	PSO90-100	9	□	□	□	□	M 26 x 0,5	M 20,5 x 0,5
T51/1.2	TZB10	OH32	PSO90-100	16	□	□	□	□	M 26 x 0,5	M 20,5 x 0,5
T51/1.0	TZB10	OH32	PSO90-100	24	□	□	□	□	M 26 x 0,5	M 20,5 x 0,5
T51/0.8	TZB30	OH32	PSO90-100	35	ABE3328-100	15	□	□	M 26 x 0,5	M 20,5 x 0,5
T51/0.7	TZB30	OH32	PSO90-100	46	ABE3328-100	27	ABE-TZB30-100	17	M 26 x 0,5	M 20,5 x 0,5
T80/1.0L	TZB30	OH25	PSO90-80	98	ABE3328-80	77	□	□	M 19 x 0,5	□

□ not available



vicotar® Optics – Accessories

LENS TYPE	TELECENTRIC LIGHT TYPE	LENS HOLDER	BEAM DEFLECTION		COAXIAL LIGHTING ADAPTER (DIFFUSE)		COAXIAL LIGHTING ADAPTER (TELECENTRIC)		FILTER THREAD	
			PSO type	Working distance [mm]	Adapter type	Working distance [mm]	Adapter type	Working distance [mm]	Object side	Camera side
TELECENTRIC MEASURING LENSES										
T100/0.7	TZB30	OH32	PSO90-100	24	□	□	□	□	M 26 x 0.5	M 20.5 x 0.5
T100/0.6	TZB30	OH32	PSO90-100	60	ABE3328-100	41	ABE-TZB30-100	31	M 26 x 0.5	M 20.5 x 0.5
T100/0.48	TZB30	OH32	PSO90-100	86	ABE3328-100	68	ABE-TZB30-100	58	M 26 x 0.5	M 20.5 x 0.5
T100/0.39	TZB30	OH32	PSO90-100	16	□	□	□	□	M 26 x 0.5	M 20.5 x 0.5
T100/0.36	TZB30	OH32	PSO90-100	55	ABE3328-100	37	ABE-TZB30-100	27	M 26 x 0.5	M 20.5 x 0.5
T107/0.83	TZB30	OH32	PSO90-107	78	ABE3328-107	54	ABE-TZB30-100	54	M 39 x 0.5	□
T107/0.39	TZB30	OH32	PSO90-107	93	ABE3328-107	70	ABE-TZB30-107	70	M 39 x 0.5	M 20.5 x 0.5
T107/0.36	TZB51	OH32	PSO90-107	71	ABE3328-107	47	ABE-TZB30-107	47	M 39 x 0.5	M 20.5 x 0.5
T107/0.33	TZB51	OH32	PSO90-107	64	ABE3328-107	40	ABE-TZB30-107	40	M 39 x 0.5	M 20.5 x 0.5
T107/0.25 L	TZB51	OH32	PSO90-107	83	ABE3328-107	59	ABE-TZB30-107	59	M 39 x 0.5	□
T107/0.25	TZB51	OH32	PSO90-107	61	ABE3328-107	27	ABE-TZB30-107	27	M 39 x 0.5	□
T107/0.2	TZB51	OH32	PSO90-107	34	□	□	□	□	M 39 x 0.5	□
T107/0.2 A	TZB51	OH32	PSO90-107	60	ABE3328-107	29	ABE-TZB30-107	28	M 39 x 0.5	□
T125/0.7 L	TZB30	OH32	PSO90-100	180	ABE3328-100	160	ABE-TZB30-100	150	M 26 x 0.5	□
T150/0.25	TZB51	OH150/200	PSO90-150	73	ABE3328-150	30	□	□	M 52 x 0.75	M 20.5 x 0.5
T150/0.24 L	TZB51	OH150/200	PSO90-150	127	ABE3328-150	86	□	□	M 52 x 0.75	M 20.5 x 0.5
T150/0.19 L	TZB51	OH150/200	PSO90-150	273	ABE3328-150	230	□	□	M 52 x 0.75	□
T150/0.19	TZB51	OH150/200	PSO90-150	83	ABE3328-150	44	□	□	M 52 x 0.75	M 20.5 x 0.5
T150/0.17 L	TZB51	OH150/200	PSO90-150	258	ABE3328-150	230	□	□	M 52 x 0.75	□
T150/0.14	TZB51	OH150/200	PSO90-150	42	□	□	□	□	M 52 x 0.75	□
T151/0.44	TZB51	OH150/200	PSO90-150	171	ABE3328-150	128	□	□	M 52 x 0.75	□
T151/0.39	TZB51	OH150/200	PSO90-150	194	ABE3328-150	150	□	□	M 52 x 0.75	M 20.5 x 0.5
T152/0.36	TZB51	OH150/200	PSO90-150	81	ABE3328-150	40	□	□	M 52 x 0.75	M 20.5 x 0.5
T151/0.30	TZB51	OH150/200	PSO90-150	156	ABE3328-150	115	□	□	M 52 x 0.75	M 20.5 x 0.5
T151/0.26 L	TZB51	OH150/200	PSO90-150	248	ABE3328-150	207	□	□	M 52 x 0.75	M 20.5 x 0.5
T201/0.42	TZB60	OH150/200	PSO90-200	118	□	□	ABE-TZB60-200	115	M 67 x 0.75	M 20.5 x 0.5
T201/0.30	TZB60	OH150/200	PSO90-200	65	□	□	ABE-TZB60-200	61	M 67 x 0.75	□
T201/0.28 L	TZB60	OH150/200	PSO90-200	186	□	□	ABE-TZB60-200	179	M 67 x 0.75	M 20.5 x 0.5
T201/0.26	TZB60	OH150/200	PSO90-200	38	□	□	ABE-TZB60-200	35	M 67 x 0.75	M 20.5 x 0.5
T201/0.19	TZB60	OH150/200	PSO90-200	51	□	□	ABE-TZB60-200	48	M 67 x 0.75	M 20.5 x 0.5
T201/0.19 L	TZB60	OH150/200	PSO90-200	192	□	□	ABE-TZB60-200	189	M 67 x 0.75	□
T201/0.15	TZB60	OH150/200	PSO90-200	44	□	□	ABE-TZB60-200	41	M 67 x 0.75	M 20.5 x 0.5
T201/0.13 L	TZB60	OH150/200	PSO90-200	181	□	□	ABE-TZB60-200	196	M 67 x 0.75	M 20.5 x 0.5
T201/0.12	TZB60	OH150/200	PSO90-200	43	□	□	ABE-TZB60-200	41	M 67 x 0.75	□
T240/0.27	TZB95	OHM-240/OH240	□	□	□	□	□	□	M 100 x 1.0	M 20.5 x 0.5
T240/0.18	TZB95	OHM-240/OH240	□	□	□	□	□	□	M 100 x 1.0	M 20.5 x 0.5
T240/0.13	TZB95	OHM-240/OH240	□	□	□	□	□	□	M 100 x 1.0	M 20.5 x 0.5
T240/0.10	TZB95	OHM-240/OH240	□	□	□	□	□	□	M 100 x 1.0	□
T240/0.08	TZB95	OHM-240/OH240	□	□	□	□	□	□	M 100 x 1.0	□
T360/0.19	TZB130	OHM360	□	□	□	□	□	□	M 144 x 0.75	M 20.5 x 0.5
T360/0.13	TZB130	OHM360	□	□	□	□	□	□	M 144 x 0.75	M 20.5 x 0.5
T360/0.09	TZB130	OHM360	□	□	□	□	□	□	M 144 x 0.75	M 20.5 x 0.5
T360/0.07	TZB130	OHM360	□	□	□	□	□	□	M 144 x 0.75	□

□ not available