

Bi-telecentric lens for 35mm Full cameras (VCM35F series)

LS-VCM35F series · Telecentric lenses · 15 models



Bi-telecentric lens series for sensors up to 35 mm full frame (44 mm dia.), F-Mount/Other. 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)	44(35mm)
Distortion (% max)	<0.1
Telecentricity (deg max)	<0.1
Mount (selection chart)	F/M58
FOV range (dia. mm)	26 - 240
Telecentricity (° max)	<0.1
Mount	F-Mount/Other
Detector	35mm

Ordering code: VCM35F-<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

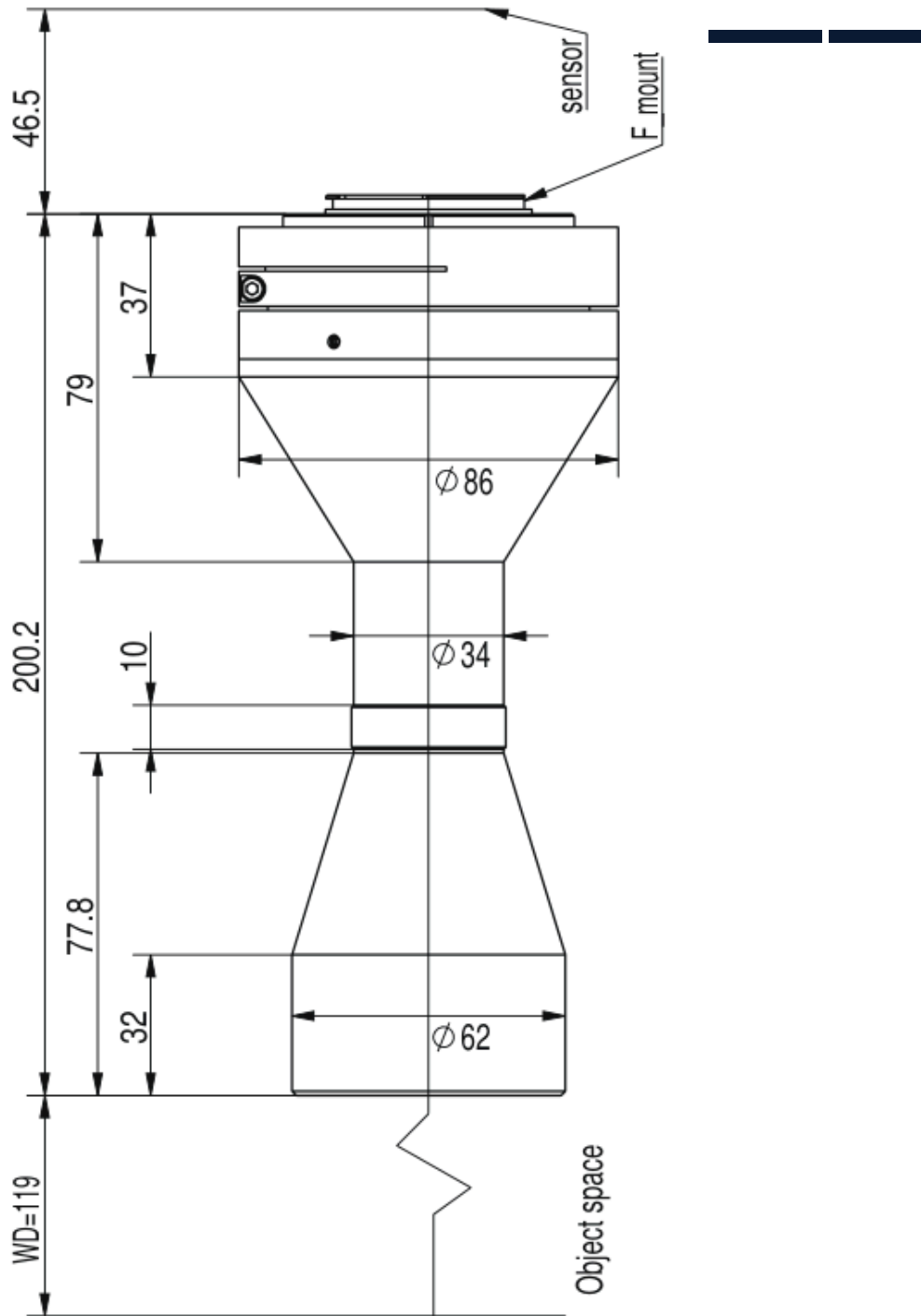
Model	FOV (dia. mm)	Mag. (x)	WD (mm)	F/#	MTF30 (lp/mm)	DoF (mm)	I/O (mm)
LS-VCM35F-26-AL	26	1.503	72±2	22.8	>40	±1	309
LS-VCM35F-36-AL	36	1.208	111±2	18	>50	±2	363.6
LS-VCM35F-42-AL	42	1.035	119±2	20	>50	±3	365.8
LS-VCM35F-48-AL	48	0.911	128±2	16	>60	±3	386.4
LS-VCM35F-56-AL	56	0.781	138±2	12	>80	±3	417.9
LS-VCM35F-64-AL	64	0.686	187±2	20	>45	±3	453.3
LS-VCM35F-64P-AL	64	0.682	159±2	10	>75	±1.5	445
LS-VCM35F-72-AL	72	0.607	178±2	10.2	>70	±2	490
LS-VCM35F-80-AL	80	0.546	229±2	16	>35	±2	531.6
LS-VCM35F-100-AL	94	0.468	254±3	18	>50	±3	573.3
LS-VCM35F-110-AL	112	0.392	251±3	8	>65	±3	628.8
LS-VCM35F-136-AL	137	0.321	288±4	6.2	>85	±2	783.3
LS-VCM35F-150-AL	150	0.292	301±4	10	>80	±6	757.2
LS-VCM35F-170-AL	170	0.257	318±4	6	>80	±3	840.2
LS-VCM35F-240-AL	240	0.182	410±5	6	>80	±7	1080.4

More values per model (Length (mm), Weight (kg), Mount shown in drawing, Field of view on 36.17x24.11with KAI29050 (mm), Magnification (x), Working distance (mm), Depth of field (mm), Field of view on 36.17x24.11with KAI29050 (mm x mm), Field of view (dia. mm), Object-to-image distance I/O (mm), Field of view with 36.17x24.11with KAI29050 (mm), Model (spec table)...) 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-VCM208 (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-VCM110 (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-VCM176 (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-VCM218 (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	

Product views

