

Bi-telecentric lens for 2/3" cameras (VCM230 series)

LS-VCM230 series · Telecentric lenses · 16 models



Bi-telecentric lens series for sensors up to 2/3" (11.4 mm dia.), C-Mount. Models are named by object field of view (dia. mm); each lists magnification, working distance, F/#, MTF30, depth of field, distortion <0.1% and telecentricity <0.1°.

Features

- Matrix design with extremely high imaging quality
- Standard FOV from 26 to 240 mm, covering almost all industrial imaging applications
- Compatible with all C-mount cameras from 1/2.5" to 1.1", and F/M-mount cameras from 4/3" to 59 mm
- More than 168 standard types and hundreds of customised items
- Excellent F-number, high telecentricity, extremely low distortion, very large DoF
- Each lens comes with an imaging quality test report
- Lens mount with conveniently adjustable flange distance (AL)
- Matrix-design with extremely high imaging quality
- Compatible with all C mount cameras from 1/2.5" to 1.1", and F/M mount cameras from 4/3" to 59 mm
- Excellent F number, high telecentricity, extremely low distortion, super large DoF

Applications

- Industrial imaging applications (standard FOV 26 to 240 mm)

Common specifications

Max sensor size (dia. mm)	11.4(2/3")
Distortion (% max)	<0.1
Telecentricity (deg max)	<0.1
Mount (selection chart)	C
FOV range (dia. mm)	26 - 240
Telecentricity (° max)	<0.1
Mount	C-Mount

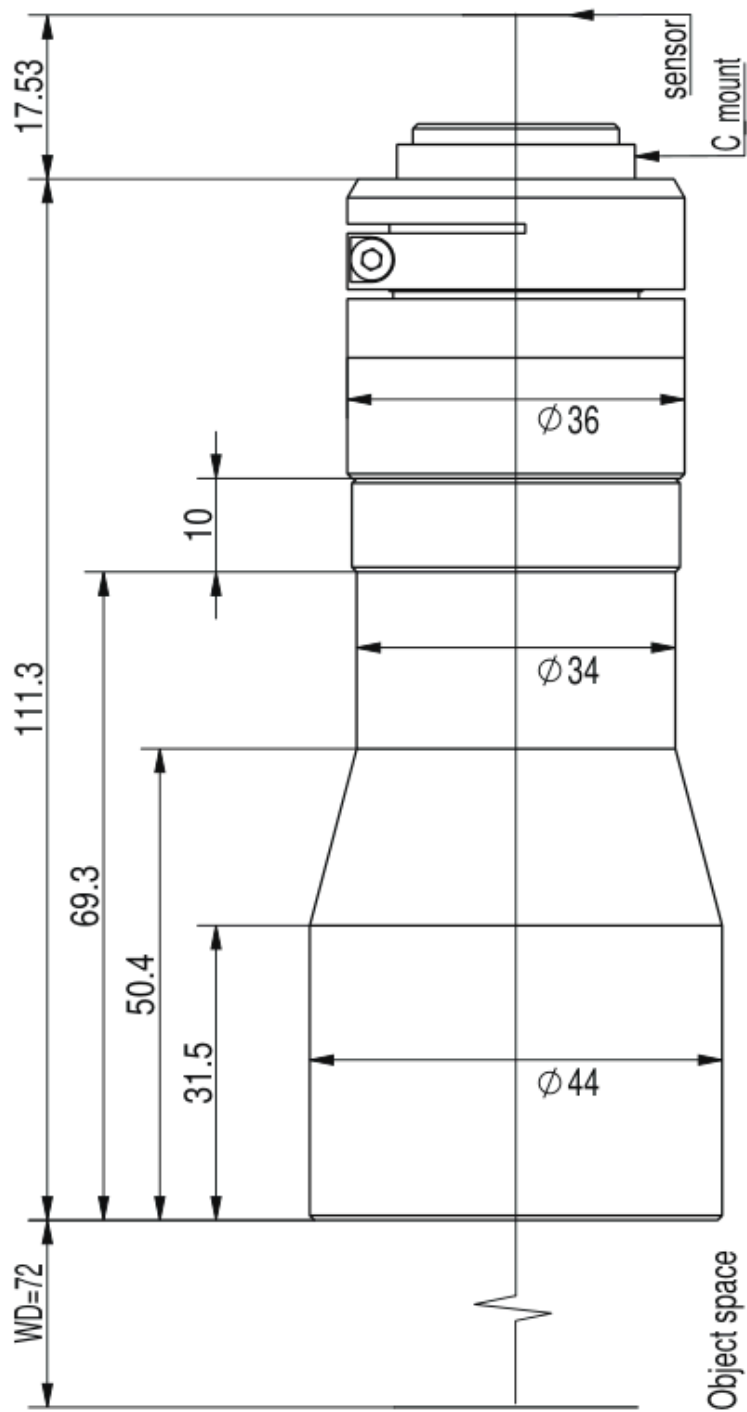
Ordering code: VCM230-<FOV diagonal mm, P variant>-AL (LS-VCM125-64-AL: 125 = largest compatible sensor 1/2.5", 64 = diagonal of FOV 64 mm, AL = lens mount with adjustable flange distance)

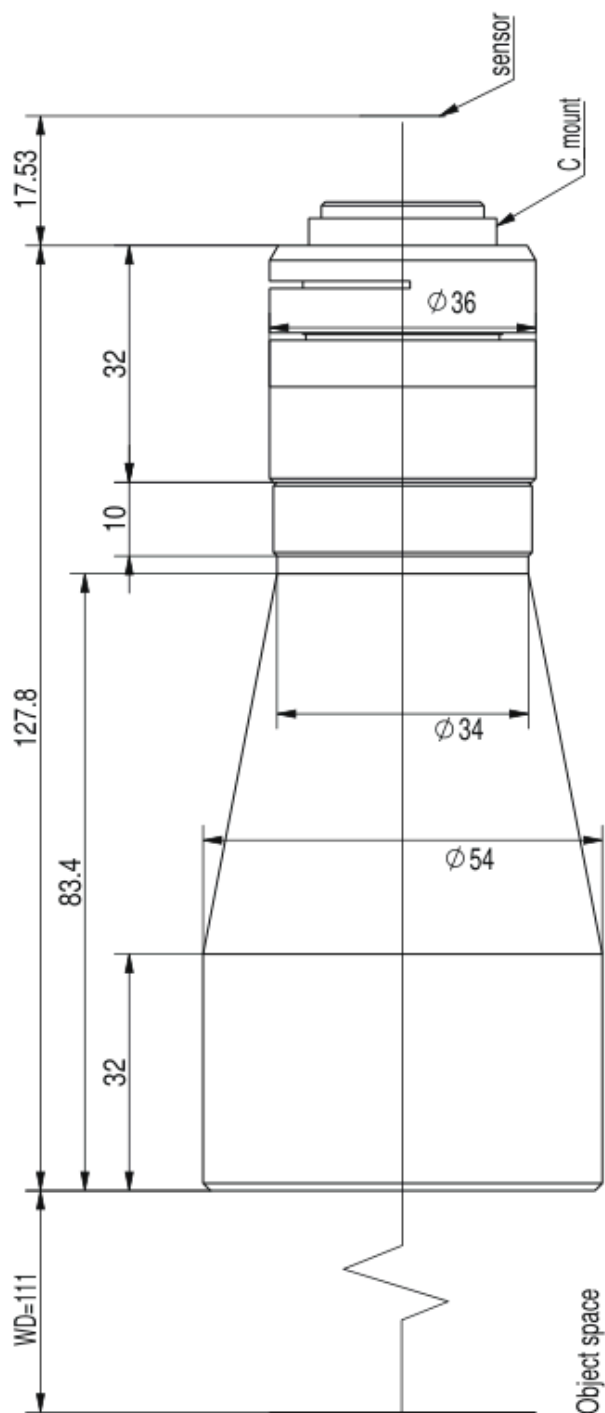
Models

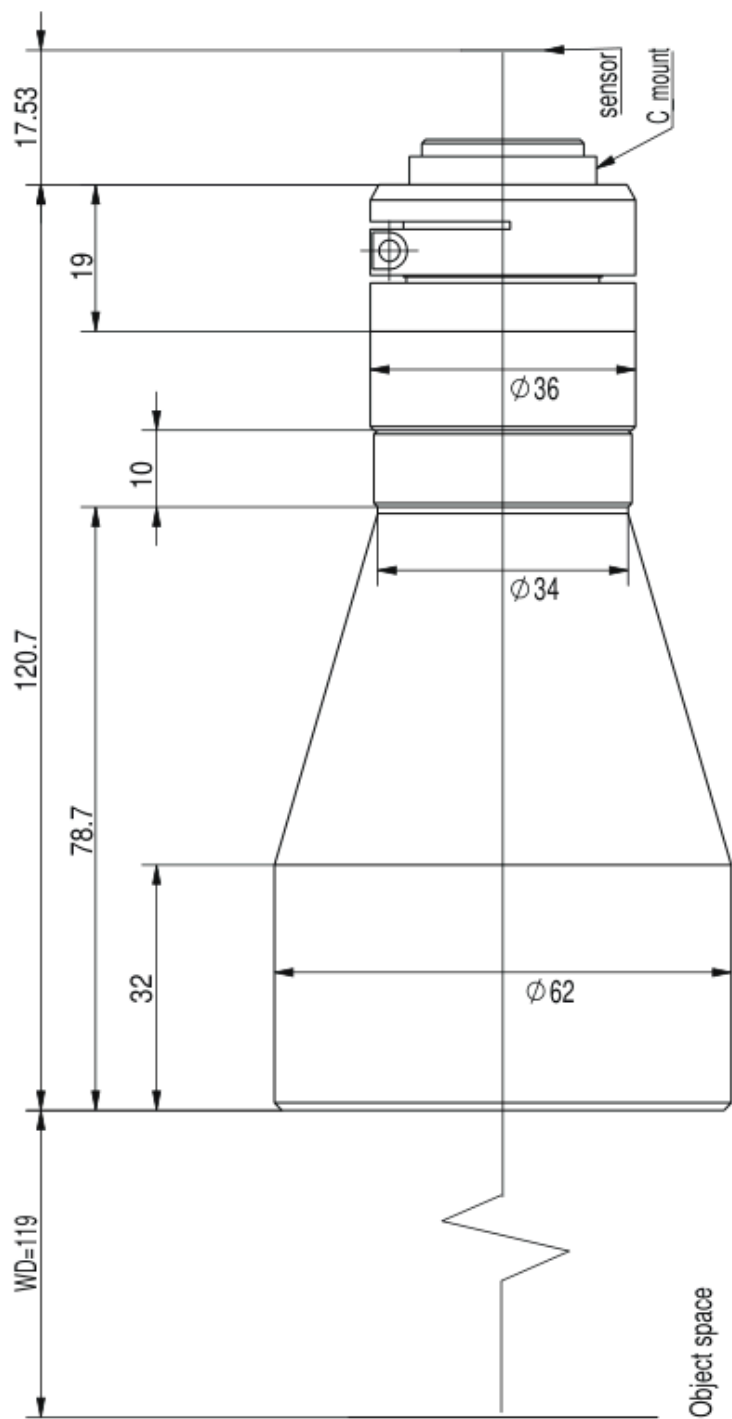
Model	FOV (dia. mm)	Mag. (x)	WD (mm)	F/#	MTF30 (lp/mm)	DoF (mm)	Working distance (mm)
LS-VCM230-26-AL	28	0.409	72±2	5.5	>125	±1	72±2
LS-VCM230-36-AL	38	0.293	111±2	5.5	>125	±2	111±2
LS-VCM230-42-AL	44	0.252	119±2	4.8	>130	±2	119±2
LS-VCM230-48-AL	50	0.221	128±2	5	>140	±2.5	128±2
LS-VCM230-56-AL	58	0.190	138±2	5	>145	±3.5	138±2
LS-VCM230-64-AL	66	0.166	187±2	6	>130	±7	187±2
LS-VCM230-64P-AL	66	0.165	159±2	4.5	>140	±8	159±2
LS-VCM230-72-AL	77	0.147	178±2	5.6	>135	±5	178±2
LS-VCM230-80-AL	84	0.132	229±2	6	>135	±8	229±2
LS-VCM230-100-AL	97	0.114	254±3	4.5	>135	±8	254±3
LS-VCM230-110-AL	115	0.095	251±3	4.5	>135	±8.5	251±3
LS-VCM230-136-AL	141	0.078	288±4	4.5	>135	±20	288±4
LS-VCM230-150-AL	155	0.071	301±4	4.5	>145	±22	301±4
LS-VCM230-170-AL	176	0.063	318±4	4.5	>135	±25	318±4
LS-VCM230-240-AL	249	0.044	410±5	5	>135	±40	410±5
LS-VCM230-80P-AL	-	-	-	-	-	-	229

More values per model (I/O (mm), Length (mm), Weight (kg), Mount shown in drawing, Field of view on 2/3" ICX625/655(8.47x7.1) (mm), Magnification (x), Depth of field (mm), Field of view on 2/3" ICX625/655(8.47x7.1) (mm x mm), Model (spec table), Detector, Mag, FOV...) are on each product page.

Dimensions









FOV (mm)		26	36	42	48	56	64	64P	72.00	80	100	110	136	150	170	240	Mount
CCD (mm)	Mag (x)																
LS-VCM125 (1/2.5"7.2mm)		0.277	0.199	0.172	0.15	0.129	0.113	0.1122	0.1	0.09	0.0771	0.0647	0.0529	0.048	0.0424	0.03	C
LS-VCM120 (1/2"8.0mm)		0.309	0.2217	0.192	0.167	0.144	0.126	0.125	0.112	0.1002	0.0859	0.072	0.0589	0.054	0.0472	0.0334	C
LS-VCM118 (1/1.8"9.0mm)		0.348	0.25	0.217	0.188	0.162	0.142	0.141	0.126	0.113	0.097	0.082	0.066	0.061	0.053	0.038	C
LS-VCM238 (2/3"11.4mm)		0.409	0.293	0.252	0.221	0.19	0.166	0.165	0.147	0.132	0.114	0.095	0.078	0.071	0.063	0.044	C
LS-VCM308 (2/3"11.4mm)		0.439	0.314	0.271	0.238	0.204	0.179	0.179	0.159	0.143	0.123	0.103	0.084	0.076	0.067	0.048	C
LS-VCM116 (1"16.6mm)		0.641	0.461	0.396	0.347	0.298	0.26	0.26	0.231	0.208	0.179	0.15	0.122	0.111	0.098	0.069	C
LS-VCM111 (1"18.4mm)		0.72	0.516	0.444	0.389	0.334	0.293	0.292	0.26	0.233	0.201	0.168	0.138	0.125	0.11	0.078	C
LS-VCM175 (1.75"29mm)		1.115	0.798	0.686	0.603	0.517	0.456	0.452	0.401	0.36	0.312	0.261	0.214	0.193	0.171	0.12	F/M42
LS-VCM219 (2"33mm)		1.269	0.912	0.781	0.687	0.589	0.518	0.514	0.458	0.412	0.354	0.296	0.242	0.22	0.194	0.137	F/M42
LS-VCM71M (39mm)		1.503	1.08	0.929	0.814	0.698	0.613	0.61	0.543	0.487	0.419	0.351	0.287	0.261	0.23	0.163	F/M58
LS-VCM35F (44mm)		1.503	1.208	1.0348	0.911	0.781	0.686	0.682	0.607	0.546	0.4681	0.3924	0.321	0.292	0.257	0.182	F/M58
LS-VCM16K (59mm)		2.264	1.626	1.396	1.256	1.051	0.92	0.916	0.817	0.735	0.63	0.528	0.432	0.392	0.346	0.245	M72
WD (mm)		72	111	119	128	138	187	159	178	229	254	251	288	301	318	410	

FOV (mm)		26	36	42	48	56	64	64P	72.00	80	100	110	136	150	170	240	Mount
CCD (mm)	Mag (x)																
VL125 (1/2.5"7.2mm)		0.277	0.199	0.172	0.15	0.129	0.113	0.1122	0.1	0.09	0.0771	0.0647	0.0529	0.048	0.0424	0.03	C
VL120 (1/2"8.0mm)		0.309	0.2217	0.192	0.167	0.144	0.126	0.125	0.112	0.1002	0.0859	0.072	0.0589	0.054	0.0472	0.0334	C
VL118 (1/1.8"9.0mm)		0.348	0.25	0.217	0.188	0.162	0.142	0.141	0.126	0.113	0.097	0.082	0.066	0.061	0.053	0.038	C
VL230 (2/3"11.4mm)		0.409	0.293	0.252	0.221	0.19	0.166	0.165	0.147	0.132	0.114	0.095	0.078	0.071	0.063	0.044	C
VL208 (2/3"11.4mm)		0.439	0.314	0.271	0.238	0.204	0.179	0.179	0.159	0.143	0.123	0.103	0.084	0.076	0.067	0.048	C
VL110 (1"16.6mm)		0.641	0.461	0.396	0.347	0.298	0.26	0.26	0.231	0.208	0.179	0.15	0.122	0.111	0.098	0.069	C
VL111 (1"18.4mm)		0.72	0.516	0.444	0.389	0.334	0.293	0.292	0.26	0.233	0.201	0.168	0.138	0.125	0.11	0.078	C
VL175 (1.75"29mm)		1.115	0.798	0.686	0.603	0.517	0.456	0.452	0.401	0.36	0.312	0.261	0.214	0.193	0.171	0.12	F/M42
VL210 (2"33mm)		1.269	0.912	0.781	0.687	0.589	0.518	0.514	0.458	0.412	0.354	0.296	0.242	0.22	0.194	0.137	F/M42
VL71M (39mm)		1.503	1.08	0.929	0.814	0.698	0.613	0.61	0.543	0.487	0.419	0.351	0.287	0.261	0.23	0.163	F/M58
VL35F (44mm)		1.503	1.208	1.0348	0.911	0.781	0.686	0.682	0.607	0.546	0.4681	0.3924	0.321	0.292	0.257	0.182	F/M58
VL16K (59mm)		2.264	1.626	1.396	1.256	1.051	0.92	0.916	0.817	0.735	0.63	0.528	0.432	0.392	0.346	0.245	M72
WD(59mm)		72	111	119	128	138	187	159	178	229	254	251	288	301	318	410	

Product views

