

Carl Zeiss – Telecentric Visionmes lenses



Carl Zeiss VISIONMES lenses are developed for measuring tasks in industry and feature telecentric optics. This means that the ray paths run parallel in the imaging system – an important requirement for highly precise measurements. This results in distortion-free image formation over the entire object field. Even shapes with unfavourable geometries can be exactly imaged without any need for software correction of the measured results.

Model objectfield / imagefield / aperture	Mount	CCD chip size	WD (S in mm)	Telecentric range* (T in mm)	Depth of focus (mm)
11 / 8 / 0.01	C	1/2"	160	+/- 9	+/- 6
11 / 11 / 0.02	C	2/3"	54	+/- 2.5	+/- 1.25
11 / 11 / 0.02 (o)	C	2/3"	17	+/- 5	+/- 1.25
11 / 11 / 0.02 (b)	C	2/3"	54	+/- 5	+/- 1.25
13 / 11 / 0.01	C	2/3"	65	+/- 2	+/- 1
22 / 11 / 0.05	C	2/3"	66	+/- 2.5	+/- 2
22 / 11 / 0.05 (o)	C	2/3"	56	+/- 5	+/- 2
18 / 6 / 0.05	C	1/3"	66	+/- 10	+/- 3
35 / 6 / 0.1	C	1/3"	67	+/- 2.5	+/- 7.5
35 / 8 / 0.1	C	1/2"	64	+/- 2	+/- 4
35 / 11 / 0.1	C	2/3"	58	+/- 1.4	+/- 2
70 / 6 / 0.1	C	1/3"	113	+/- 13	+/- 25
70 / 8 / 0.1	C	1/2"	103	+/- 10.5	+/- 16
70 / 11 / 0.1	C	2/3"	75	+/- 8	+/- 9
70 / 16 / 0.1	C	1"	58	+/- 4	+/- 4
105 / 6 / 0.1	C	1/3"	182	+/- 16	+/- 50
105 / 8 / 0.1	C	1/2"	171	+/- 12	+/- 33
105 / 11 / 0.1	C	2/3"	121	+/- 10	+/- 20
150 / 8 / 0.1 (+)	C	1/2"	225	+/- 35	+/- 75
150 / 11 / 0.1 (+)	C	2/3"	165	+/- 25	+/- 38
150 / 16 / 0.1 (+)	C	1"	110	+/- 20	+/- 17
225 / 8 / 0.1 (+)	C	1/2"	340	+/- 55	+/- 165
225 / 11 / 0.1 (+)	C	2/3"	250	+/- 40	+/- 90
300 / 8 / 0.1 (+)	C	1/2"	450	+/- 75	+/- 300
300 / 11 / 0.1 (+)	C	2/3"	335	+/- 55	+/- 150
300 / 16 / 0.1 (+)	C	1"	230	+/- 40	+/- 60
6 / 18 / 0.029	C		85	+/- 1	+/- 0.1

(o) Lens with 90° angle on the object side

(b) Lens with 90° angle on the image side

(+) Lenses with variable stop

All lenses for 1" CCD-chip diagonal on request. All lenses with c-mount. All lenses for spectral range from 480 nm to 690 nm

(*) Valid at an exact flange focal distance of 17.52 mm (C-mount).