

MVL-KF2524M-25MP

1.2" 25mm 25MP FA LENS

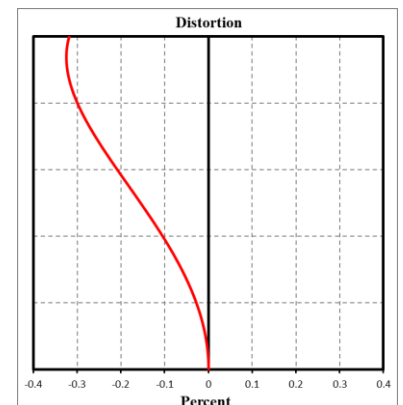
KF-P series FA Lens are optimized for machine vision light sources and sensors, with high resolution, excellent image uniformity, high transmittance and good stability. Featured with fixed focal length, manual aperture and compact size, it is suitable for machine vision industry applications.



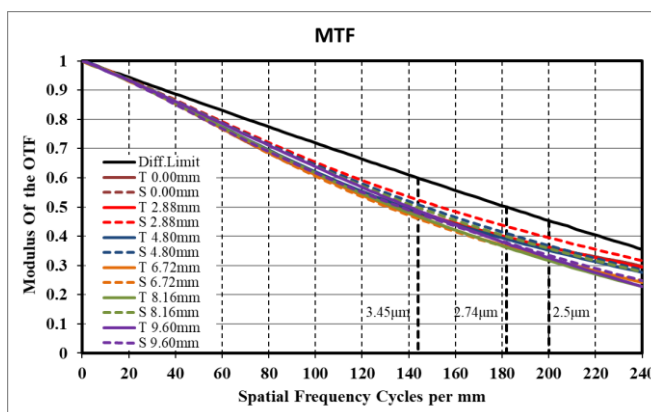
Key Features

- Ultra high resolution and consistency of image clarity
- 1.2" image Format, bigger aperture, lower distortion, Higher illumination relative
- Achromatic optical system design, Better imaging performance with color camera
- Maintain excellent optical properties at different object distances
- Excellent vibration resistance and stability at high and low temperature performance, optical axis shifting within pixel level
- Multilayer and broadband coating design, compatible with visible and near infrared applications

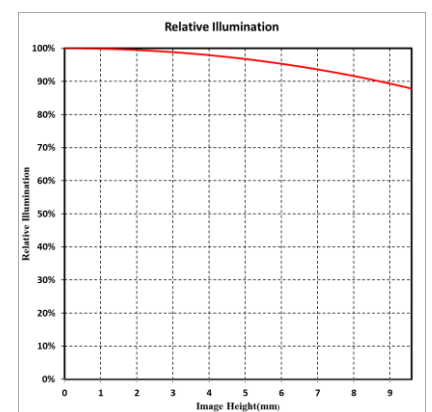
Distortion



MTF



Relative Illumination

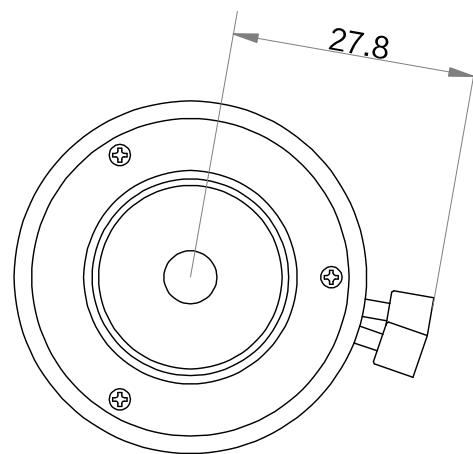
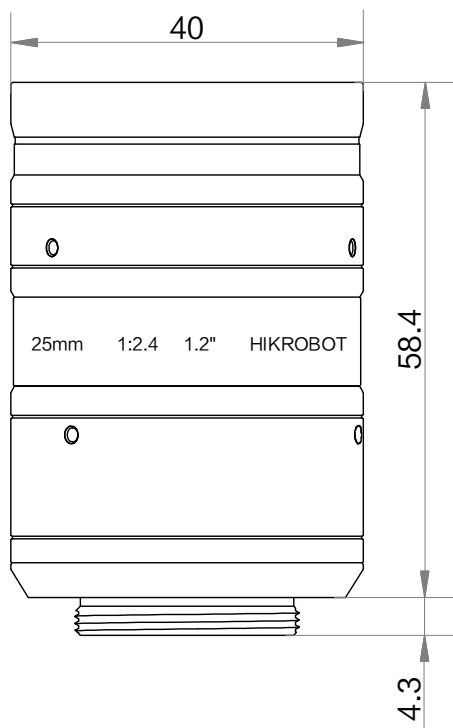


Note: The above curves are the simulate results based on F4, $\beta = -0.082$, WD=300 mm

Specification

Parameter	Model	MVL-KF2524M-25MP
	Fixed focal length, Manual iris, 25MP, FA Lens	
Performance		
Focal Length	25 mm	
F-Number	F2.4 ~ F16	
Image Size	Φ19.3 mm(1.2'')	
Distortion	-0.04%	
Minimum Operation Distance	0.15 m	
Field of View	D (19.30mm) : 40.80° H (14.60mm) : 31.42° V (12.63mm) : 27.34°	
Mechanical		
Iris Control	Manual	
Focus Control	Manual	
Filter Thread	M37×0.5	
Mount	C-Mount	
Flange Back Length	17.526 mm	
Dimension	Φ40×58.4 mm	
Weight	163 g	
Temperature	-10 ~ 50℃	
General		
Certification	RoHS2.0	

Dimension



Unit: mm

Field of View

Extension (mm)	Working Distance (mm)		Magnification	Field of View (mm)					
				1.2"		1.1"		2/3"	
				H(14.6mm)	V(12.63mm)	H(14.14mm)	V(10.35mm)	H(8.45mm)	V(7.07mm)
2	near	99.84	-0.242	29.32	35.07	43.00	58.89	52.54	60.83
	far	216.93	-0.111	64.03	76.58	93.88	128.54	114.71	132.76
1	near	120.24	-0.203	34.93	41.77	51.20	70.09	62.55	72.39
	far	344.84	-0.071	100.29	119.92	146.99	201.12	179.54	207.70
0		150	-0.164	89.23	77.13	86.40	63.15	51.53	43.09
		200	-0.123	119.19	103.05	115.42	84.38	68.85	57.59
		250	-0.098	148.96	128.79	144.25	105.47	86.07	71.99
		300	-0.082	178.64	154.46	173.00	126.50	103.23	86.34
		350	-0.070	208.27	180.09	201.69	147.49	120.36	100.67
		400	-0.062	237.87	205.69	230.36	168.46	137.47	114.98
		450	-0.055	267.45	231.27	259.00	189.41	154.57	129.28
		500	-0.049	297.02	256.84	287.64	210.35	171.66	143.58
		550	-0.045	326.58	282.40	316.26	231.29	188.74	157.87
		600	-0.041	356.12	307.95	344.88	252.22	205.82	172.15
		650	-0.038	385.67	333.50	373.49	273.15	222.90	186.44
		700	-0.035	415.21	359.05	402.10	294.07	239.97	200.72
		800	-0.031	474.28	410.13	459.30	335.91	274.12	229.28
		900	-0.028	533.34	461.21	516.50	377.74	308.26	257.83
		1000	-0.025	592.39	512.27	573.69	419.57	342.39	286.38