

Bi-telecentric lens for 1/2.3" cameras (VCM120 series)

LS-VCM120 series · Telecentric lenses · 15 models



Bi-telecentric lens series with matrix design and extremely high imaging quality; standard FOV from 26 to 240 mm. Each 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)	8(1/2")
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: VCM120-<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)

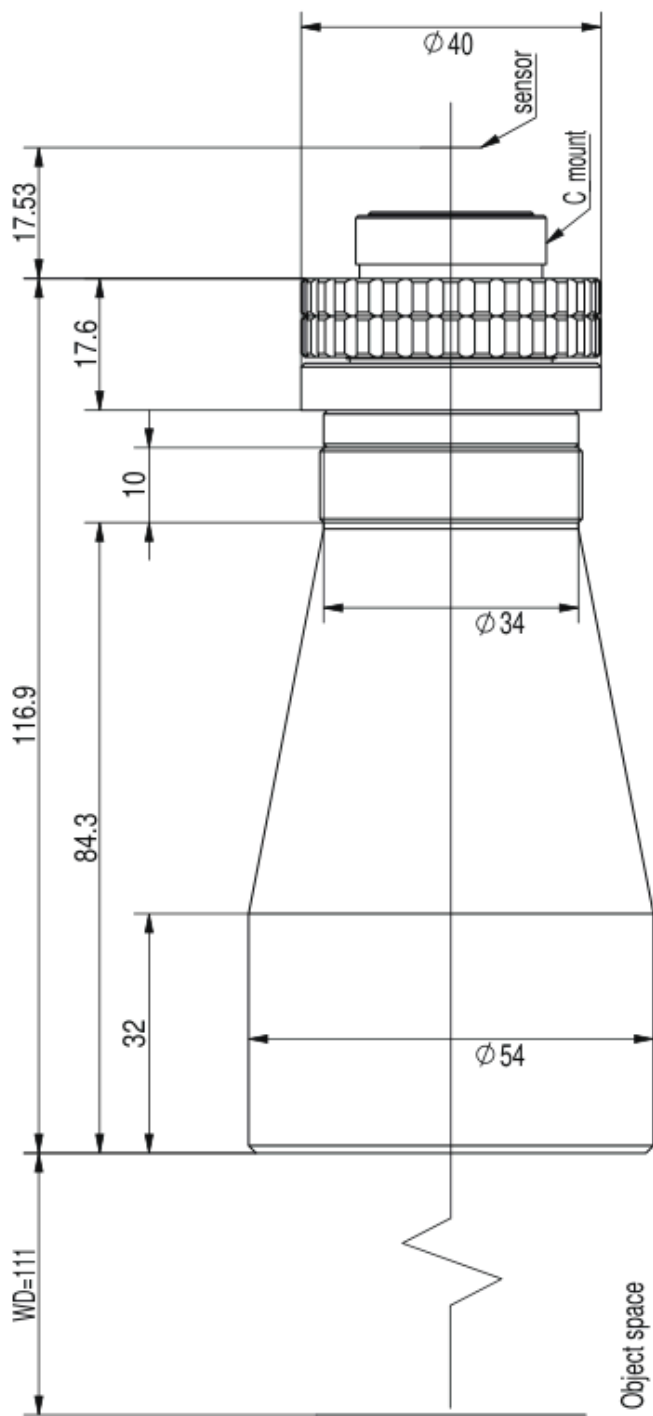
Models

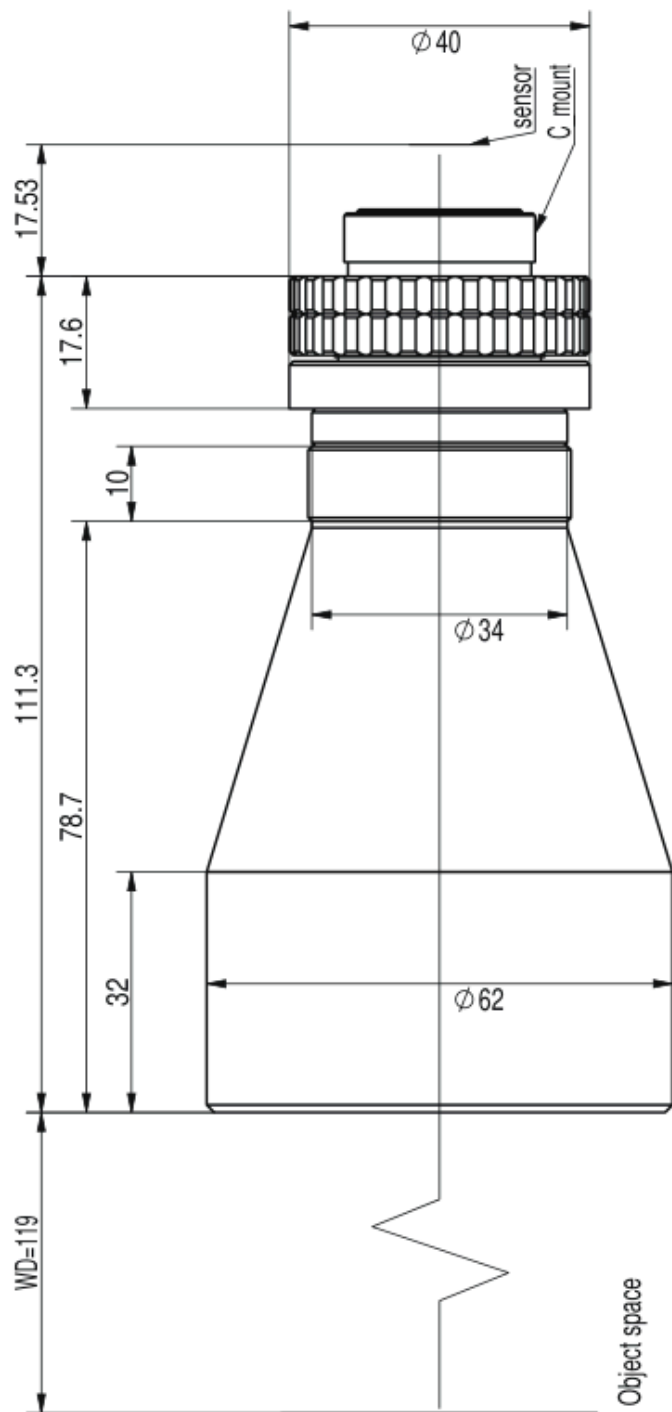
Model	FOV (dia. mm)	Mag. (x)	WD (mm)	F/#	MTF30 (lp/mm)	DoF (mm)	I/O (mm)
LS-VCM120-26-AL	26	0.309	72±2	4.7	>180	±1	192
LS-VCM120-36-AL	36	0.222	111±2	4	>210	±2.5	246
LS-VCM120-42-AL	42	0.192	119±2	4	>215	±3	248.3
LS-VCM120-48-AL	48	0.167	128±2	4.5	>240	±2.5	269
LS-VCM120-56-AL	56	0.144	138±2	4.5	>240	±4	300.6
LS-VCM120-64-AL	64	0.126	187±2	4.5	>235	±6	338.9
LS-VCM120-64P-AL	64	0.125	159±2	4	>240	±5	328.4
LS-VCM120-72-AL	72	0.112	178±2	4.7	>230	±6	373
LS-VCM120-80-AL	80	0.100	229±2	4	>210	±6	414.2
LS-VCM120-100-AL	93	0.086	254±3	4	>235	±7	458
LS-VCM120-110-AL	111	0.072	251±3	4	>235	±15	511.4
LS-VCM120-136-AL	136	0.059	288±4	4	>240	±20	666
LS-VCM120-150-AL	148	0.054	301±4	4.5	>235	±25	640
LS-VCM120-170-AL	169	0.047	318±4	4.5	>230	±30	722.8
LS-VCM120-240-AL	240	0.033	410±5	4	>240	±33	967.8

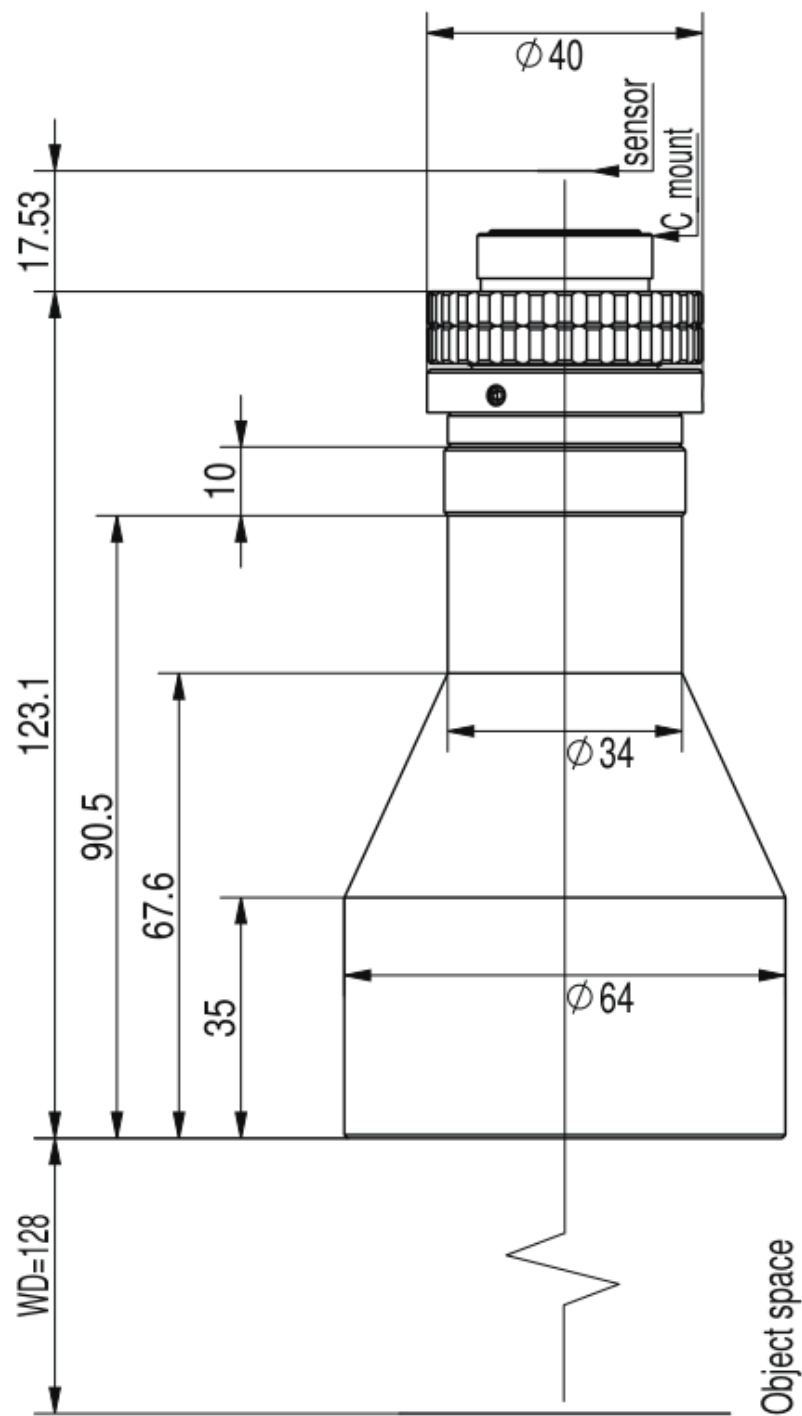
More values per model (Length (mm), Weight (kg), Mount shown in drawing, Field of view on 1/2.3" 9J003 (6.44x4.62) (mm), Magnification (x), Working distance (mm), Depth of field (mm), Field of view on 1/2.3" 9J003 (6.44x4.62) (mm x mm), Model (spec table), Detector, Mag, FOV...) are on each product page.

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-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-VCM230B (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"11.8.4mm)		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-VCM19K (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
VL230B (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"11.8.4mm)		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
VL19K (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

