

MVL-HF2528M-6MPE

1/1.8" 25mm 6MP FA LENS

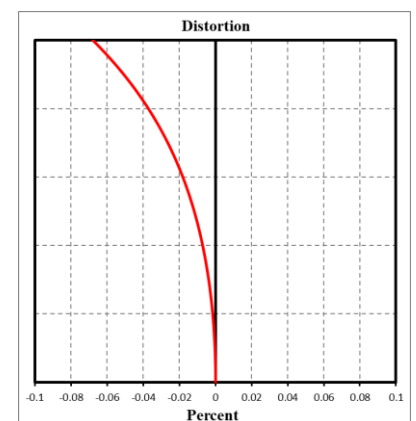
HF-E series FA Lens are optimized for machine vision light sources and sensor, with high resolution, excellent image quality, high transmittance and good stability. Featured with fixed focal length, manual aperture and compact size, it is suitable for machine vision industry applications and ideal for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



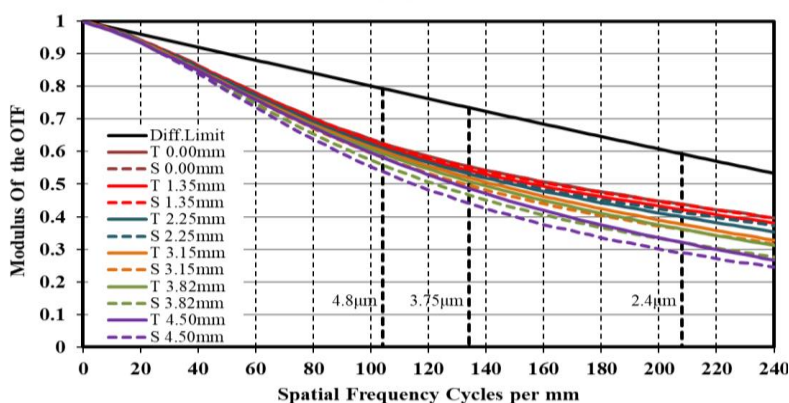
Key Features

- 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

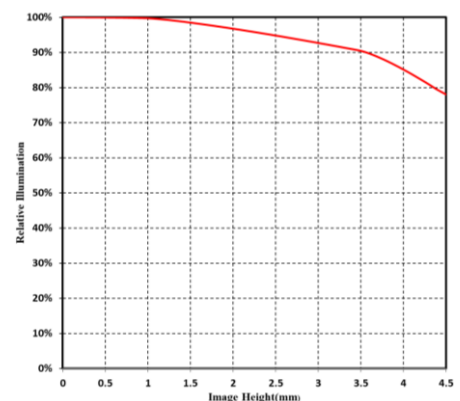
Distortion



MTF



Relative Illumination



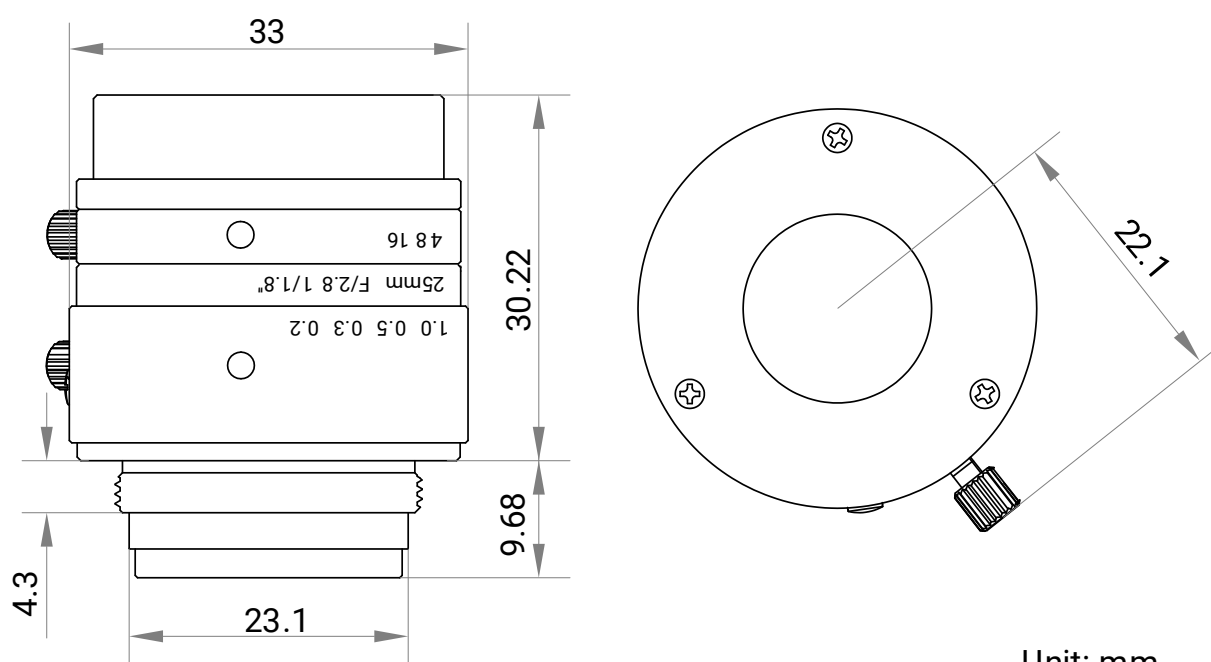
Note: The above curves are the simulate results based on F2.8, $\beta=-0.0492$, WD=500 mm.



Specification

Parameter	Model	MVL-HF2528M-6MPE
	Fixed focal length, Manual iris, 6MP, FA Lens	
Performance		
Focal length	25 mm	
F-number	F2.8 to F16	
Image size	Ø9 mm (1/1.8")	
Distortion	−0.028%	
Minimum object distance	0.2 m	
Field of view	D (8.96 mm): 20.32° H (7.38 mm): 16.77° V (4.92 mm): 11.24°	
Mechanical		
Iris control	Manual	
Focus control	Manual	
Filter thread	M27 × P0.5	
Mount	C-mount	
Flange back length	17.526 mm	
Dimension	Ø33 mm × 30.22 mm (Ø1.3" x 1.2")	
Weight	48.1 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	50	-0.567	13.09	8.70	11.02	8.26
	far	73	-0.379	19.68	13.05	16.54	12.38
5	near	75	-0.343	21.64	14.39	18.21	13.66
	far	143	-0.190	39.12	26.01	32.92	24.68
2	near	118	-0.208	35.65	23.72	30.01	22.51
	far	352	-0.076	97.25	64.81	81.95	61.51
1	near	147	-0.163	45.50	30.29	38.32	28.74
	far	700	-0.038	193.96	129.38	163.52	122.81
0	200		-0.209	62.95	49.58	59.64	47.08
	250		-0.173	77.91	59.71	71.82	56.70
	300		-0.147	92.63	70.44	84.73	66.90
	350		-0.128	107.20	81.17	97.64	77.09
	400		-0.113	121.65	91.91	110.55	87.29
	450		-0.083	136.02	124.12	149.30	117.88
	500		-0.077	150.32	134.86	162.22	128.08
	550		-0.071	164.57	145.59	175.13	138.27
	600		-0.066	178.78	156.33	188.05	148.47
	650		-0.062	192.95	167.07	200.97	158.67
	700		-0.058	207.10	177.81	213.88	168.87
	800		-0.055	235.32	188.54	226.80	179.07
	900		-0.052	263.47	199.28	239.72	189.27
	1000		-0.049	291.56	210.02	252.63	199.46



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