

MVL-HF3028M-6MPE

1/1.8" 30mm 6MP FA LENS

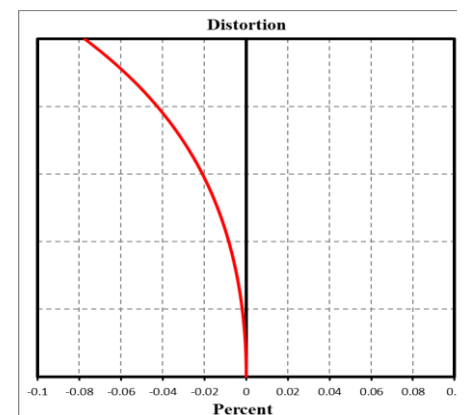
HF-E series FA Lens are optimized for machine vision light sources and sensor, with high resolution, excellent image quality, high transmittance and good stability. Featured with fixed focal length, manual aperture and compact size, it is suitable for machine vision industry applications and ideal for industrial cameras.



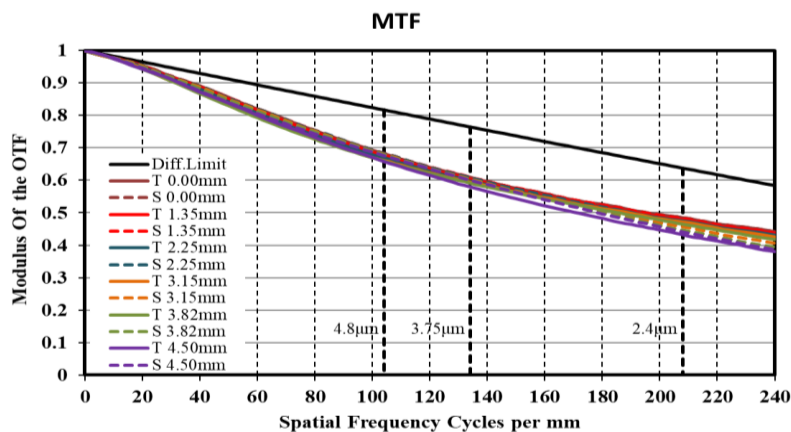
Key Features

- High 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

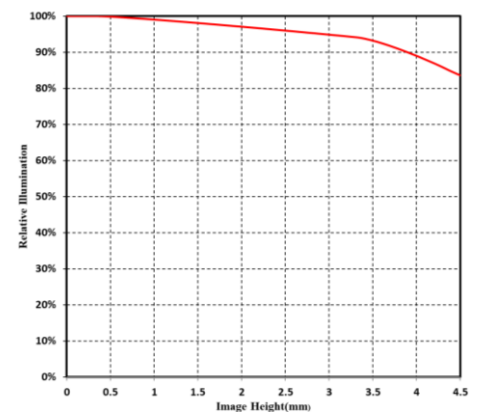
Distortion



MTF



Relative Illumination



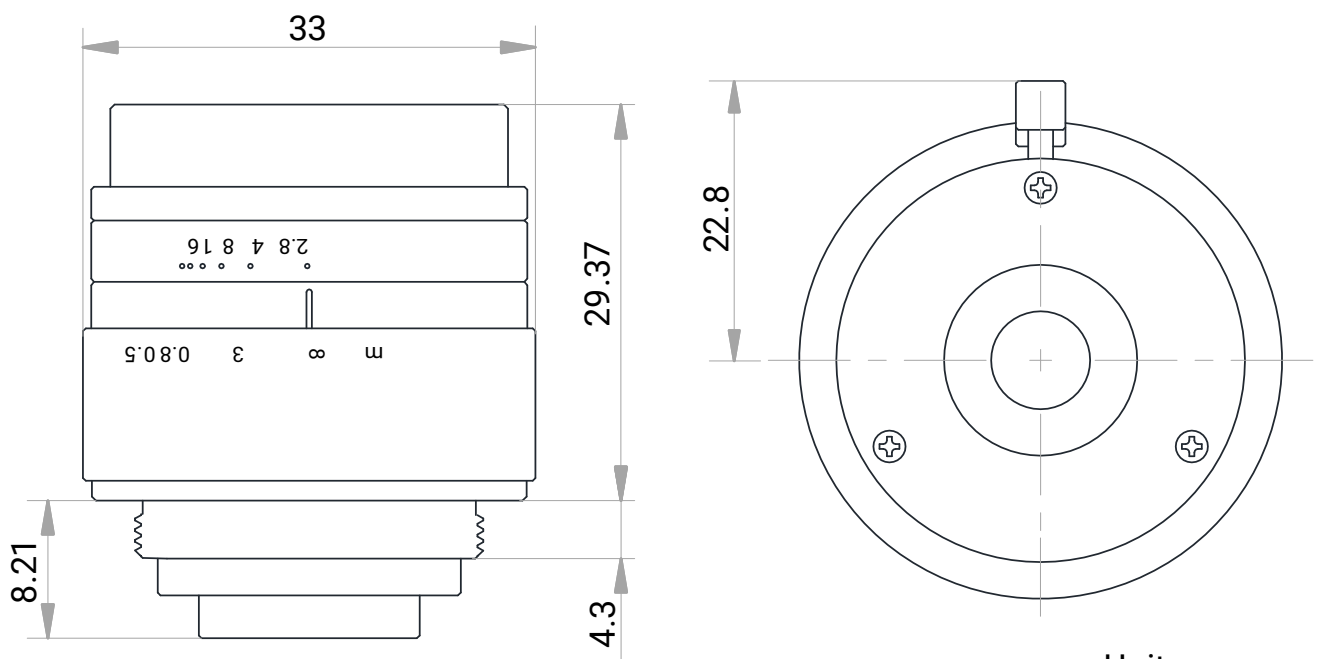
Note: The above curves are the simulate results based on F2.8, $\beta=-0.0603$, WD=500 mm.



Specification

Parameter	Model	MVL-HF3028M-6MPE
	Fixed focal length, Manual iris, 6MP, FA Lens	
Performance		
Focal length	30 mm	
F-number	F2.8 to F16	
Image size	Ø9 mm (1/1.8")	
Distortion	−0.031%	
Minimum object distance	0.2 m	
Field of view	D (8.96 mm): 16.99° H (7.38 mm): 14.01° V (4.92 mm): 9.38°	
Mechanical		
Iris control	Manual	
Focus control	Manual	
Filter thread	M27 × P0.5	
Mount	C-mount	
Flange back length	17.526 mm	
Dimension	Ø33 mm × 29.4 mm (Ø1.3" x 1.2")	
Weight	49.2 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)	H(4.92mm)	H(6.22mm)	V(4.67mm)
10	near	62	-0.514	14.43	9.60	12.15	9.11
	far	111	-0.296	25.20	16.72	21.18	15.86
5	near	92	-0.329	22.57	15.01	19.00	14.25
	far	225	-0.148	50.03	33.29	42.12	31.59
2	near	134	-0.217	34.16	22.74	28.77	21.58
	far	569	-0.059	124.40	82.96	104.86	78.75
1	near	160	-0.179	41.26	27.47	34.75	26.07
	far	1141	-0.030	248.18	165.64	209.29	157.24
0	200		-0.142	52.09	34.69	43.88	32.93
	250		-0.115	64.29	42.82	54.16	40.64
	300		-0.097	76.21	50.76	64.20	48.18
	350		-0.084	87.94	58.58	74.09	55.60
	400		-0.074	99.52	66.31	83.85	62.94
	450		-0.067	111.00	73.97	93.53	70.21
	500		-0.060	122.40	81.57	103.14	77.43
	550		-0.055	133.73	89.14	112.70	84.61
	600		-0.051	145.00	96.66	122.20	91.75
	650		-0.047	156.23	104.16	131.67	98.86
	700		-0.044	167.42	111.63	141.11	105.95
	800		-0.039	189.70	126.50	159.90	120.08
	900		-0.035	211.88	141.31	178.61	134.14
	1000		-0.032	233.98	156.07	197.26	148.15



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