

## OVERVIEW VICOTAR® TELECENTRIC LENSES

On the following pages you will find an overview of our telecentric lenses with information on image scale, field of view, working distance and aperture.

For detailed information about the lenses, click on the respective lens type. You will be redirected to the corresponding product detail page.

### ... BI-TELECENTRIC MEASURING LENSES, PIXEL CLASS 9 MP

LENS TYPE	ORDER NUMBER	IMAGE SCALE	MAX. OBJECT FIELD DIAMETER	FIELD OF VIEW (in mm <sup>2</sup> ) FOR						WORKING DISTANCE (mm)	CAMERA DISTANCE (mm)	APERTURE
				1"	2/3"	1/1.8"	1/2"	1/3"	1/4"			
				12.8 x 9.6 mm <sup>2</sup>	8.8 x 6.6 mm <sup>2</sup>	7.1 x 5.4 mm <sup>2</sup>	6.4 x 4.8 mm <sup>2</sup>	4.8 x 3.6 mm <sup>2</sup>	3.4 x 2.2 mm <sup>2</sup>			
<a href="#">TOB11/11.0-80-V-WN</a>	2-05-500	1	11.0		8.8 x 6.6	7.1 x 5.4	6.4 x 4.8	4.8 x 3.6	3.4 x 2.2	80	197.0	F6 – F22
<a href="#">TOB11/11.0-70-V-WN</a>	2-05-501	1	11.0		8.8 x 6.6	7.1 x 5.4	6.4 x 4.8	4.8 x 3.6	3.4 x 2.2	70	197.0	F6 – F22
<a href="#">TOB11/11.0-60-V-WN</a>	2-05-502	1	11.0		8.8 x 6.6	7.1 x 5.4	6.4 x 4.8	4.8 x 3.6	3.4 x 2.2	60	197.0	F6 – F22
<a href="#">TOB11/11.0-80-F6-WN</a>	2-05-503	1	11.0		8.8 x 6.6	7.1 x 5.4	6.4 x 4.8	4.8 x 3.6	3.4 x 2.2	80	197.0	F6
<a href="#">TOB11/11.0-70-F6-WN</a>	2-05-504	1	11.0		8.8 x 6.6	7.1 x 5.4	6.4 x 4.8	4.8 x 3.6	3.4 x 2.2	70	197.0	F6
<a href="#">TOB11/11.0-60-F6-WN</a>	2-05-505	1	11.0		8.8 x 6.6	7.1 x 5.4	6.4 x 4.8	4.8 x 3.6	3.4 x 2.2	60	197.0	F6
<a href="#">TOB11/11.0-80-F10-WN</a>	2-05-506	1	11.0		8.8 x 6.6	7.1 x 5.4	6.4 x 4.8	4.8 x 3.6	3.4 x 2.2	80	197.0	F10
<a href="#">TOB11/11.0-70-F10-WN</a>	2-05-507	1	11.0		8.8 x 6.6	7.1 x 5.4	6.4 x 4.8	4.8 x 3.6	3.4 x 2.2	70	197.0	F10
<a href="#">TOB11/11.0-60-F10-WN</a>	2-05-508	1	11.0		8.8 x 6.6	7.1 x 5.4	6.4 x 4.8	4.8 x 3.6	3.4 x 2.2	60	197.0	F10
<a href="#">TOB22/11.0-120-V-WN</a>	2-05-515	0.5	22.0		17.6 x 13.2	14.2 x 10.8	12.8 x 9.6	9.6 x 7.2	6.8 x 4.4	120	272.5	F6 – F22
<a href="#">TOB22/11.0-100-V-WN</a>	2-05-516	0.5	22.0		17.6 x 13.2	14.2 x 10.8	12.8 x 9.6	9.6 x 7.2	6.8 x 4.4	100	257.5	F6 – F22

LENS TYPE	ORDER NUMBER	IMAG E SCALE	MAX. OBJECT FIELD DIA-METER	FIELD OF VIEW (in mm <sup>2</sup> ) FOR						WORKING DISTANCE (mm)	CAMERA DISTANCE (mm)	APERTUR E
				1"	2/3"	1 / 1.8"	1/2"	1/3"	1/4"			
				12.8 x 9.6 mm <sup>2</sup>	8.8 x 6.6 mm <sup>2</sup>	7.1 x 5.4 mm <sup>2</sup>	6.4 x 4.8 mm <sup>2</sup>	4.8 x 3.6 mm <sup>2</sup>	3.4 x 2.2 mm <sup>2</sup>			
<a href="#">TOB22/11.0-80-V-WN</a>	2-05-517	0.5	22.0		17.6 x 13.2	14.2 x 10.8	12.8 x 9.6	9.6 x 7.2	6.8 x 4.4	80	242.5	F6 – F22
<a href="#">TOB22/11.0-60-V-WN</a>	2-05-518	0.5	22.0		17.6 x 13.2	14.2 x 10.8	12.8 x 9.6	9.6 x 7.2	6.8 x 4.4	60	227.5	F6 – F22
<a href="#">TOB22/11.0-50-V-WN</a>	2-05-519	0.5	22.0		17.6 x 13.2	14.2 x 10.8	12.8 x 9.6	9.6 x 7.2	6.8 x 4.4	50	220.5	F6 – F22
<a href="#">TOB22/11.0-120-F6-WN</a>	2-05-520	0.5	22.0		17.6 x 13.2	14.2 x 10.8	12.8 x 9.6	9.6 x 7.2	6.8 x 4.4	120	272.5	F6
<a href="#">TOB22/11.0-100-F6-WN</a>	2-05-521	0.5	22.0		17.6 x 13.2	14.2 x 10.8	12.8 x 9.6	9.6 x 7.2	6.8 x 4.4	100	257.5	F6
<a href="#">TOB22/11.0-80-F6-WN</a>	2-05-522	0.5	22.0		17.6 x 13.2	14.2 x 10.8	12.8 x 9.6	9.6 x 7.2	6.8 x 4.4	80	242.5	F6
<a href="#">TOB22/11.0-60-F6-WN</a>	2-05-523	0.5	22.0		17.6 x 13.2	14.2 x 10.8	12.8 x 9.6	9.6 x 7.2	6.8 x 4.4	60	227.5	F6
<a href="#">TOB22/11.0-50-F6-WN</a>	2-05-524	0.5	22.0		17.6 x 13.2	14.2 x 10.8	12.8 x 9.6	9.6 x 7.2	6.8 x 4.4	50	220.5	F6
<a href="#">TOB22/11.0-120-F10-WN</a>	2-05-525	0.5	22.0		17.6 x 13.2	14.2 x 10.8	12.8 x 9.6	9.6 x 7.2	6.8 x 4.4	120	272.5	F10
<a href="#">TOB22/11.0-100-F10-WN</a>	2-05-526	0.5	22.0		17.6 x 13.2	14.2 x 10.8	12.8 x 9.6	9.6 x 7.2	6.8 x 4.4	100	257.5	F10
<a href="#">TOB22/11.0-80-F10-WN</a>	2-05-527	0.5	22.0		17.6 x 13.2	14.2 x 10.8	12.8 x 9.6	9.6 x 7.2	6.8 x 4.4	80	242.5	F10
<a href="#">TOB22/11.0-60-F10-WN</a>	2-05-528	0.5	22.0		17.6 x 13.2	14.2 x 10.8	12.8 x 9.6	9.6 x 7.2	6.8 x 4.4	60	227.5	F10
<a href="#">TOB22/11.0-50-F10-WN</a>	2-05-529	0.5	22.0		17.6 x 13.2	14.2 x 10.8	12.8 x 9.6	9.6 x 7.2	6.8 x 4.4	50	220.5	F10
<a href="#">TOB42/11.0-185-V-WN</a>	2-05-600	0.26	42.0		33.5 x 25.1	27.0 x 20.6	24.4 x 18.3	18.3 x 13.7	12.9 x 8.3	185	417.0	F6 – F22
<a href="#">TOB42/11.0-165-V-WN</a>	2-05-601	0.26	42.0		33.5 x 25.1	27.0 x 20.6	24.4 x 18.3	18.3 x 13.7	12.9 x 8.3	165	398.5	F6 – F22
<a href="#">TOB42/11.0-145-V-WN</a>	2-05-602	0.26	42.0		33.5 x 25.1	27.0 x 20.6	24.4 x 18.3	18.3 x 13.7	12.9 x 8.3	145	379.5	F6 – F22
<a href="#">TOB42/11.0-185-F16-WN</a>	2-05-603	0.26	42.0		33.5 x 25.1	27.0 x 20.6	24.4 x 18.3	18.3 x 13.7	12.9 x 8.3	185	417.0	F16
<a href="#">TOB42/11.0-165-F16-WN</a>	2-05-604	0.26	42.0		33.5 x 25.1	27.0 x 20.6	24.4 x 18.3	18.3 x 13.7	12.9 x 8.3	165	398.5	F16
<a href="#">TOB42/11.0-145-F16-WN</a>	2-05-605	0.26	42.0		33.5 x 25.1	27.0 x 20.6	24.4 x 18.3	18.3 x 13.7	12.9 x 8.3	145	379.5	F16
<a href="#">TOB42/11.0-185-F10-WN</a>	2-05-606	0.26	42.0		33.5 x 25.1	27.0 x 20.6	24.4 x 18.3	18.3 x 13.7	12.9 x 8.3	185	417.0	F10
<a href="#">TOB42/11.0-165-F10-WN</a>	2-05-607	0.26	42.0		33.5 x 25.1	27.0 x 20.6	24.4 x 18.3	18.3 x 13.7	12.9 x 8.3	165	398.5	F10
<a href="#">TOB42/11.0-145-F10-WN</a>	2-05-608	0.26	42.0		33.5 x 25.1	27.0 x 20.6	24.4 x 18.3	18.3 x 13.7	12.9 x 8.3	145	379.5	F10

... BLUE VISION TELECENTRIC MEASURING LENSES. PIXEL CLASS 9 MP

LENS TYPE	ORDER NUMBER	IMAGE SCALE	MAX. OBJECT FIELD DIAMETER	FIELD OF VIEW (in mm <sup>2</sup> ) FOR						WORKING DISTANCE (mm)	CAMERA DISTANCE (mm)	APERTURE
				1"	2/3"	1/1.8"	1/2"	1/3"	1/4"			
				12.8 x 9.6 mm <sup>2</sup>	8.8 x 6.6 mm <sup>2</sup>	7.1 x 5.4 mm <sup>2</sup>	6.4 x 4.8 mm <sup>2</sup>	4.8 x 3.6 mm <sup>2</sup>	3.4 x 2.2 mm <sup>2</sup>			
<a href="#">TO18/4.1-100-V-BW</a>	2-05-535	0.232	18.0						14.7 x 9.5	100	157.0	F6 - F22
<a href="#">TO18/6.0-95-V-BW</a>	2-05-536	0.334	18.0					14.4 x 10.8	10.2 x 6.6	95	158.5	F8 - F22
<a href="#">TO18/9.0-85-V-BW</a>	2-05-537	0.5	18.0			14.2 x 10.8	12.8 x 9.6	9.6 x 7.2	6.8 x 4.4	85	160.0	F8 - F22
<a href="#">TO18/11.0-80-V-BW</a>	2-05-538	0.616	18.0		14.3 x 10.7	11.5 x 8.8	10.4 x 7.8	7.8 x 5.8	5.5 x 3.6	80	162.5	F10 - F22
<a href="#">TO18/4.1-100-F6-BW-RF</a>	2-05-539	0.232	18.0						14.7 x 9.5	100	157.0	F6
<a href="#">TO18/6.0-95-F8-BW-RF</a>	2-05-540	0.334	18.0					14.4 x 10.8	10.2 x 6.6	95	158.5	F8
<a href="#">TO18/9.0-85-F10-BW-RF</a>	2-05-541	0.5	18.0			14.2 x 10.8	12.8 x 9.6	9.6 x 7.2	6.8 x 4.4	85	160.0	F10
<a href="#">TO18/11.0-80-F10-BW-RF</a>	2-05-542	0.616	18.0		14.3 x 10.7	11.5 x 8.8	10.4 x 7.8	7.8 x 5.8	5.5 x 3.6	80	162.5	F10
<a href="#">TO18/4.1-100-F14-BW-RF</a>	2-05-543	0.232	18.0						14.7 x 9.5	100	157.0	F14
<a href="#">TO18/6.0-95-F14-BW-RF</a>	2-05-544	0.334	18.0					14.4 x 10.8	10.2 x 6.6	95	158.5	F14
<a href="#">TO18/9.0-85-F14-BW-RF</a>	2-05-545	0.5	18.0			14.2 x 10.8	12.8 x 9.6	9.6 x 7.2	6.8 x 4.4	85	160.0	F14
<a href="#">TO18/11.0-80-F14-BW-RF</a>	2-05-546	0.616	18.0		14.3 x 10.7	11.5 x 8.8	10.4 x 7.8	7.8 x 5.8	5.5 x 3.6	80	162.5	F14
<a href="#">TO30/4.3-100-V-BW</a>	2-05-547	0.144	30.0						23.6 x 15.3	100	192.0	F8 - F22
<a href="#">TO30/6.0-100-V-BW</a>	2-05-548	0.202	30.0					23.8 x 17.8	16.8 x 10.9	100	197.5	F8 - F22
<a href="#">TO30/9.1-85-V-BW</a>	2-05-549	0.307	30.0			23.1 x 17.6	20.8 x 15.6	15.6 x 11.7	11.1 x 7.2	85	190.5	F8 - F22
<a href="#">TO30/11.1-80-V-BW</a>	2-05-550	0.374	30.0		23.5 x 17.6	19.0 x 14.4	17.1 x 12.8	12.8 x 9.6	9.1 x 5.9	80	190.5	F10 - F22
<a href="#">TO30/4.3-100-F8-BW-RF</a>	2-05-551	0.144	30.0						23.6 x 15.3	100	192.0	F8
<a href="#">TO30/6.0-100-F10-BW-RF</a>	2-05-552	0.202	30.0					23.8 x 17.8	16.8 x 10.9	100	197.5	F10
<a href="#">TO30/9.1-85-F10-BW-RF</a>	2-05-553	0.307	30.0			23.1 x 17.6	20.8 x 15.6	15.6 x 11.7	11.1 x 7.2	85	190.5	F10
<a href="#">TO30/11.1-80-F10-BW-RF</a>	2-05-554	0.374	30.0		23.5 x 17.6	19.0 x 14.4	17.1 x 12.8	12.8 x 9.6	9.1 x 5.9	80	190.5	F10
<a href="#">TO30/4.3-100-F14-BW-RF</a>	2-05-555	0.144	30.0						23.6 x 15.3	100	192.0	F14
<a href="#">TO30/6.0-100-F14-BW-RF</a>	2-05-556	0.202	30.0					23.8 x 17.8	16.8 x 10.9	100	197.5	F14
<a href="#">TO30/9.1-85-F14-BW-RF</a>	2-05-557	0.307	30.0			23.1 x 17.6	20.8 x 15.6	15.6 x 11.7	11.1 x 7.2	85	190.5	F14
<a href="#">TO30/11.1-80-F14-BW-RF</a>	2-05-558	0.374	30.0		23.5 x 17.6	19.0 x 14.4	17.1 x 12.8	12.8 x 9.6	9.1 x 5.9	80	190.5	F14

LENS TYPE	ORDER NUMBER	IMAG E SCALE	MAX. OBJECT FIELD DI-AMETER	FIELD OF VIEW (in mm²) FOR							WORK-ING DIS-TANCE (mm)	CAMERA DIS-TANCE (mm)	APERTU RE		
				Typ 35 mm	Typ DX	Typ 4/3   1,2"	1"	2/3"	1/1.8"	1/2"				1/3"	1/4"
				36.0 x 24.0 mm²	23.7 x 15.6 mm²	17.3 x 13.0 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	3.4 x 2.2 mm²
<a href="#">TO42/16.0-120-V-BW</a>	2-05-624	0.380	42.0				33.7 x 25.3	23.2 x 17.4	18.7 x 14.2	16.8 x 12.6	12.6 x 9.5	8.9 x 5.8	120	308.1	F8-F22
<a href="#">TO42/21.4-120-V-BW</a>	2-05-626	0.510	42.0			33.9 x 25.5	25.1 x 18.8	17.3 x 12.9	13.9 x 10.6	12.5 x 9.4	9.4 x 7.1	6.7 x 4.3	120	330.0	F8-F22
<a href="#">TO42/28.3-100-V-BW*</a>	2-05-627	0.674	42.0		35.2 x 23.1	25.7 x 19.3	19.0 x 14.2	13.1 x 9.8	10.5 x 8.0	9.5 x 7.1	7.1 x 5.3	5.0 x 3.3	100	308.0	F10-F22
<a href="#">TO44/6.2-150-V-BW</a>	2-05-621	0.140	44.0								34.3 x 25.7	24.3 x 15.7	150	332.0	F6-F22
<a href="#">TO44/8.8-110-V-BW</a>	2-05-622	0.200	44.0					35.5 x 27.0	32.0 x 24.0	24.0 x 18.0	17.0 x 11.0		110	291.4	F6-F22
<a href="#">TO44/11.0-110-V-BW</a>	2-05-623	0.250	44.0				35.2 x 26.4	28.4 x 21.6	25.6 x 19.2	19.2 x 14.4	13.6 x 8.8		110	311.2	F8-F22
<a href="#">TO66/6.0-240-V-BW</a>	2-05-682	0.091	66.0								52.7 x 39.6	37.4 x 24.2	240	412.5	F6-F22
<a href="#">TO66/9.0-210-V-BW</a>	2-05-683	0.137	66.0					51.8 x 39.4	46.7 x 35.0	35.0 x 26.3	24.8 x 16.1		210	394.4	F8-F22
<a href="#">TO66/11.0-200-V-BW</a>	2-05-684	0.167	66.0					52.7 x 39.5	42.5 x 32.3	38.3 x 28.7	28.7 x 21.6	20.4 x 13.2	200	389.7	F8-F22
<a href="#">TO66/16.0-160-V-BW</a>	2-05-685	0.242	66.0				52.9 x 39.7	36.4 x 27.3	29.3 x 22.3	26.4 x 19.8	19.8 x 14.9	14.0 x 9.1	160	362.2	F8-F22
<a href="#">TO66/21.3-130-V-BW</a>	2-05-686	0.321	66.0			53.9 x 40.5	39.9 x 29.9	27.4 x 20.6	22.1 x 16.8	19.9 x 15.0	15.0 x 11.2	10.6 x 6.9	130	345.0	F8-F22
<a href="#">TO66/28.5-120-V-BW*</a>	2-05-687	0.431	66.0		55.0 x 36.2	40.1 x 30.2	29.7 x 22.3	20.4 x 15.3	16.5 x 12.5	14.8 x 11.1	11.1 x 8.4	7.9 x 5.1	120	324.7	F10-F22
<a href="#">TO88/6.0-290-V-BW</a>	2-05-810	0.069	88.0								69.6 x 52.2	49.3 x 31.9	290	495.0	F6-F22
<a href="#">TO88/9.0-155-V-BW</a>	2-05-811	0.103	88.0						68.9 x 52.4	62.1 x 46.6	46.6 x 35.0	33.0 x 21.4	155	360.9	F8-F22
<a href="#">TO88/11.0-140-V-BW</a>	2-05-812	0.125	88.0					70.4 x 52.8	56.8 x 43.2	51.2 x 38.4	38.4 x 28.8	27.2 x 17.6	140	345.9	F6-F22
<a href="#">TO88/16.0-130-V-BW</a>	2-05-813	0.182	88.0				70.3 x 52.7	48.4 x 36.3	39.0 x 29.7	35.2 x 26.4	26.4 x 19.8	18.7 x 12.1	130	354.9	F8-F22
<a href="#">TO88/21.5-140-V-BW</a>	2-05-814	0.244	88.0		70.9 x 53.3		52.5 x 39.3	36.1 x 27.0	29.1 x 22.1	26.2 x 19.7	19.7 x 14.8	13.9 x 9.0	140	377.1	F8-F22
<a href="#">TO88/28.4-130-V-BW*</a>	2-05-815	0.322	88.0		73.6 x 48.4	53.7 x 40.4	39.8 x 29.8	27.3 x 20.5	22.0 x 16.8	19.9 x 14.9	14.9 x 11.2	10.6 x 6.8	130	357.8	F10-F22
<a href="#">TO125/6.0-310-V-BW</a>	2-05-850	0.049	125.0								98.0 x 73.5	69.4 x 44.9	310	600.0	F6-F22
<a href="#">TO125/9.0-220-V-BW</a>	2-05-851	0.072	125.0						98.6 x 75.0	88.9 x 66.7	66.7 x 50.0	47.2 x 30.6	220	515.0	F6-F22
<a href="#">TO125/11.0-200-V-BW</a>	2-05-852	0.088	125.0					100.0 x 75.0	80.7 x 61.4	72.7 x 54.5	54.5 x 40.9	38.6 x 25.0	200	515.0	F6-F22
<a href="#">TO125/16.0-190-V-BW</a>	2-05-853	0.128	125.0				100.0 x 75.0	68.8 x 51.6	55.5 x 42.2	50.0 x 37.5	37.5 x 28.1	26.6 x 17.2	190	515.0	F6-F22
<a href="#">TO125/21.4-190-V-BW</a>	2-05-854	0.171	125.0			101.2 x 76.0	74.9 x 56.1	51.5 x 38.6	41.5 x 31.6	37.4 x 28.1	28.1 x 21.1	19.9 x 12.9	190	530.0	F8-F22
<a href="#">TO125/28.5-190-V-BW*</a>	2-05-855	0.227	125.0		104.4 x 68.7	76.2 x 57.3	56.4 x 42.3	38.8 x 29.1	31.3 x 23.8	28.2 x 21.1	21.1 x 15.9	15.0 x 9.7	190	521.3	F10-F22

\*M42 connection

... M42 MAGNIFYING TELECENTRIC MICROSCOPE LENSES. PIXEL CLASS 30 MP

LENS TYPE	ORDER NUMBER	IMAGE SCALE	MAX. OBJECT FIELD DIAMETER	FIELD OF VIEW (in mm <sup>2</sup> ) FOR									WORKING DISTANCE (mm)	CAMERA DISTANCE (mm)	APERTURE
				Typ 35 mm	Typ DX	Typ 4/3   1,2"	1"	2/3"	1 / 1.8"	1/2"	1/3"	1/4"			
				36.0 x 24.0 mm <sup>2</sup>	23.7 x 15.6 mm <sup>2</sup>	17.3 x 13.0 mm <sup>2</sup>	12.8 x 9.6 mm <sup>2</sup>	8.8 x 6.6 mm <sup>2</sup>	7.1 x 5.4 mm <sup>2</sup>	6.4 x 4.8 mm <sup>2</sup>	4.8 x 3.6 mm <sup>2</sup>	3.4 x 2.2 mm <sup>2</sup>			
<a href="#">TOM14.2/28.4-86-F12-WN</a>	2-05-611	2.000	14.2	11.9 x 7.8	8.7 x 6.5	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	1.7 x 1.1	86	224.0	□	
<a href="#">TOM10.5/43.4-66-F20-WN</a>	2-05-612	4.133	10.5	8.7 x 5.8	5.7 x 3.8	4.2 x 3.1	3.1 x 2.3	2.1 x 1.6	1.7 x 1.3	1.5 x 1.2	1.2 x 0.9	0.8 x 0.5	66	240.0	□
<a href="#">TOM8.7/43.4-64-F20-WN</a>	2-05-613	4.990	8.7	7.2 x 4.8	4.7 x 3.1	3.5 x 2.6	2.6 x 1.9	1.8 x 1.3	1.4 x 1.1	1.3 x 1.0	1.0 x 0.7	0.7 x 0.4	64	280.0	□
<a href="#">TOM5.9/43.4-48-F22-WN</a>	2-05-614	7.356	5.9	4.9 x 3.3	3.2 x 2.1	2.4 x 1.8	1.7 x 1.3	1.2 x 0.9	1.0 x 0.7	0.9 x 0.7	0.7 x 0.5	0.5 x 0.3	48	226.0	□
<a href="#">TOM4.5/43.4-48-F24-WN</a>	2-05-615	9.644	4.5	3.7 x 2.5	2.5 x 1.6	1.8 x 1.3	1.3 x 1.0	0.9 x 0.7	0.7 x 0.6	0.7 x 0.5	0.5 x 0.4	0.4 x 0.2	48	275.0	□

... MAGNIFYING TELECENTRIC MEASURING LENSES

LENS TYPE	ORDER NUMBER	Pixel class	IMAGE SCALE	FIELD OF VIEW (in mm <sup>2</sup> ) FOR								WORKING DISTANCE (mm)	APER-TURE ADJUST-ABLE
				Typ DX	Typ 4/3   1,2"	1"	2/3"	1/1.8"	1/2"	1/3"	1/4"		
				23.7 x 15.6 mm <sup>2</sup>	17.3 x 13.0 mm <sup>2</sup>	12.8 x 9.6 mm <sup>2</sup>	8.8 x 6.6 mm <sup>2</sup>	7.1 x 5.4 mm <sup>2</sup>	6.4 x 4.8 mm <sup>2</sup>	4.8 x 3.6 mm <sup>2</sup>	3.4 x 2.2 mm <sup>2</sup>		
<a href="#">Telec. microscope-lens 10x</a>	2-05-110		10		1.7 x 1.3	1.3 x 1.0	0.9 x 0.7	0.7 x 0.5	0.6 x 0.4	0.4 x 0.3	0.3 x 0.2	49.5	□
<a href="#">Telec. microscope-lens 5x</a>	2-05-111		5.17		3.3 x 2.5	2.5 x 1.9	1.7 x 1.3	1.4 x 1.0	1.2 x 0.9	0.9 x 0.6	0.6 x 0.4	64	□
<a href="#">Telec. microscope-lens 3x</a>	2-05-112		3.11		5.6 x 4.2	4.1 x 3.1	2.8 x 2.1	2.3 x 1.7	2.1 x 1.5	1.5 x 1.2	1.1 x 0.7	75.5	□
<a href="#">Telec. microscope-lens 1x</a>	2-05-113		1.03		16.8 x 12.6	12.4 x 9.3	8.5 x 6.4	6.9 x 5.2	6.2 x 4.7	4.7 x 3.5	3.3 x 2.1	79	□
<a href="#">T10/9.7L</a>	2-05-220		9.7		1.8 x 1.3	1.3 x 1.0	0.9 x 0.7	0.7 x 0.6	0.7 x 0.5	0.5 x 0.4	0.4 x 0.2	48	□
<a href="#">T10/7.4L</a>	2-05-218		7.41		2.3 x 1.8	1.7 x 1.3	1.2 x 0.9	1.0 x 0.7	0.9 x 0.6	0.6 x 0.5	0.5 x 0.3	48.5	□
<a href="#">T24/3.0a</a>	2-05-233	5 MP	2.957				3.0 x 2.2	2.4 x 1.8	2.2 x 1.6	1.6 x 1.2	1.1 x 0.7	30	■
<a href="#">T24/2.5a</a>	2-05-234	5 MP	2.447				3.6 x 2.7	2.9 x 2.2	2.6 x 2.0	2.0 x 1.5	1.4 x 0.9	31.7	■
<a href="#">T24/2.0a</a>	2-05-235	5 MP	1.966				4.5 x 3.4	3.6 x 2.7	3.3 x 2.4	2.4 x 1.8	1.7 x 1.1	34.4	■
<a href="#">T24/1.5a</a>	2-05-236	5 MP	1.458						4.4 x 3.3	3.3 x 2.5	2.3 x 1.5	38.9	■
<a href="#">T43/1.4</a>	2-05-239	5 MP	1.4		12.4 x 9.3	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	2.4 x 1.6	102	□
<a href="#">T45/5.0L</a>	2-05-251	5 MP	5.0		3.5 x 2.6	2.6 x 1.9	1.8 x 1.3	1.4 x 1.1	1.1 x 1.0	1.0 x 0.7	0.7 x 0.4	64	□
<a href="#">T45/4.0L</a>	2-05-252	5 MP	3.77		4.6 x 3.4	3.4 x 2.5	2.3 x 1.8	1.9 x 1.4	1.7 x 1.3	1.3 x 1.0	0.9 x 0.6	66.5	□
<a href="#">T45/2.0L</a>	2-05-250	5 MP	2.0		8.7 x 6.5	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	1.7 x 1.1	77	□
<a href="#">T51/1.7</a>	2-05-272	5 MP	1.728		10.0 x 7.5	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	2.0 x 1.3	49.3	■
<a href="#">T51/1.4</a>	2-05-265	5 MP	1.382				6.4 x 4.8	5.1 x 3.9	4.6 x 3.5	3.5 x 2.6	2.5 x 1.6	28.56	■
<a href="#">T51/1.2</a>	2-05-266	9 MP	1.195				7.4 x 5.5	5.9 x 4.5	5.4 x 4.0	4.0 x 3.0	2.8 x 1.8	34	■
<a href="#">T51/1.0</a>	2-05-267	9 MP	0.995					7.1 x 5.4	6.4 x 4.8	4.8 x 3.6	3.4 x 2.2	42	■
<a href="#">T51/0.8</a>	2-05-268	9 MP	0.891					8.0 x 6.1	7.2 x 5.4	5.4 x 4.0	3.8 x 2.5	52	■
<a href="#">T51/0.7</a>	2-05-269	9 MP	0.685					10.4 x 7.9	9.3 x 7.0	7.0 x 5.3	5.0 x 3.2	63	■
<a href="#">T80/1.0L</a>	2-05-270	3 MP	0.988				8.9 x 6.7	7.2 x 5.5	6.5 x 4.9	4.9 x 3.6	3.4 x 2.2	115	□

... DEMAGNIFYING TELECENTRIC MEASURING LENSES

LENS TYPE	ORDER NUMBER	Pixel class	IMAGE SCALE	FIELD OF VIEW (in mm <sup>2</sup> ) FOR								WORKING DISTANCE (mm)	APERTURE ADJUST-ABLE
				Typ DX	Typ 4/3   1,2"	1"	2/3"	1 / 1.8"	1/2"	1/3"	1/4"		
				23.7 x 15.6 mm <sup>2</sup>	17.3 x 13.0 mm <sup>2</sup>	12.8 x 9.6 mm <sup>2</sup>	8.8 x 6.6 mm <sup>2</sup>	7.1 x 5.4 mm <sup>2</sup>	6.4 x 4.8 mm <sup>2</sup>	4.8 x 3.6 mm <sup>2</sup>	3.4 x 2.2 mm <sup>2</sup>		
<a href="#">T107/0.83</a>	2-05-287	5 MP	0.832		20.8 x 15.6	15.4 x 11.5	10.6 x 7.9	8.5 x 6.5	7.7 x 5.8	5.8 x 4.3	4.1 x 2.6	100	■
<a href="#">T125/0.7L</a>	2-05-310	3 MP	0.713				12.3 x 9.3	10.0 x 7.6	9.0 x 6.7	6.7 x 5.0	4.8 x 3.1	197	□
<a href="#">T150/0.25</a>	2-05-320	5 MP	0.238				37.0 x 27.7	29.8 x 22.7	26.9 x 20.2	20.2 x 15.1	14.3 x 9.2	109	■
<a href="#">T150/0.24L</a>	2-05-319	5 MP	0.240				36.7 x 27.5	29.5 x 22.5	26.7 x 20.0	20.0 x 15.0	14.2 x 9.2	156	■
<a href="#">T150/0.19L</a>	2-05-324	5 MP	0.185						34.6 x 25.9	25.9 x 19.5	18.4 x 11.9	302	■
<a href="#">T150/0.19</a>	2-05-321	5 MP	0.188					37.7 x 28.7	34.0 x 25.5	25.5 x 19.1	18.0 x 11.7	112	■
<a href="#">T150/0.17L</a>	2-05-323	5 MP	0.170						37.6 x 28.12	28.2 x 21.1	20.0 x 12.9	287	■
<a href="#">T150/0.14</a>	2-05-322	5 MP	0.140							34.3 x 25.7	24.3 x 15.7	71	■
<a href="#">T151/0.44</a>	2-05-327	3 MP	0.436		39.7 x 29.8	29.4 x 22.0	20.2 x 15.1	16.3 x 12.4	14.7 x 11.0	11.0 x 8.3	7.8 x 5.0	200	■
<a href="#">T151/0.39</a>	2-05-326	3 MP	0.393			32.6 x 24.4	22.4 x 16.8	18.1 x 13.7	16.3 x 12.2	12.2 x 9.2	8.7 x 5.6	223	■
<a href="#">T151/0.30</a>	2-05-325	5 MP	0.306				28.8 x 21.6	23.2 x 17.6	20.9 x 15.7	15.7 x 11.8	11.1 x 7.2	185	■
<a href="#">T151/0.26L</a>	2-05-328	5 MP	0.258					27.5 x 20.9	24.8 x 18.6	18.6 x 14.0	13.2 x 8.5	277	■
<a href="#">T152/0.36</a>	2-05-329	5 MP	0.359			35.7 x 26.7	24.5 x 18.4	19.8 x 15.0	17.8 x 13.4	13.4 x 10.0	9.5 x 6.1	110	■
<a href="#">T201/0.42</a>	2-05-345	5 MP	0.418		41.4 x 31.1	30.6 x 23.0	21.1 x 15.8	17.0 x 12.9	15.3 x 11.5	11.5 x 8.6	8.1 x 5.3	210	■
<a href="#">T201/0.30</a>	2-05-336	5 MP	0.309			41.5 x 31.1	28.5 x 21.4	23.0 x 17.5	20.7 x 15.5	15.5 x 11.7	11.0 x 7.1	157	■
<a href="#">T201/0.28L</a>	2-05-335	5 MP	0.285				30.8 x 23.1	24.9 x 18.9	22.4 x 16.8	16.8 x 12.6	11.9 x 7.7	278	■
<a href="#">T201/0.26</a>	2-05-337	5 MP	0.263				33.4 x 25.1	27.0 x 20.6	24.4 x 18.3	18.3 x 13.7	12.9 x 8.3	130	■
<a href="#">T201/0.19</a>	2-05-334	5 MP	0.194				45.4 x 34.0	36.6 x 27.8	33.0 x 24.8	24.8 x 18.6	17.5 x 11.3	143	■
<a href="#">T201/0.19L</a>	2-05-333	5 MP	0.192					36.9 x 28.1	33.3 x 24.9	24.9 x 18.7	17.7 x 11.4	284	■
<a href="#">T201/0.15</a>	2-05-338	5 MP	0.149					47.6 x 36.2	42.9 x 32.2	32.2 x 24.1	22.8 x 14.7	136	■
<a href="#">T201/0.13L</a>	2-05-332	5 MP	0.136							35.3 x 26.5	25.0 x 16.2	273	■
<a href="#">T201/0.12</a>	2-05-339	5 MP	0.118							40.5 x 30.4	28.7 x 18.6	135	■
<a href="#">T240/0.27a</a>	2-05-227	3 MP	0.274		63.1 x 47.4	46.7 x 35.0	32.1 x 24.01	25.9 x 19.7	23.4 x 17.5	17.5 x 13.1	12.4 x 8.0	287	■

LENS TYPE	ORDER NUMBER	Pixel class	IMAGE SCALE	FIELD OF VIEW (in mm <sup>2</sup> ) FOR								WORKING DISTANCE (mm)	APERTURE ADJUST-ABLE
				Typ DX	Typ 4/3   1,2"	1"	2/3"	1 / 1.8"	1/2"	1/3"	1/4"		
				23.7 x 15.6 mm <sup>2</sup>	17.3 x 13.0 mm <sup>2</sup>	12.8 x 9.6 mm <sup>2</sup>	8.8 x 6.6 mm <sup>2</sup>	7.1 x 5.4 mm <sup>2</sup>	6.4 x 4.8 mm <sup>2</sup>	4.8 x 3.6 mm <sup>2</sup>	3.4 x 2.2 mm <sup>2</sup>		
<a href="#">T240/0.18a</a>	2-05-226	3 MP	0.173			74.0 x 55.5	50.9 x 38.2	41.0 x 31.2	37.0 x 27.7	27.7 x 20.8	19.7 x 12.7	202	■
<a href="#">T240/0.13a</a>	2-05-223	5 MP	0.131				67.2 x 50.5	54.2 x 41.2	48.9 x 36.6	36.6 x 27.5	26.0 x 16.8	212.6	■
<a href="#">T240/0.10a</a>	2-05-225	5 MP	0.103					68.8 x 52.3	62.0 x 46.5	46.5 x 34.8	32.9 x 21.3	195	■
<a href="#">T240/0.08a</a>	2-05-224	5 MP	0.089							53.9 x 40.4	38.2 x 24.7	190	■
<a href="#">T360/0.19a</a>	2-05-247	3 MP	0.189		91.5 x 68.8	67.7 x 50.8	46.6 x 34.9	37.6 x 28.6	33.9 x 25.4	25.4 x 19.0	18.0 x 11.6	355.5	■
<a href="#">T360/0.13a</a>	2-05-246	5 MP	0.131			97.7 x 73.3	67.2 x 50.4	54.2 x 41.2	48.9 x 36.6	36.6 x 27.5	26.0 x 16.8	205	■
<a href="#">T360/0.09a</a>	2-05-245	5 MP	0.089				98.8 x 74.1	79.7 x 60.6	71.8 x 53.9	53.9 x 40.4	38.2 x 24.7	265	■
<a href="#">T360/0.07a</a>	2-05-244	5 MP	0.073					97.8 x 74.4	88.2 x 66.1	66.1 x 49.6	46.8 x 30.3	193.6	■



... TELECENTRIC WIDE FIELD LENSES

LENS TYPE	ORDER NUMBER	Pixel class	IMAGE SCALE	FIELD OF VIEW (in mm <sup>2</sup> ) FOR						WORKING DISTANCE (mm)	APERTURE ADJUST-ABLE	
				Typ 4/3   1,2"	1"	2/3"	1 / 1.8"	1/2"	1/3"			1/4"
				17.3 x 13.0 mm <sup>2</sup>	12.8 x 9.6 mm <sup>2</sup>	8.8 x 6.6 mm <sup>2</sup>	7.1 x 5.4 mm <sup>2</sup>	6.4 x 4.8 mm <sup>2</sup>	4.8 x 3.6 mm <sup>2</sup>			3.4 x 2.2 mm <sup>2</sup>
<a href="#">TL371/0.03-B</a>	2-05-366	3 MP	0.030			290.4 x 217.8	234.3 x 178.2	211.2 x 158.4	158.4 x 118.8	112.2 x 72.6	400	■
<a href="#">TL371/0.03-B-PG390</a>	2-05-372	3 MP	0.030			290.4 x 217.8	234.3 x 178.2	211.2 x 158.4	158.4 x 118.8	112.2 x 72.6	400	■
<a href="#">TL371/0.03-IR</a>	2-05-365	3 MP	0.030			290.4 x 217.8	234.3 x 178.2	211.2 x 158.4	158.4 x 118.8	112.2 x 72.6	400	■
<a href="#">TL371/0.03-IR-PG390</a>	2-05-371	3 MP	0.030			290.4 x 217.8	234.3 x 178.2	211.2 x 158.4	158.4 x 118.8	112.2 x 72.6	400	■
<a href="#">TL371/0.03-R</a>	2-05-364	3 MP	0.030			290.4 x 217.8	234.3 x 178.2	211.2 x 158.4	158.4 x 118.8	112.2 x 72.6	400	■
<a href="#">TL371/0.03-R-PG390</a>	2-05-370	3 MP	0.030			290.4 x 217.8	234.3 x 178.2	211.2 x 158.4	158.4 x 118.8	112.2 x 72.6	400	■
<a href="#">TL371/0.03-SG390</a>	2-05-369	3 MP	0.030			290.4 x 217.8	234.3 x 178.2	211.2 x 158.4	158.4 x 118.8	112.2 x 72.6	400	■