

MVL-HF2528M-6MPE 1/1.8" 25mm 6MP FA LENS

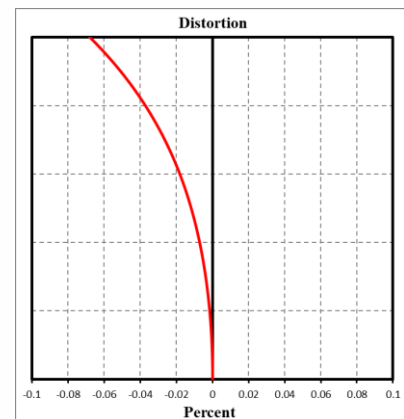
HF-E series FA Lens are optimized for machine vision light sources and sensor, with high resolution, excellent image quality, high transmittance and good stability. Featured with fixed focal length, manual aperture and compact size, it is suitable for machine vision industry applications and ideal for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



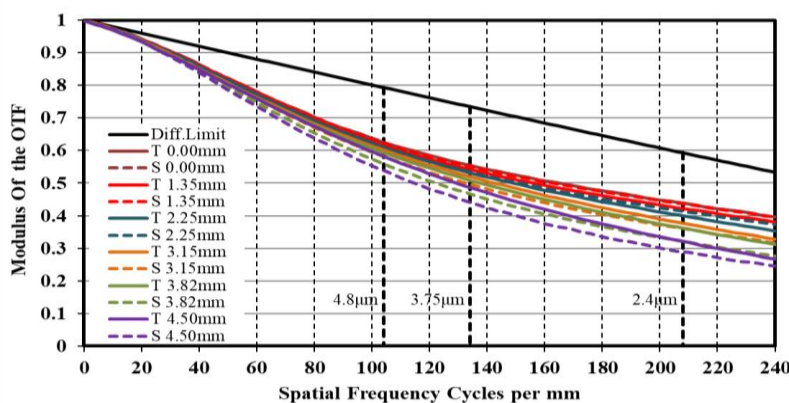
Key Features

- 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

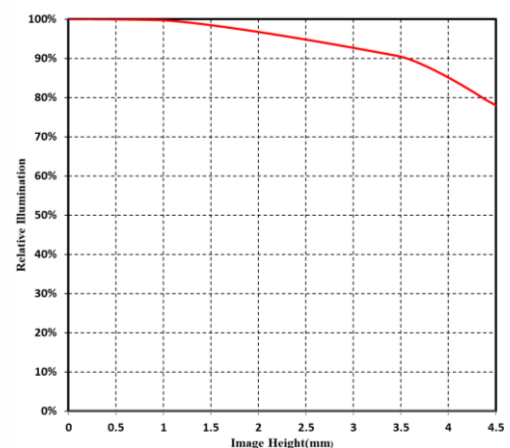
Distortion



MTF



Relative Illumination



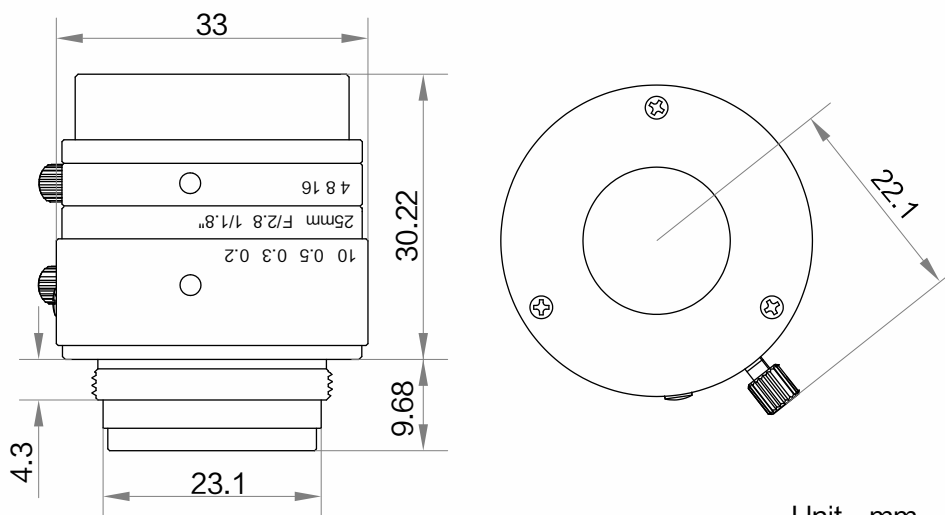
Note: The above curves are the simulate results based on F2.8, $\beta = -0.0492$, WD=500 mm.



Specification

Model		MVL-HF2528M-6MPE
Parameter	Fixed focal length, Manual iris, 6MP, FA Lens	
Performance		
Focal Length	25 mm	
F-Number	F2.8 ~ F16	
Image Size	Φ9 mm(1/1.8'')	
Distortion	-0.028%	
Minimum Operation Distance	0.2 m	
Field of View	D (8.96mm) : 20.32° H (7.38mm) : 16.77° V (4.92mm) : 11.24°	
Mechanical		
Iris Control	Manual	
Focus Control	Manual	
Filter Thread	M27×P0.5	
Mount	C-Mount	
Flange Back Length	17.526 mm	
Dimension	Φ33×30.22 mm	
Weight	48.1 g	
Temperature	-10 ~ 50℃	
General		
Certification	RoHS2.0	

Dimension



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	-0.118	49.58	59.64	47.08
	250		-0.173	-0.095	59.71	71.82	56.70
	300		-0.147	-0.080	70.44	84.73	66.90
	350		-0.128	-0.069	81.17	97.64	77.09
	400		-0.113	-0.061	91.91	110.55	87.29
	450		-0.083	-0.054	124.12	149.30	117.88
	500		-0.077	-0.049	134.86	162.22	128.08
	550		-0.071	-0.045	145.59	175.13	138.27
	600		-0.066	-0.041	156.33	188.05	148.47
	650		-0.062	-0.038	167.07	200.97	158.67
	700		-0.058	-0.036	177.81	213.88	168.87
	800		-0.055	-0.031	188.54	226.80	179.07
	900		-0.052	-0.028	199.28	239.72	189.27
	1000		-0.049	-0.025	210.02	252.63	199.46

HIKROBOT

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