

MVL-HF0628M-6MPE

1/1.8" 6mm 6MP FA LENS

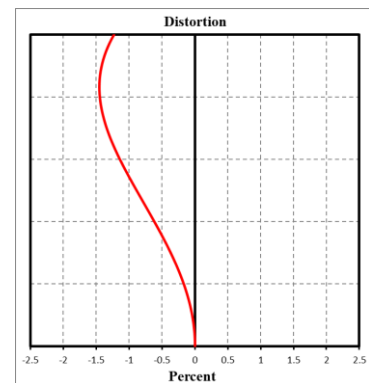
HF-E series FA Lens are optimized for machine vision light sources and sensors, with high resolution, excellent image uniformity, and good stability. Featured with fixed focal length, fixed iris and compact size, it is suitable for machine vision industry applications.



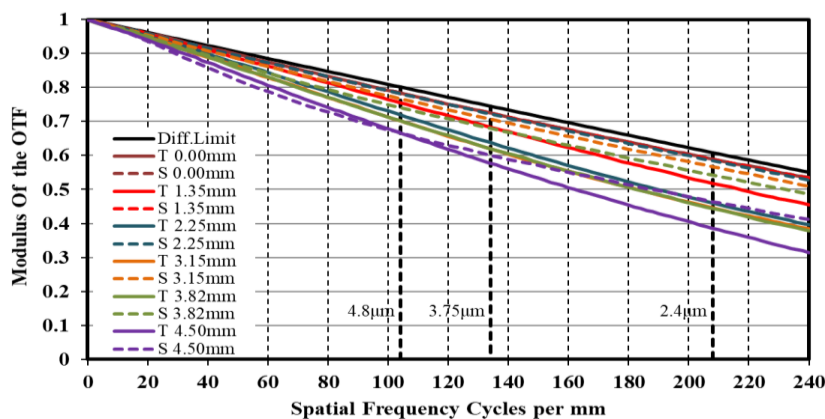
Key Features

- Higher image clarity and contrast ratio
- Ultra-low distortion and higher relative illumination rate
- Good optical performance at ultra-short working distance
- Compact design, convenient for device integration

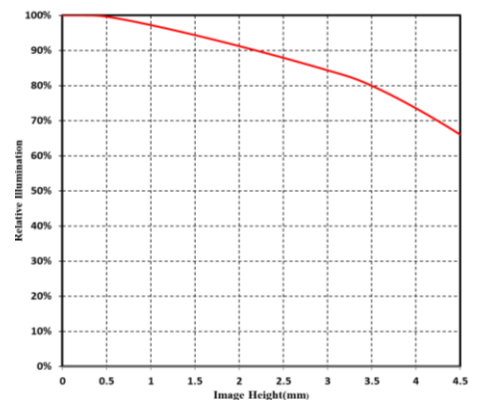
Distortion



MTF



Relative Illumination

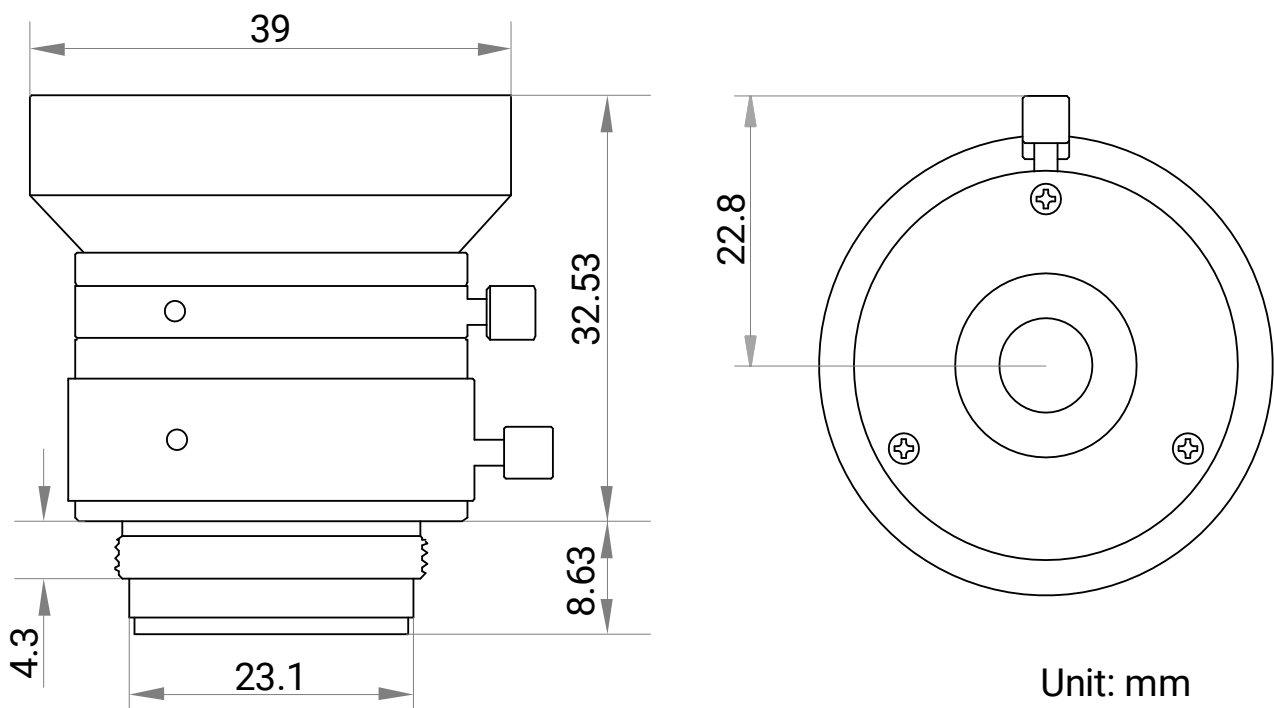


Note: The above curves are the simulated results based on F2.8, $\beta=-0.0196$, WD=300 mm.

Specification

Model	MVL-HF0628M-6MPE
Parameter	Fixed focal length, Manual iris, 6MP, FA Lens
Performance	
Focal length	6 mm
F-number	F2.8 to F16
Image size	Ø9 mm (1/1.8")
Distortion	-0.103%
Minimum object distance	0.1 m
Field of view	D (8.96 mm): 73.49° H (7.38 mm): 63.11° V (4.92 mm): 44.59°
Mechanical	
Iris control	Manual
Focus control	Manual
Filter thread	M37.5 × P0.5
Mount	C-mount
Flange back length	17.526 mm
Dimension	Ø39 mm × 32.53 mm (Ø1.5" × 1.3")
Weight	65.8 g (0.1 lb.)
Temperature	-10 °C to 50 °C (14 °F to 122 °F)
General	
Certification	RoHS 2.0

Dimension



Unit: mm

Field of View

Extension (mm)	Working Distance (mm)		Magnification	Field of View (mm)			
				1/1.8"		1/2"	
				H(7.38mm)	V(4.92mm)	H(6.22mm)	V(4.67mm)
1	near	14	-0.217	36.33	23.38	30.07	22.13
	far	24	-0.162	48.15	31.23	40.02	29.57
0		100	-0.054	141.39	93.24	118.6	88.4
		150	-0.037	201.68	133.41	169.47	126.51
		200	-0.029	261.94	173.57	220.31	164.61
		250	-0.023	322.19	213.72	271.14	202.7
		300	-0.020	382.43	253.87	321.96	240.79
		350	-0.017	442.67	294.01	372.79	278.88
		400	-0.015	502.9	334.16	423.61	316.97
		450	-0.013	563.13	374.3	474.43	355.05
		500	-0.012	623.36	414.45	525.25	393.14
		550	-0.011	683.59	454.59	576.07	431.23
		600	-0.010	743.82	494.73	626.89	469.31
		650	-0.009	804.05	534.87	677.71	507.4
		700	-0.009	864.28	575.02	728.53	545.48
		800	-0.008	984.74	655.3	830.16	621.65
		900	-0.007	1105.19	735.58	931.79	697.82
		1000	-0.006	1225.64	815.87	1033.43	773.99

HIKROBOT

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