

MVL-KF2528M-12MP

1.1" 25mm 12MP FA LENS

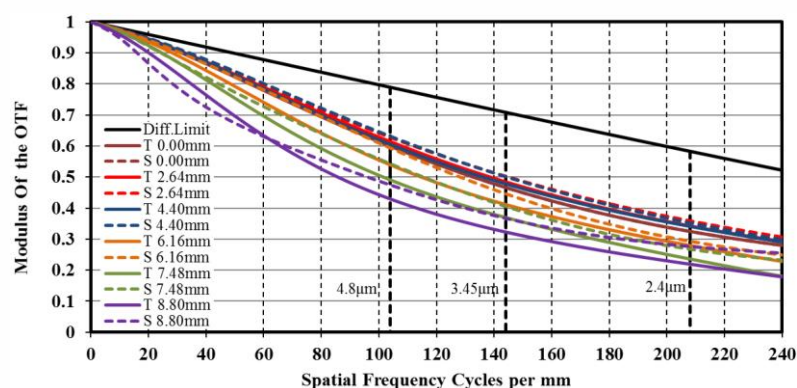
KF series FA Lens are optimized for machine vision light sources and sensors, with high resolution, excellent image uniformity, high transmittance and good stability. Featured with fixed focal length, manual aperture and compact size, it is suitable for machine vision industry applications.



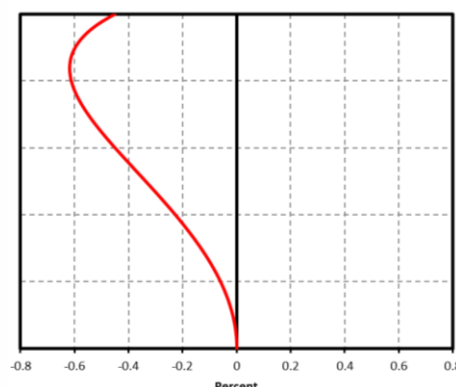
Key Features

- High resolution, high definition of the whole image
- Low distortion, high illumination relative
- Excellent mechanism design, improve the shock resistance and high/low temperature stability
- Multilayer wide band coating, ensuring high transmittance of visible and near infrared light
- Support ultra short working distance, maintaining excellent optical properties at different object distances

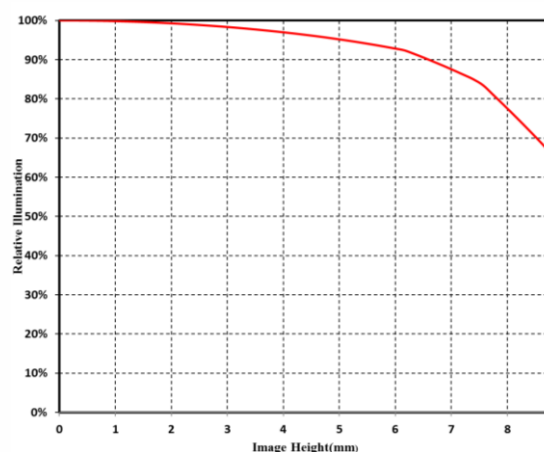
MTF



Distortion



Relative Illumination



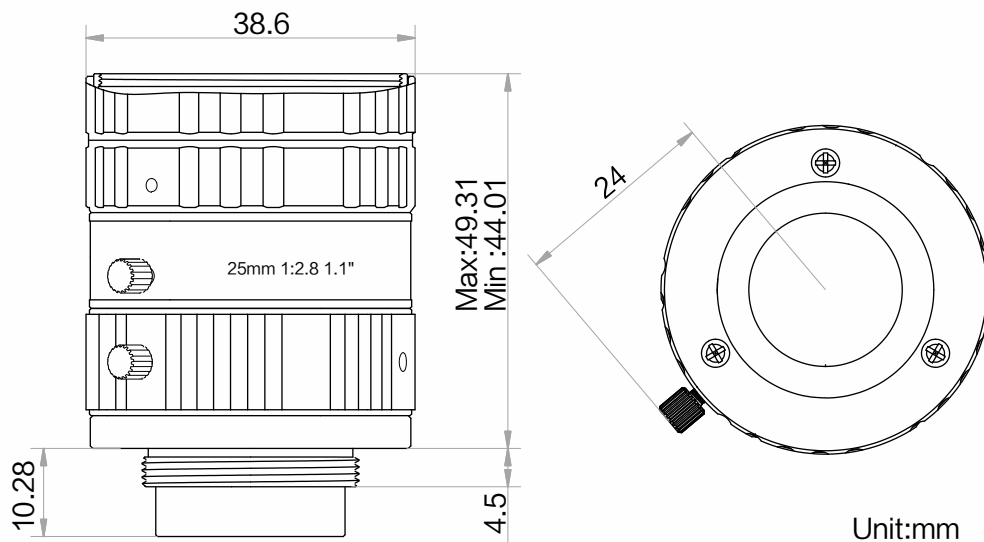
Note: The above curves are the simulate results based on F2.8, $\beta=-0.079$, WD=300 mm.



Specification

	Model	MVL-KF2528M-12MP
Parameter		Fixed focal length, Manual iris, 12MP, FA Lens
Performance		
Focal Length		25 mm
F-Number		F2.8 ~ F16
Image Size		Φ17.6 mm(1.1")
Optical Distortion		0.40%
Minimum Operation Distance		0.15 m
Field of View		D (17.52mm): 36.7° H (14.14mm): 29.6° V (10.35mm): 22.1°
Mechanical		
Iris Control		Manual
Focus Control		Manual
Filter Thread		M35.5*0.5
Mount		C-Mount
Flange Back Length		17.526 mm
Dimension		Φ38.6 × 49.31 mm
Weight		133 g
Temperature		-10 ~ 50℃
General		
Certification		RoHS2.0

Dimension



Field of View

Extension (mm)	Working Distance (mm)	Magnifica tion	Field of View (mm)					
			1.1"		1"		2/3"	
			H(14.14mm)	V(10.35mm)	H(12.45mm)	V(9.83mm)	H(8.45mm)	V(7.07mm)
12	25	-0.632	22.72	16.53	19.95	15.69	13.46	11.24
6	50	-0.386	37.20	27.08	32.68	25.70	22.06	18.43
3	75	-0.277	51.74	37.68	45.45	35.76	30.69	25.64
2	100	-0.217	66.02	48.12	58.03	45.67	39.20	32.76
0	150	-0.151	95.03	69.28	83.53	65.76	56.45	47.17
	200	-0.116	123.26	89.96	108.41	85.40	73.33	61.28
	250	-0.094	151.48	110.63	133.27	105.03	90.20	75.40
	300	-0.079	179.68	131.30	158.13	124.66	107.07	89.51
	350	-0.068	207.88	151.97	182.98	144.29	123.94	103.62
	400	-0.060	236.07	172.63	207.83	163.91	140.80	117.73
	450	-0.054	264.26	193.30	232.68	183.54	157.67	131.84
	500	-0.049	292.45	213.96	257.52	203.16	174.54	145.94
	550	-0.044	320.64	234.62	282.37	222.78	191.40	160.05
	600	-0.041	348.82	255.28	307.21	242.41	208.27	174.16
	650	-0.038	377.01	275.94	332.05	262.03	225.14	188.27
	700	-0.035	405.19	296.60	356.89	281.65	242.00	202.38
	750	-0.033	433.37	317.26	381.74	301.27	258.87	216.49
	800	-0.031	461.55	337.92	406.58	320.89	275.73	230.60
	850	-0.029	489.73	358.58	431.42	340.51	292.60	244.70
	900	-0.027	517.92	379.24	456.26	360.14	309.46	258.81
	950	-0.026	546.10	399.90	481.10	379.76	326.33	272.92
	1000	-0.025	574.28	420.56	505.94	399.38	343.19	287.03



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