

Bi-telecentric lens for 2/3" cameras (VCM230B series)

LS-VCM230B series · Telecentric lenses · 15 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

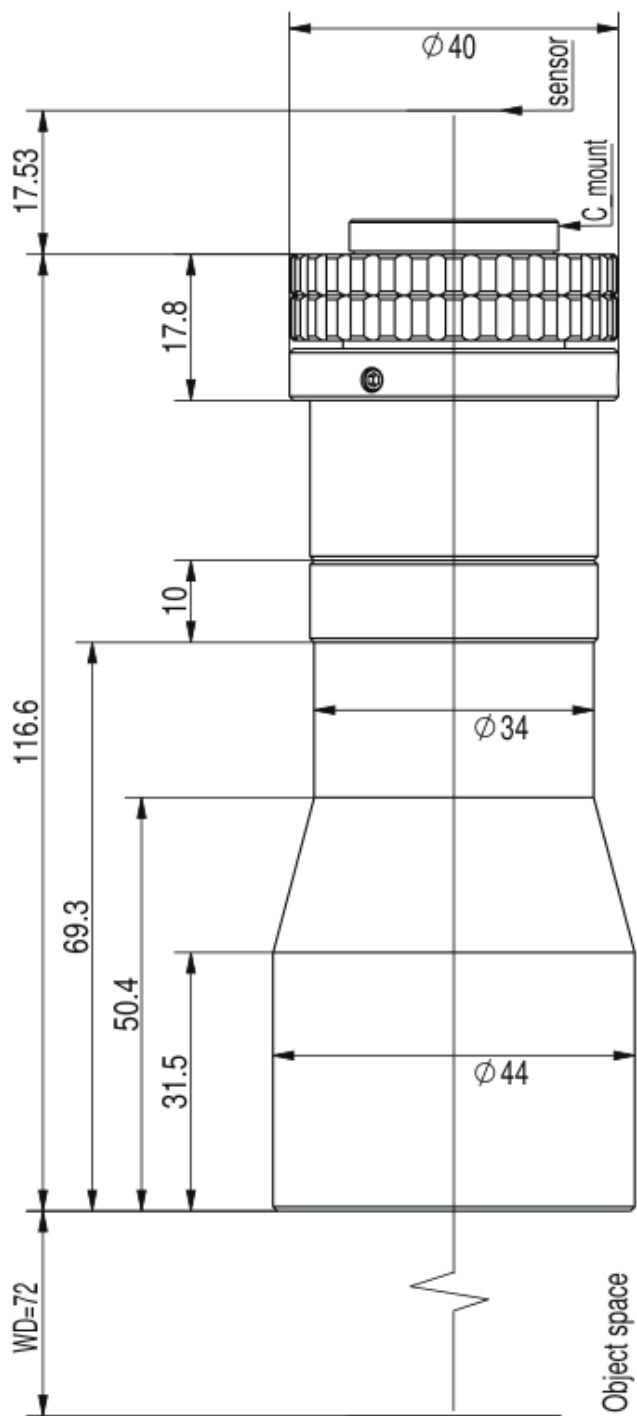
Ordering code: VCM230B-<FOV diagonal mm, P variant>-AL (LS-VCM125-64-AL: 125 = largest compatible sensor 1/2.5", 64 = diagonal of FOV 64 mm, AL = lens mount with adjustable flange distance)

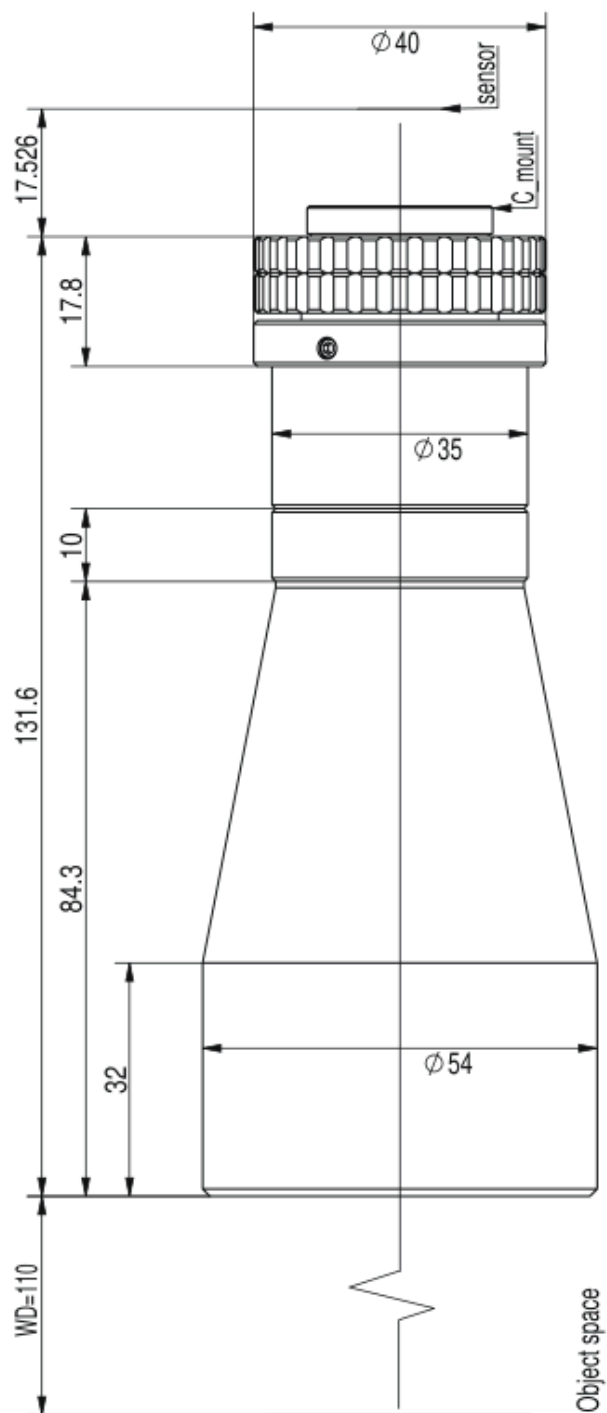
Models

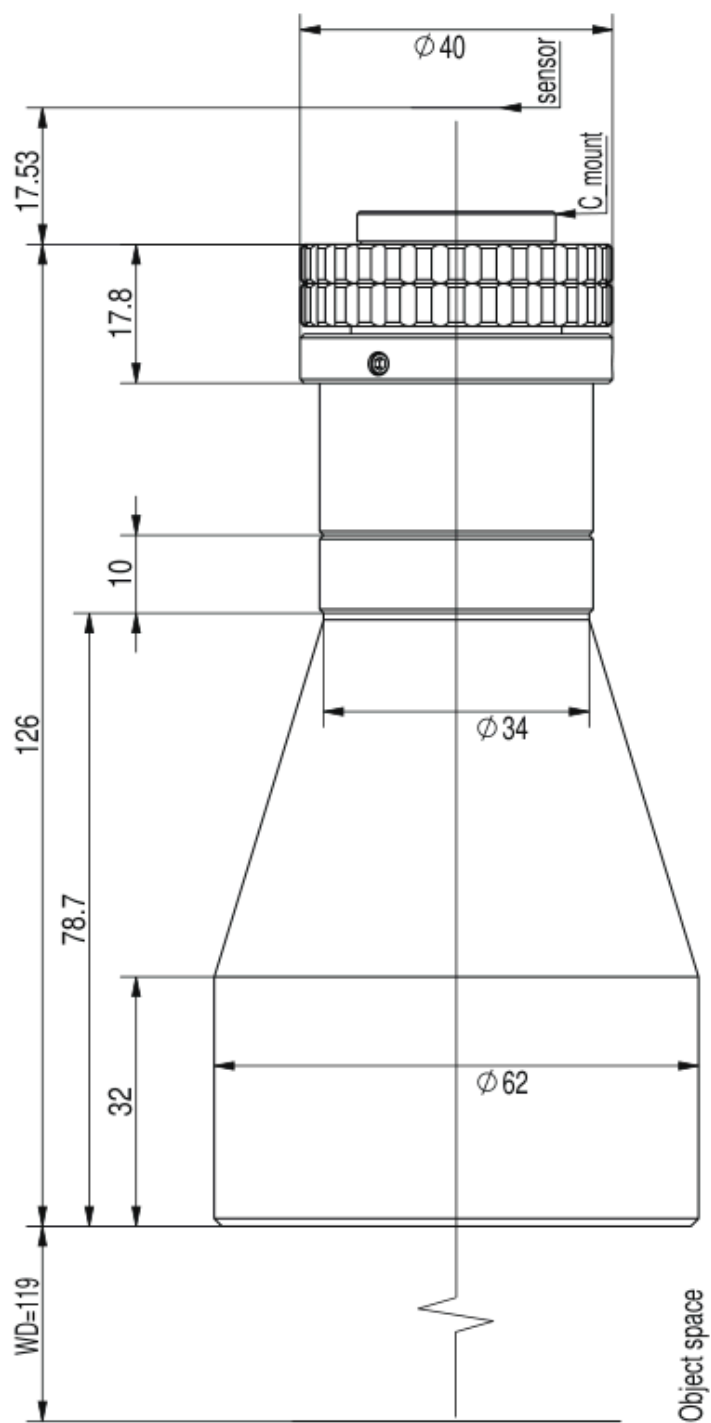
Model	FOV (dia. mm)	Mag. (x)	WD (mm)	F/#	MTF30 (lp/mm)	DoF (mm)	I/O (mm)
LS-VCM230B-26-AL	26	0.439	72±2	5.3	>140	±1	206
LS-VCM230B-36-AL	36	0.314	111±2	5.5	>130	±2	260.5
LS-VCM230B-42-AL	42	0.271	119±2	4.8	>135	±2	262.7
LS-VCM230B-48-AL	48	0.238	128±2	5	>140	±2	283.3
LS-VCM230B-56-AL	56	0.204	138±2	5	>145	±3	315
LS-VCM230B-64-AL	64	0.179	187±2	6.5	>135	±5	351
LS-VCM230B-64P-AL	64	0.179	159±2	4.8	>140	±3.5	342.6
LS-VCM230B-72-AL	72	0.159	178±2	5.4	>140	±5	387.5
LS-VCM230B-80-AL	80	0.143	229±2	5	>145	±7	428.7
LS-VCM230B-100-AL	93	0.123	254±3	5	>140	±8	470.4
LS-VCM230B-110-AL	111	0.103	251±3	5	>145	±10	525.9
LS-VCM230B-136-AL	136	0.084	288±4	4.5	>145	±15	680.5
LS-VCM230B-150-AL	150	0.076	301±4	5	>145	±17	654.5
LS-VCM230B-170-AL	170	0.067	318±4	4.5	>145	±20	737.3
LS-VCM230B-240-AL	238	0.048	410±5	4.5	>145	±26	977.3

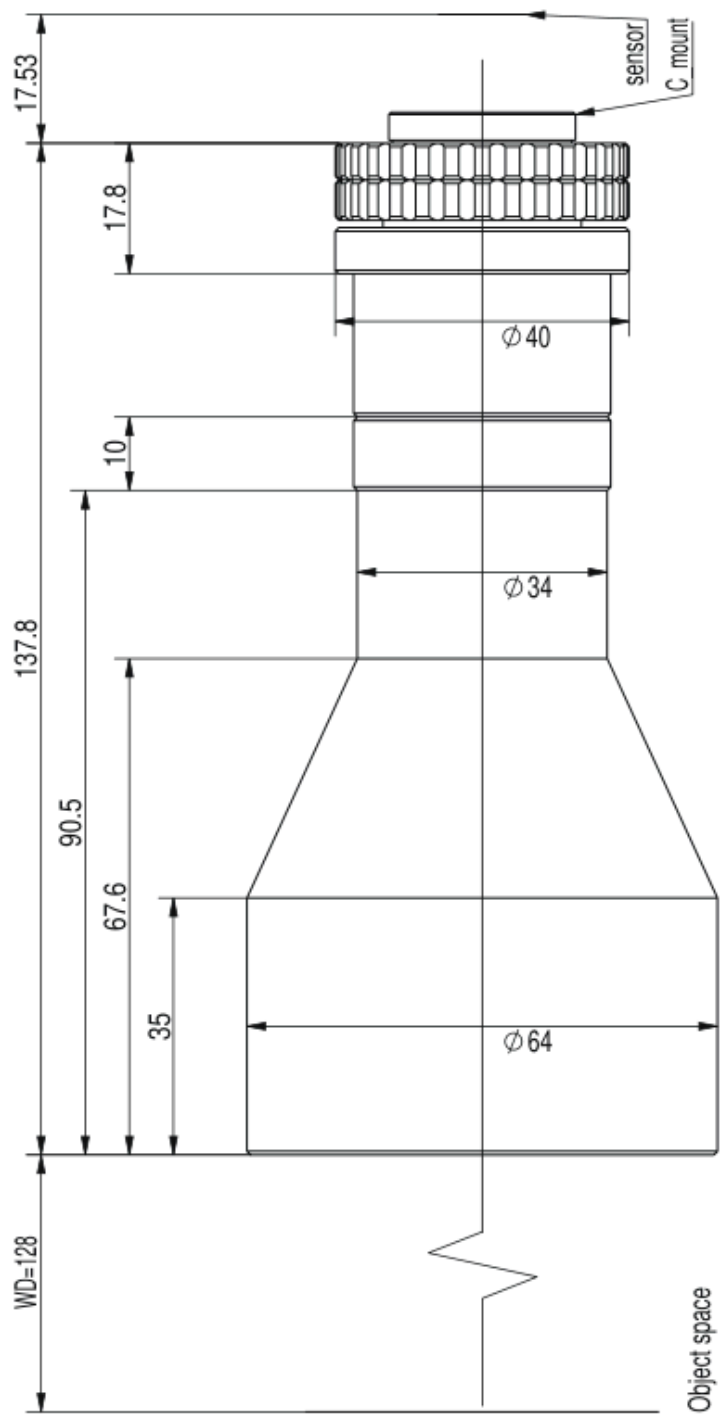
More values per model (Length (mm), Weight (kg), Mount shown in drawing, Field of view on 2/3" ICX625/655(8.47x7.1) (mm), Magnification (x), Working distance (mm), Depth of field (mm), Field of view on 2/3" ICX625/655(8.47x7.1) (mm x mm), Field of view (dia. mm), Object-to-image distance I/O (mm), Field of view with 2/3" ICX625/655(8.47x7.1) (mm), Model (spec table)...) 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	
	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-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-VCM10K (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

