

Bi-telecentric lens for 1/1.8" cameras (VCM118 series)

LS-VCM118 series · Telecentric lenses · 15 models



VCM118 series bi-telecentric lenses for 1/1.8" cameras. Matrix-design with extremely high imaging quality, standard FOV from 26 to 240 mm; each VCM series lens comes with an imaging quality test report.

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)	9(1/1.8")
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

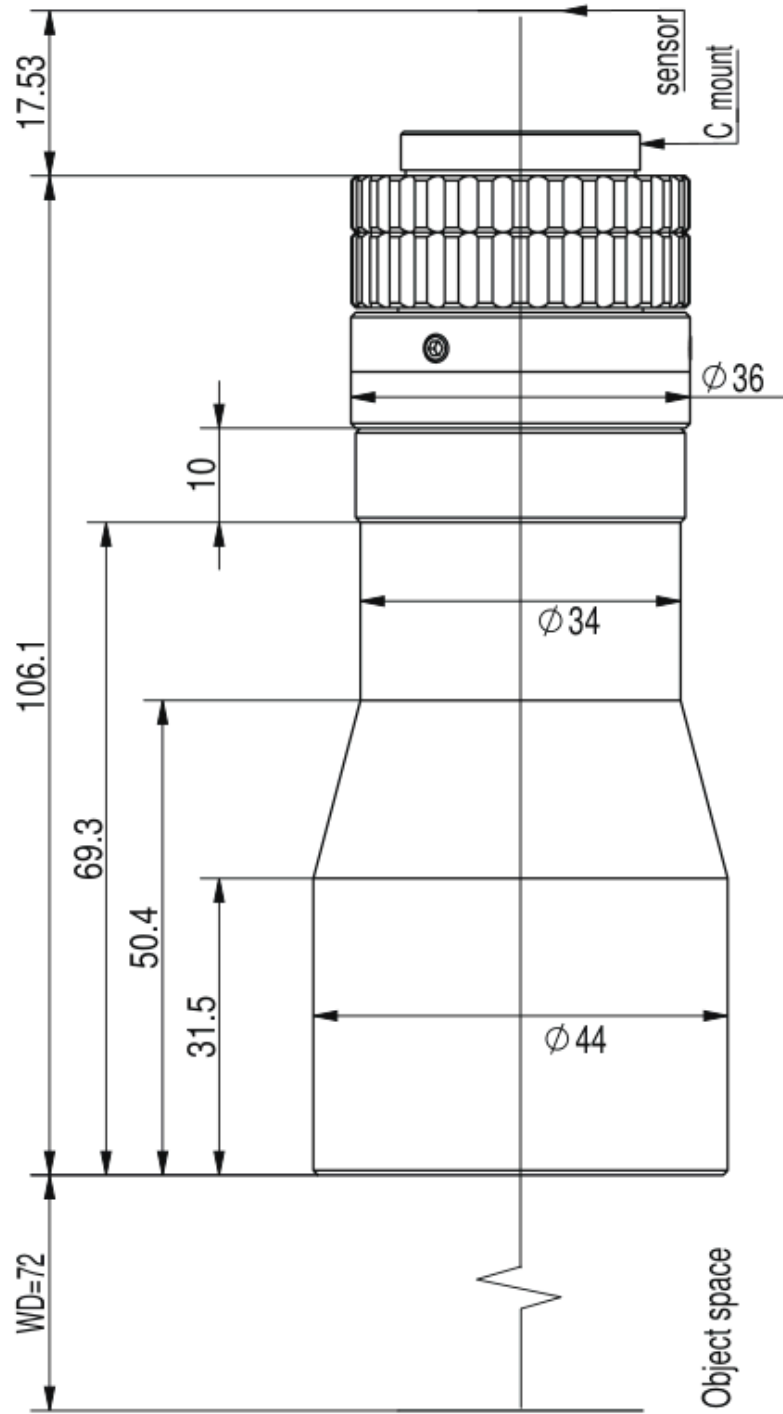
Ordering code: VCM118-<FOV diagonal mm, P variant>-AL (LS-VCM125-64-AL: 125 = largest compatible sensor 1/2.5", 64 = diagonal of FOV 64 mm, AL = lens mount with adjustable flange distance)

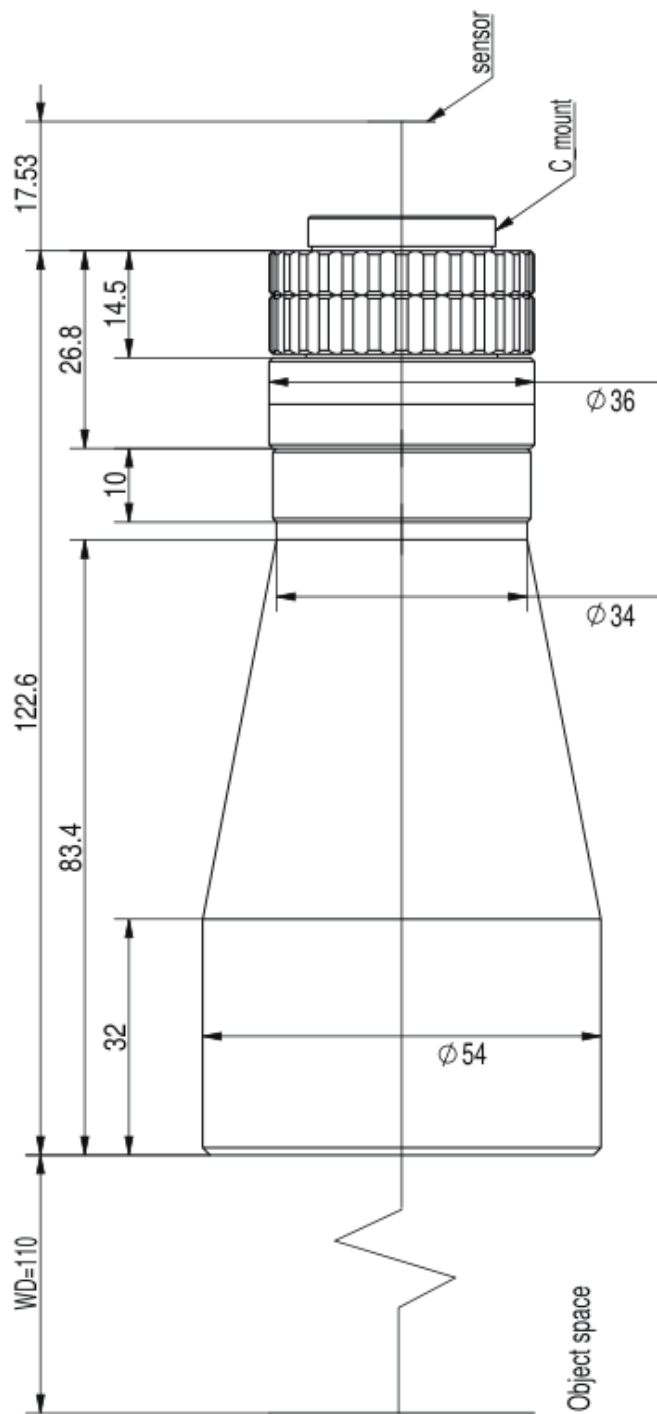
Models

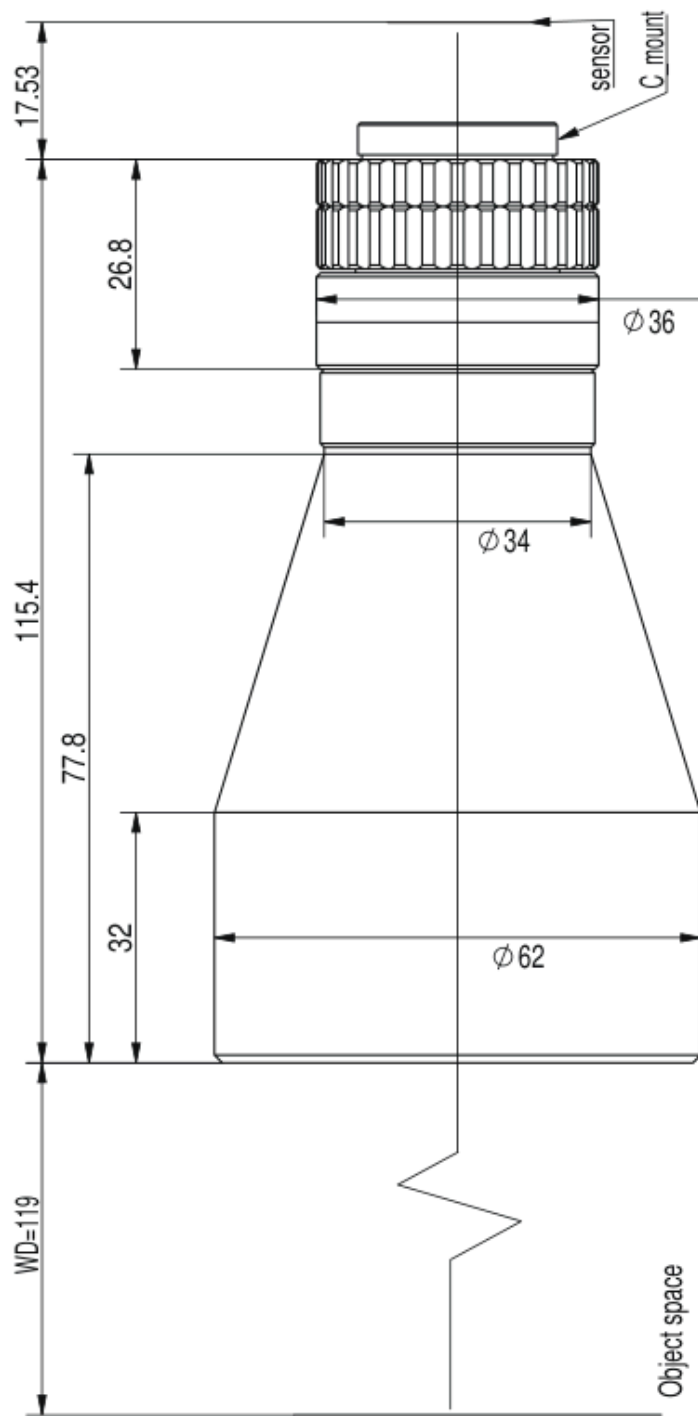
Model	FOV (dia. mm)	Mag. (x)	WD (mm)	F/#	MTF30 (lp/mm)	DoF (mm)	I/O (mm)
LS-VCM118-26-AL	26	0.348	72±2	4.7	>155	±1	195.6
LS-VCM118-36-AL	36	0.250	111±2	6.8	>165	±2	249.8
LS-VCM118-42-AL	41	0.217	119±2	6.5	>170	±2.5	252
LS-VCM118-48-AL	48	0.188	128±2	4.5	>180	±3	272.7
LS-VCM118-56-AL	56	0.162	138±2	4.5	>180	±3	304.3
LS-VCM118-64-AL	63	0.142	187±2	6.8	>95	±4	342.6
LS-VCM118-64P-AL	63	0.141	159±2	4.6	>175	±8	331.9
LS-VCM118-72-AL	72	0.126	178±2	7.1	>175	±4	376.8
LS-VCM118-80-AL	80	0.113	229±2	8	>170	±13	418
LS-VCM118-100-AL	93	0.097	254±3	4.7	>180	±11	459.7
LS-VCM118-110-AL	110	0.082	251±3	4.7	>180	±17	515.1
LS-VCM118-136-AL	136	0.066	288±4	4.7	>180	±21	669.7
LS-VCM118-150-AL	148	0.061	301±4	4.6	>180	±21	643.7
LS-VCM118-170-AL	170	0.053	318±4	4.7	>180	±25	726.5
LS-VCM118-240-AL	237	0.038	410±5	5.9	>180	±30	971.5

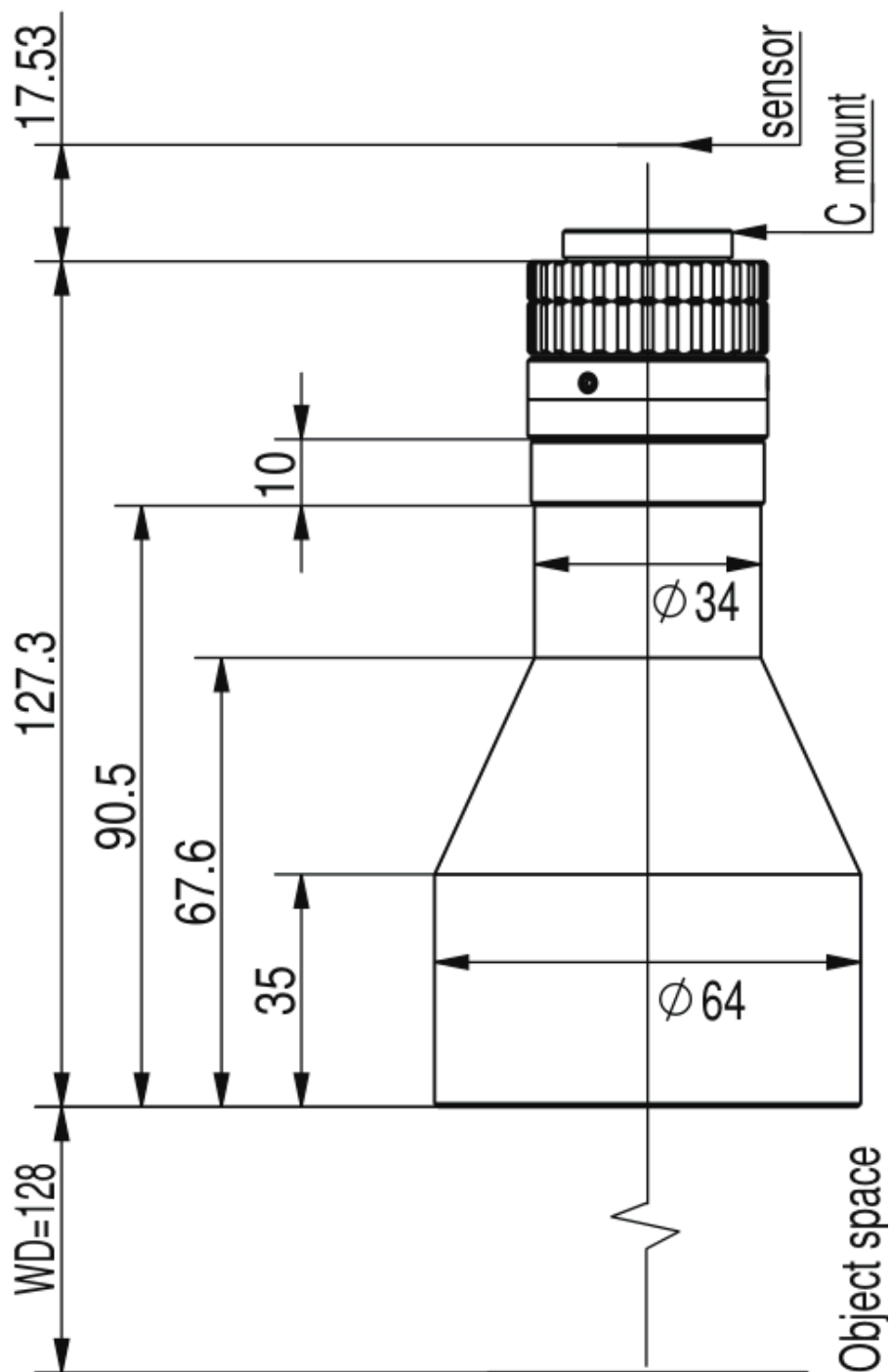
More values per model (Length (mm), Weight (kg), Mount shown in drawing, Field of view on 1/1.8" ICX274/687(7.16x5.44) (mm), Field of view on 1/1.8" EV76C570(7.2x5.4) (mm), Magnification (x), Working distance (mm), Depth of field (mm), Field of view on 1/1.8" ICX274/687(7.16x5.44) (mm x mm), Field of view on 1/1.8" EV76C570(7.2x5.4) (mm x mm), Model (spec table), Detector...) are on each product page.

Dimensions









Performance

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-VCM129 (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-VCM179 (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

