

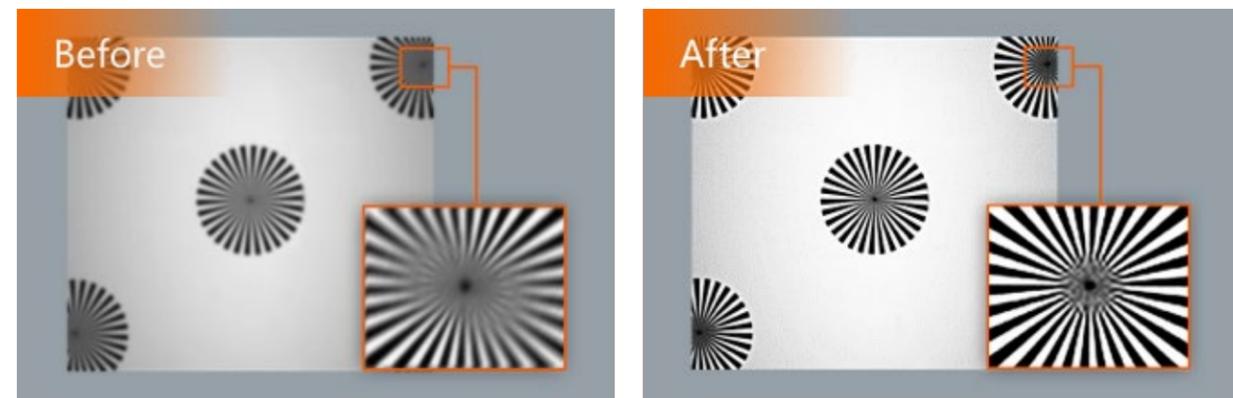
1/1.8" 2/3" 1.1" 4/3" ...

Lens

Self-developed FA series lens especially for vision application characteristics, has the design concept of high performance and low cost. The product features high definition, better image center-edge definition consistency, and higher relative illumination to provide better choices.



Wide sensor size coverage



High resolution with great imaging consistency

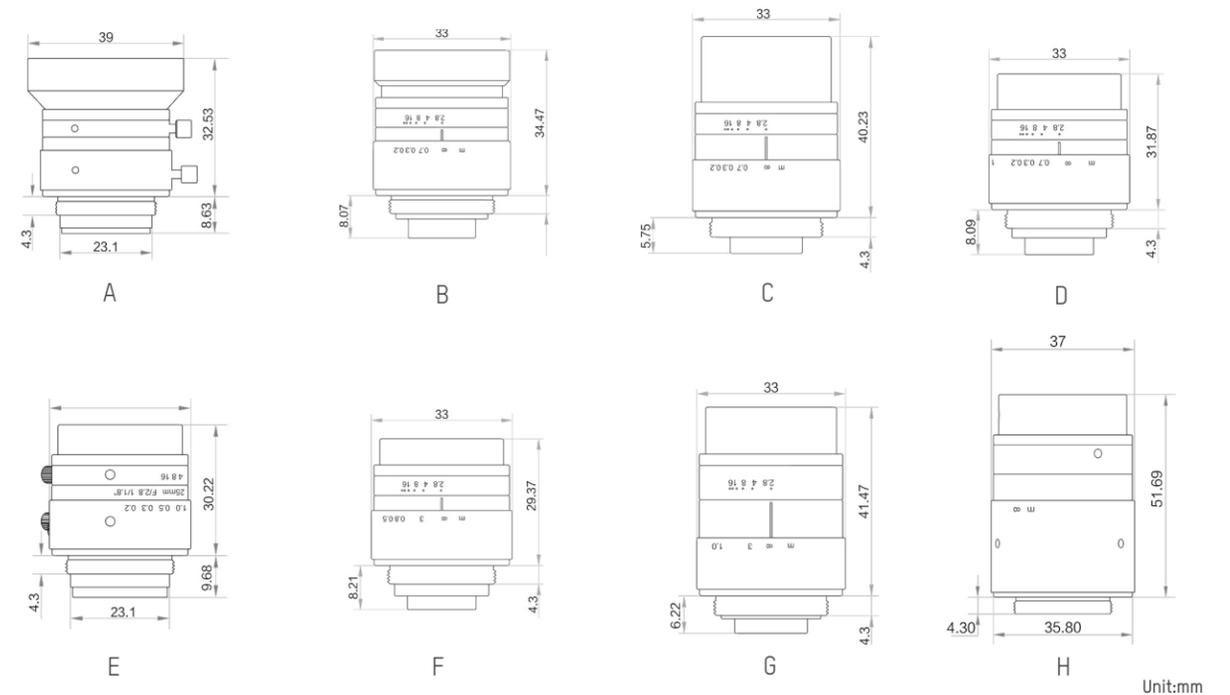
HF-E Series (1/1.8" 6MP)

RoHS

Specifications

Model	Focal Length	F No.	Distortion	Field of View			M.O.D (m)	Filter Thread	Mount	Label
				D	H	V				
MVL-HF0628M-6MPE	6 mm	F2.8-F16	-0.103%	73.49°	63.11°	44.59°	0.1	M37.5 × P0.5	C	A
MVL-HF0828M-6MPE	8 mm	F2.8-F16	0.049%	58.50°	49.46°	34.19°	0.1	M30.5 × P0.5	C	B
MVL-HF1228M-6MPE	12 mm	F2.8-F16	-0.005%	40.94°	34.14°	23.17°	0.1	M27 × P0.5	C	C
MVL-HF1628M-6MPE	16 mm	F2.8-F16	-0.018%	31.28°	25.94°	17.48°	0.1	M27 × P0.5	C	D
MVL-HF2528M-6MPE	25 mm	F2.8-F16	-0.028%	20.32°	16.77°	11.24°	0.2	M27 × P0.5	C	E
MVL-HF3028M-6MPE	30 mm	F2.8-F16	-0.031%	16.99°	14.01°	9.38°	0.2	M27 × P0.5	C	F
MVL-HF4028M-6MPE	40 mm	F2.8-F16	-0.024%	12.78°	10.53°	7.04°	0.25	M27 × P0.5	C	G
MVL-HF5028M-6MPE	50 mm	F2.8-F16	0.030%	9.72°	7.84°	5.24°	0.25	M30.5 × 0.5	C	H

Dimension



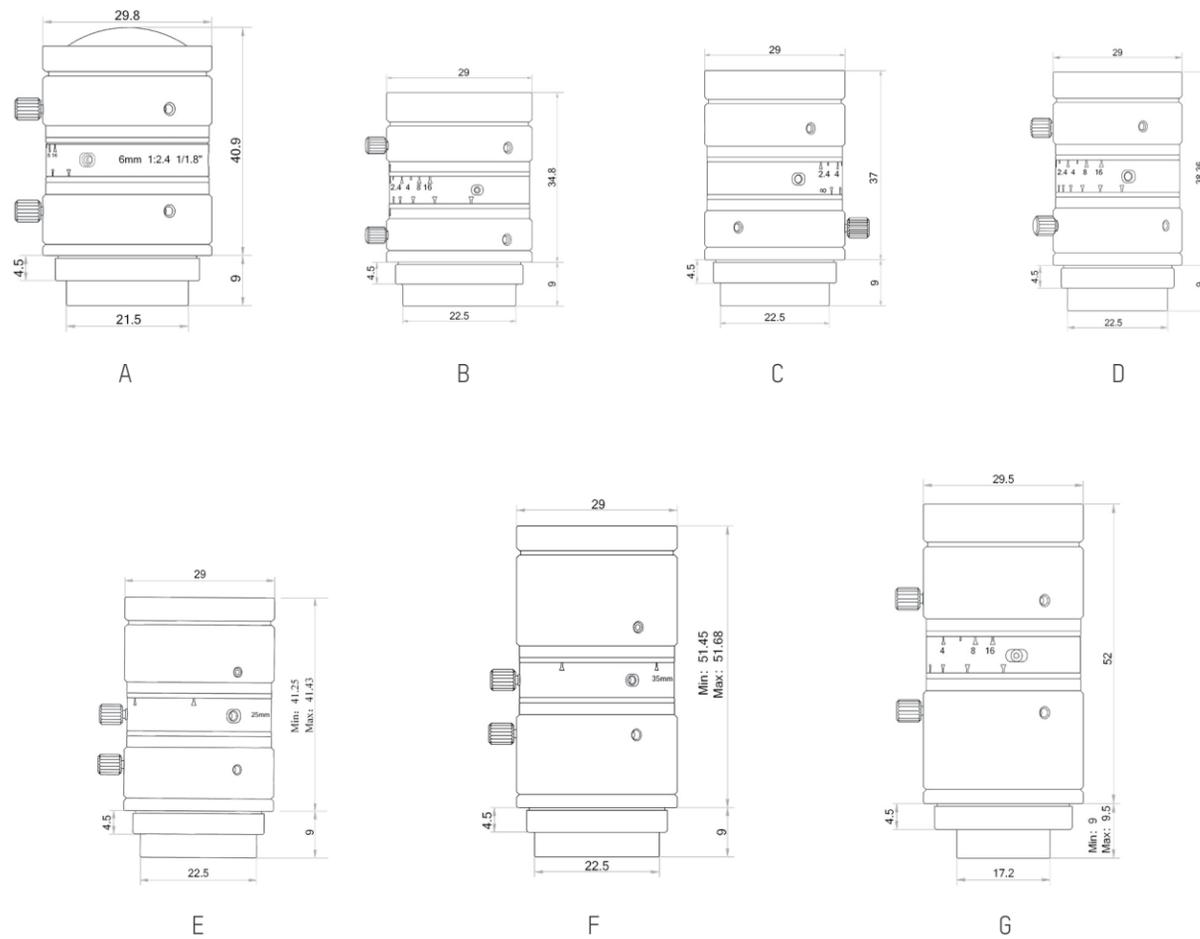
HF-P Series (1/1.8" 10MP)

RoHS

Specifications

Model	Focal Length	F No.	Distortion	Field of View			M.O.D (m)	Filter Thread	Mount	Label
				D	H	V				
MVL-HF0624M-10MP	6 mm	F2.4-F16	0.37%	72.96°	62.46°	44.05°	0.1	/	C	A
MVL-HF0824M-10MP	8 mm	F2.4-F16	-0.67%	58.81°	49.56°	34.04°	0.1	M27 × 0.5	C	B
MVL-HF1224M-10MP	12 mm	F2.4-F16	0.15%	40.2°	33.6°	22.9°	0.1	M27 × 0.5	C	C
MVL-HF1624M-10MP	16 mm	F2.4-F16	-0.02%	30.17°	25.07°	16.92°	0.1	M27 × 0.5	C	D
MVL-HF2524M-10MP	25 mm	F2.4-F16	-0.01%	19.67°	16.19°	10.85°	0.1	M27 × 0.5	C	E
MVL-HF3524M-10MP	35 mm	F2.4-F16	0.01%	13.47°	11.03°	7.34°	0.15	M27 × 0.5	C	F
MVL-HF5024M-10MP	50 mm	F2.4-F16	0.03%	9.10°	7.48°	5.00°	0.3	M27 × 0.5	C	G

Dimension



Unit:mm

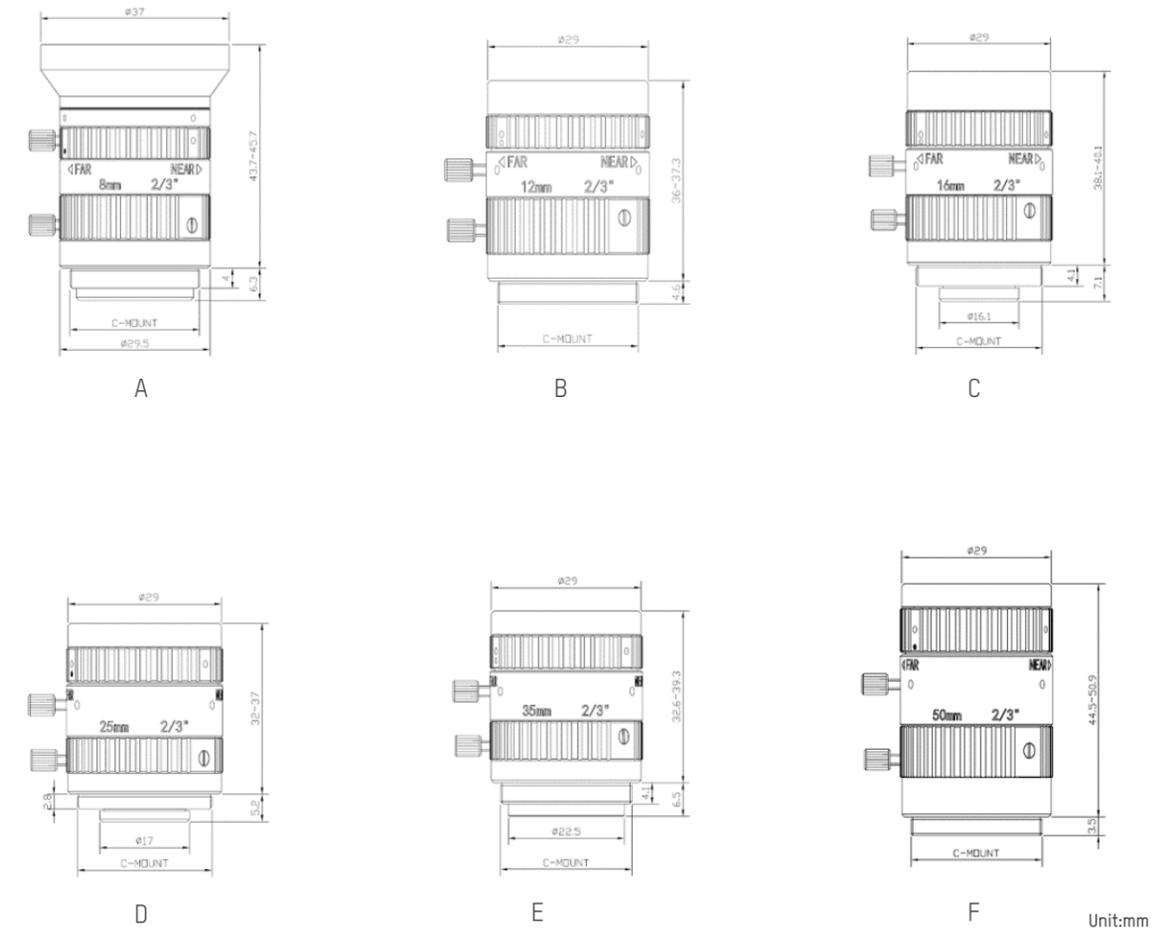
MF-E Series (2/3" 5MP)

RoHS

Specifications

Model	Focal Length	F No.	Distortion	Field of View			M.O.D (m)	Filter Thread	Mount	Label
				D	H	V				
MVL-MF0824M-5MPE	8 mm	F2.4-F16	2.03%	69.46°	55.57°	41.68°	0.10m	M35.5×0.5	C-Mount	A
MVL-MF1224M-5MPE	12 mm	F2.4-F16	-0.16%	49.67°	39.09°	33.08°	0.25m	M27×0.5	C-Mount	B
MVL-MF1618M-5MPE	16 mm	F1.8-F16	0.98%	38.98°	30.75°	25.08°	0.20m	M27×0.5	C-Mount	C
MVL-MF2518M-5MPE	25 mm	F1.8-F16	0.77%	24.26°	18.78°	15.63°	0.20m	M27×0.5	C-Mount	D
MVL-MF3518M-5MPE	35 mm	F1.8-F16	0.02%	17.46°	13.43°	11.26°	0.25m	M27×0.5	C-Mount	E
MVL-MF5028M-5MPE	50 mm	F2.8-F16	0.08%	12.83°	9.86°	8.26°	0.40m	M27×0.5	C-Mount	F

Dimension



Unit:mm

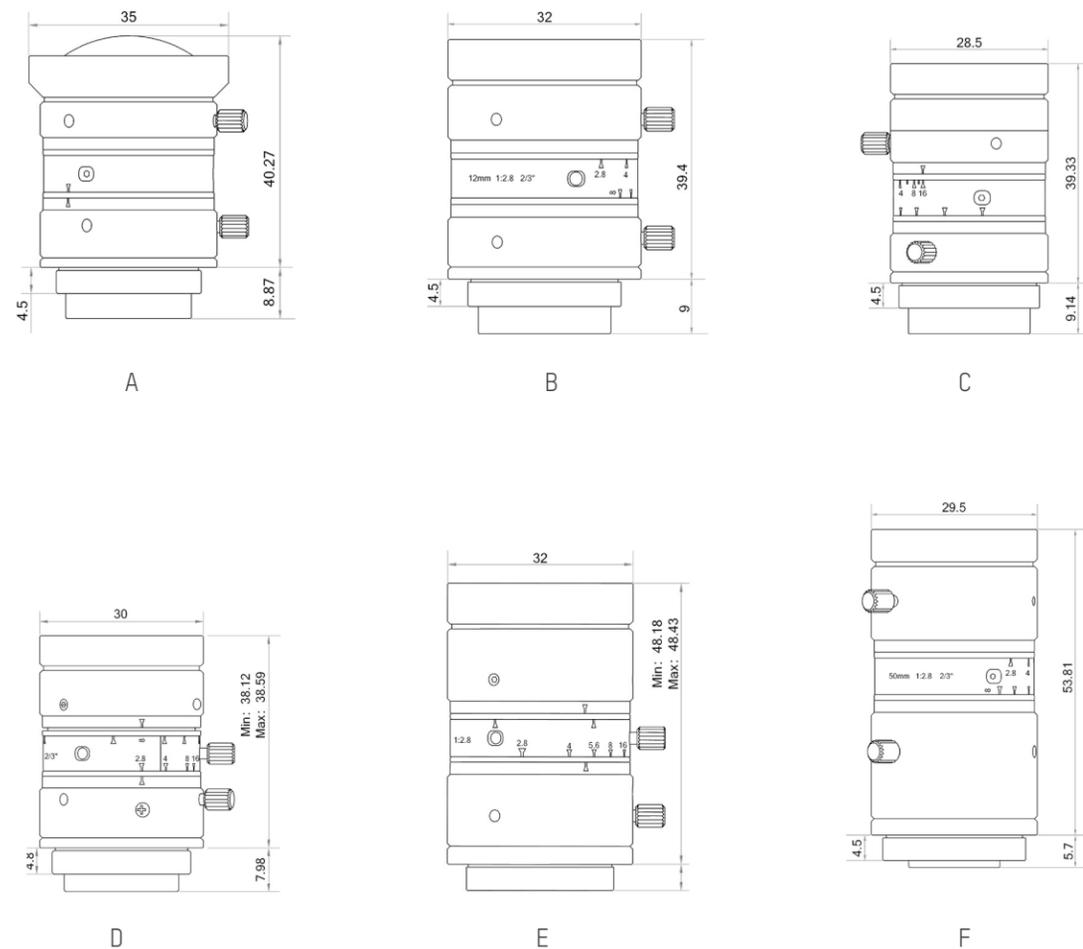
MF Series (2/3" 8MP)

RoHS

Specifications

Model	Focal Length	F No.	Distortion	Field of View			M.O.D (m)	Filter Thread	Mount	Label
				D	H	V				
MVL-MF0828M-8MP	8 mm	F2.8-F16	0.28%	68.46°	54.97°	47.06°	0.1	/	C	A
MVL-MF1228M-8MP	12 mm	F2.8-F16	0.28%	48.57°	37.88°	32.04°	0.1	M30.5 × 0.5	C	B
MVL-MF1628M-8MP	16 mm	F2.8-F16	0.33%	37.39°	28.9°	24.33°	0.1	M27 × 0.5	C	C
MVL-MF2528M-8MP	25 mm	F2.8-F16	0.01%	23.23°	17.78°	14.91°	0.1	M27 × 0.5	C	D
MVL-MF3528M-8MP	35 mm	F2.8-F16	0.02%	15.26°	11.65°	9.76°	0.15	M30.5 × 0.5	C	E
MVL-MF5028M-8MP	50 mm	F2.8-F16	0.01%	11.67°	8.81°	7.38°	0.4	M27 × 0.5	C	F

Dimension



Unit:mm

KF-E Series (1.1" 12MP)

RoHS

Specifications

Model	Focal Length	F No.	Distortion	Field of View			M.O.D (m)	Filter Thread	Mount	Label
				D	H	V				
MVL-KF0618M-12MPE	6 mm	F1.8-F16	2.50%	118.2°	104.9°	86.2°	0.1	/	C	A
MVL-KF0814M-12MPE	8 mm	F1.4-F16	5.50%	98.4°	84.8°	68°	0.1	M58 × 0.75	C	B
MVL-KF1228M-12MPE	12 mm	F2.8-F22	1.50%	66.7°	57°	45°	0.1	/	C	C
MVL-KF1628M-12MPE	16 mm	F2.8-F16	0.15%	55.6°	45.8°	35.3°	0.1	M43 × 0.75	C	D
MVL-KF2528M-12MPE	25 mm	F2.8-F22	0.10%	37.6°	30.4°	23°	0.1	M35.5 × 0.5	C	E
MVL-KF3528M-12MPE	35 mm	F2.8-F22	0.02%	28.3°	22.6°	17°	0.2	M35.5 × 0.5	C	F
MVL-KF5028M-12MPE	50 mm	F2.8-F22	0.04%	19.9°	15.9°	11.9°	0.3	M35.5 × 0.5	C	G

Dimension



Unit:mm

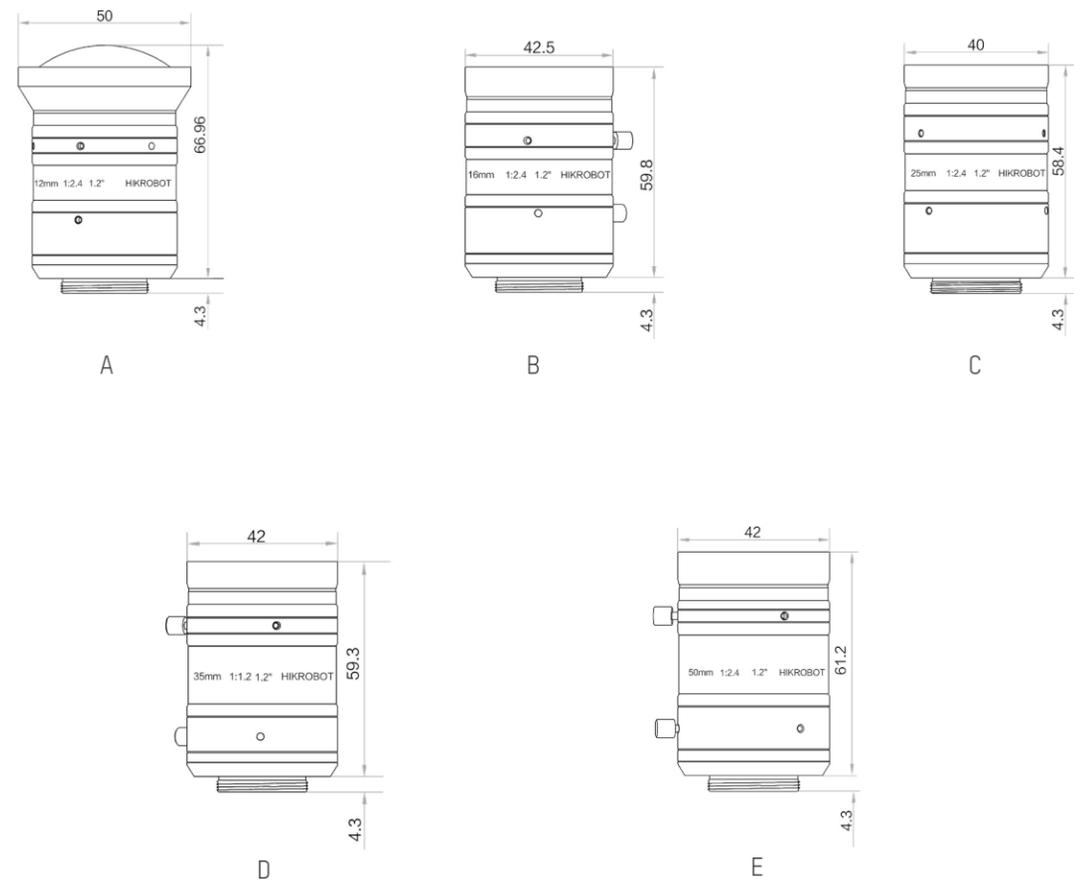
■ KF-P Series (1.2" 25MP)

RoHS

Specifications

Model	Focal Length	F No.	Distortion	Field of View			M.O.D (m)	Filter Thread	Mount	Label
				D	H	V				
MVL-KF1224M-25MP	12 mm	F2.4-F16	0.39%	76.37°	62.32°	55.34°	0.1	/	C	A
MVL-KF1624M-25MP	16 mm	F2.4-F16	0.07%	61.61°	48.82°	42.89°	0.1	M40.5 × 0.5	C	B
MVL-KF2524M-25MP	25 mm	F2.4-F16	-0.04%	40.80°	31.42°	27.34°	0.15	M37 × 0.5	C	C
MVL-KF3524M-25MP	35 mm	F2.4-F16	0.02%	29.48°	22.51°	19.54°	0.15	M40.5 × 0.5	C	D
MVL-KF5024M-25MP	50 mm	F2.4-F16	0.01%	20.60°	15.66°	13.57°	0.25	M40.5 × 0.5	C	E

Dimension



Unit:mm

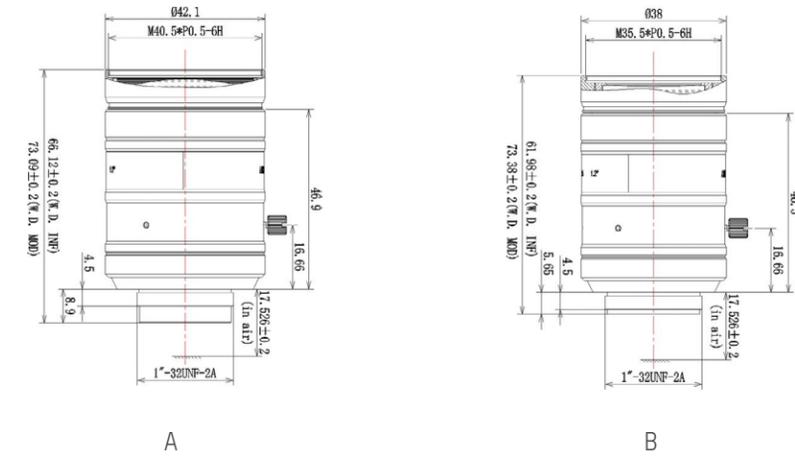
■ KF-P Anti Vibration Series (1.2" 25MP)

RoHS

Specifications

Model	Focal Length	F No.	Distortion	Field of View			M.O.D (m)	Filter Thread	Mount	Label
				D	H	V				
MVL-KF1640-25MP *	16 mm	F4	0.04%	61.7°	48.77°	42.83°	0.08	M40.5 × 0.5	C	A
MVL-KF2540-25MP *	25 mm	F4	-0.08%	41.6°	32.04°	27.88°	0.08	M35.5 × 0.5	C	B

Dimension



Unit:mm

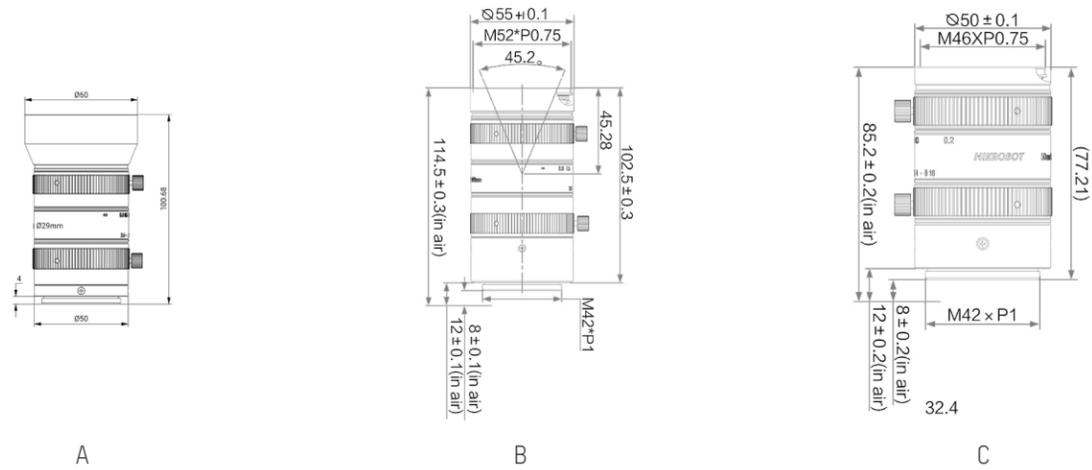
AF Series (Half Frame Lens)

RoHS

Specifications

Model	Focal Length	F No.	Distortion	Field of View	Magnification Range	Filter Thread	Mount	Label
MVL-AF2524M-M42 *	25 mm	F2.4-F16	-0.34%	H(4K7 μ m, 28.7mm):56°	0.143x-0.001x	M58 \times 0.75	M42 \times P1	A
MVL-AF3528M-M42A *	35 mm	F2.8-F16	-0.16%	H(4K7 μ m, 28.7mm):42°	0.164x-0.001x	M52 \times 0.75	M42 \times P1	B
MVL-AF5028M-M42A *	50 mm	F2.8-F16	0.05%	H(4K7 μ m, 28.7mm):31°	0.267-0.001x	M46 \times 0.75	M42 \times P1	C

Dimension



Unit:mm

LF Series (Large Image Circle Lens)

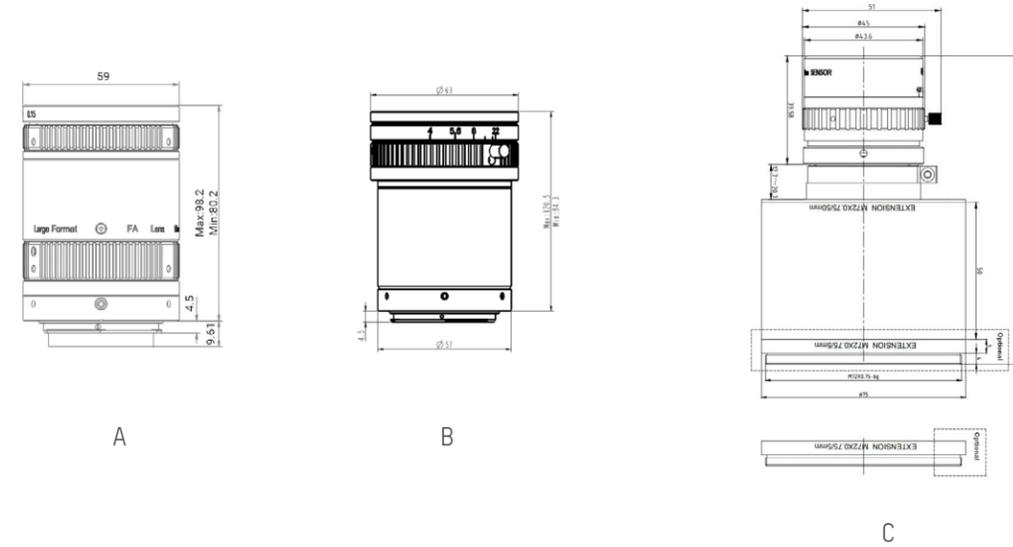
RoHS

Specifications

Model	Focal Length	F No.	Distortion	Field of View	Magnification Range	Filter Thread	Mount	Label
MVL-LF5040M-F	50 mm	F4.0-F22	0.41%	H(8K7 μ m, 57.4mm): 52.8°	0.33x-0.01x	M52 \times 0.75	F	A
MVL-LF8040M-F	80 mm	F4.0-F22	0.12%	H(8K7 μ m, 57.4mm): 31.6°	0.4x-0.01x	M52 \times 0.75	F	B
MVL-LF8040M-021V-M72 *	80 mm	F4.0-F22	-0.11%	H(8K7 μ m, 57.4mm): 33°	0.31x-0.12x	M39 \times 0.5	M72 \times P0.75	C

Notice: * will be released soon
Horizontal FOV: Calculated with a line scan camera (4K 7 μ m, chip horizontal size: 28.7mm)

Dimension



Unit:mm