

Bi-telecentric lens for 2" cameras (VCM210 series)

LS-VCM210 series · Telecentric lenses · 15 models



Bi-telecentric lens series for sensors up to 2" (33 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)	33(2")
Distortion (% max)	<0.1
Telecentricity (deg max)	<0.1
Mount (selection chart)	F/M42
FOV range (dia. mm)	26 - 240
Telecentricity (° max)	<0.1
Mount	F-Mount/Other
Detector	2"(33MM)

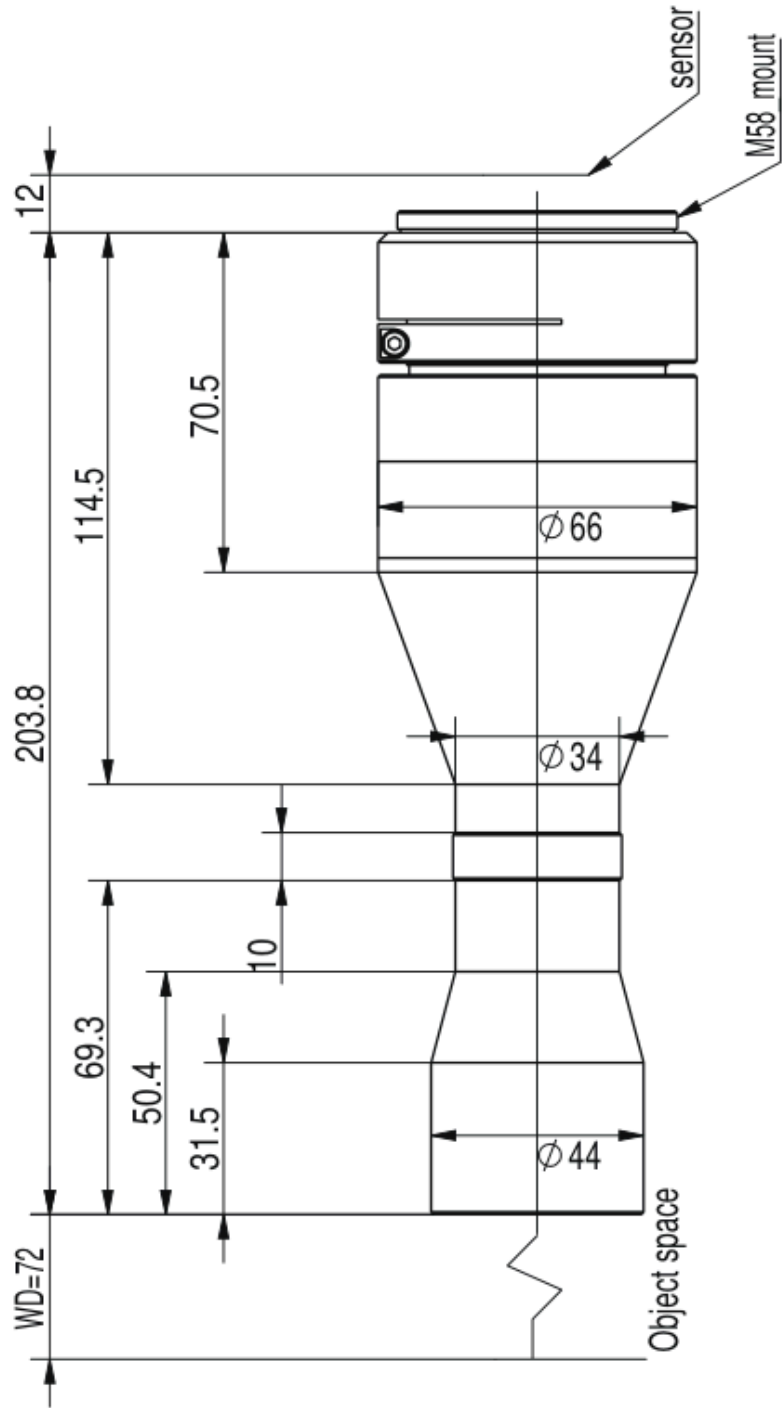
Ordering code: VCM210-<FOV diagonal mm, P variant>-AL (LS-VCM125-64-AL: 125 = largest compatible sensor 1/2.5", 64 = diagonal of FOV 64 mm, AL = lens mount with adjustable flange distance)

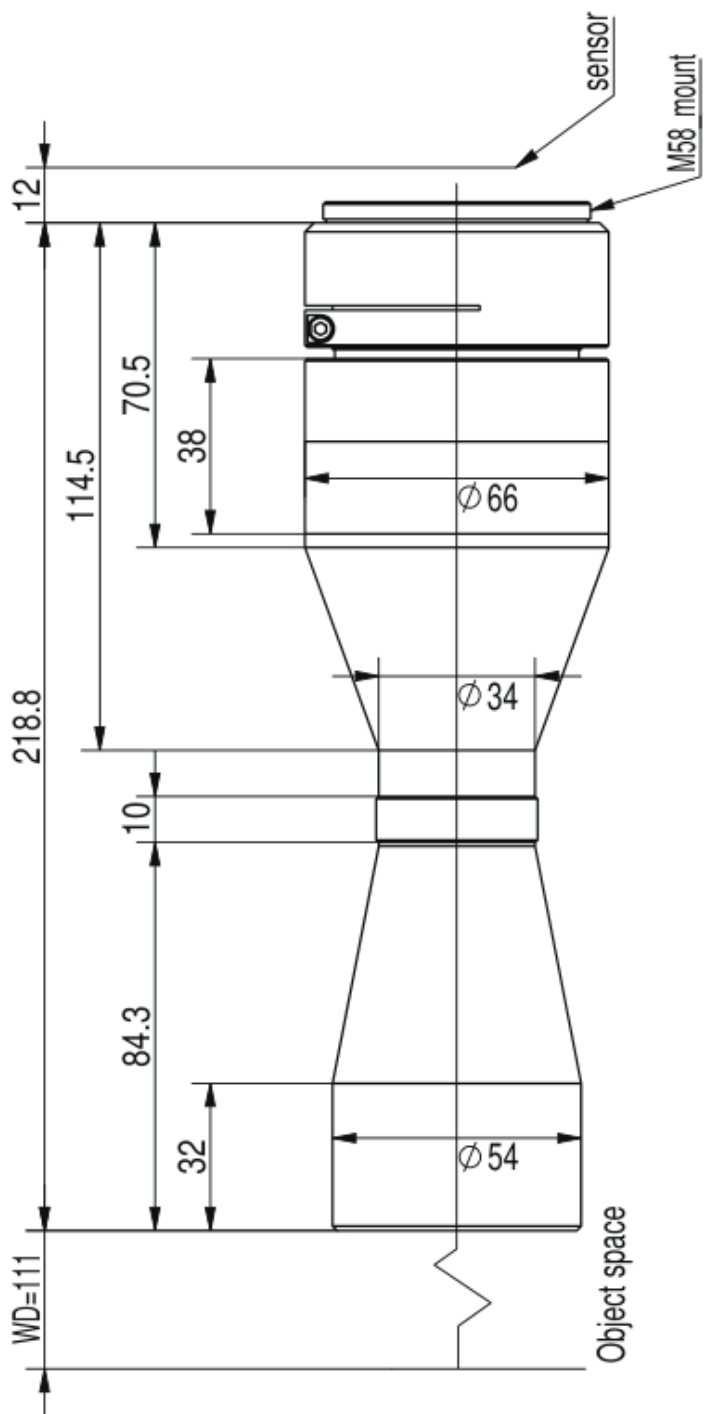
Models

Model	FOV (dia. mm)	Mag. (x)	WD (mm)	F/#	MTF30 (lp/mm)	DoF (mm)	I/O (mm)
LS-VCM210-26-AL	26	1.269	72±2	17.2	>45	±1	287.8
LS-VCM210-36-AL	36	0.912	111±2	17.2	>45	±1.9	342
LS-VCM210-42-AL	42	0.781	119±2	15.5	>52	±2	344
LS-VCM210-48-AL	48	0.687	128±2	12.9	>60	±2	365
LS-VCM210-56-AL	56	0.589	138±2	9.6	>85	±2	396.5
LS-VCM210-64-AL	63	0.518	187±2	12.8	>55	±3.5	435
LS-VCM210-64P-AL	64	0.514	159±2	9.6	>98	±2.5	424
LS-VCM210-72-AL	72	0.458	178±2	7.7	>110	±3	469
LS-VCM210-80-AL	80	0.412	229±2	9.6	>75	±4	511.5
LS-VCM210-100-AL	94	0.354	254±3	12.8	>50	±6	552
LS-VCM210-110-AL	111	0.296	251±3	7.7	>95	±5.5	607
LS-VCM210-136-AL	136	0.242	288±4	7.7	>108	±7.8	762
LS-VCM210-150-AL	150	0.220	301±4	7.7	>115	±9	735.8
LS-VCM210-170-AL	168	0.194	318±4	7.7	>100	±12	818
LS-VCM210-240-AL	240	0.137	410±5	6.5	>130	±18	1063

More values per model (Length (mm), Mount shown in drawing, Field of view on 2"KAI-16050(26.93x17.95) (mm), Field of view on 2"PYTHON 25K(23.04x23.04) (mm), Magnification (x), Working distance (mm), Depth of field (mm), Field of view on 2"KAI-16050(26.93x17.95) (mm x mm), Field of view on 2"PYTHON 25K(23.04x23.04) (mm x mm), Field of view (dia. mm), Object-to-image distance I/O (mm), Field of view with 2"KAI-16050(26.93x17.95) (mm)...) are on each product page.

Dimensions









FOV (mm)																	Mount
CCD (mm)	Mag (x)	26	36	42	48	56	64	64P	72.00	80	100	110	136	150	170	240	
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	0.141	0.142	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-VCM30F (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

