SEDECO IMAGING

HIKROBOT

MVL-KF2528M-12MP

1.1” 25mm 12MP FA LENS

FA series 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 and excellent image uniformity
- Low distortion to ensure measurement accuracy
- Maximum image circle of 1.1''
- Easy device integration with compact structure

Order Model

MVL-KF2528M-12MP

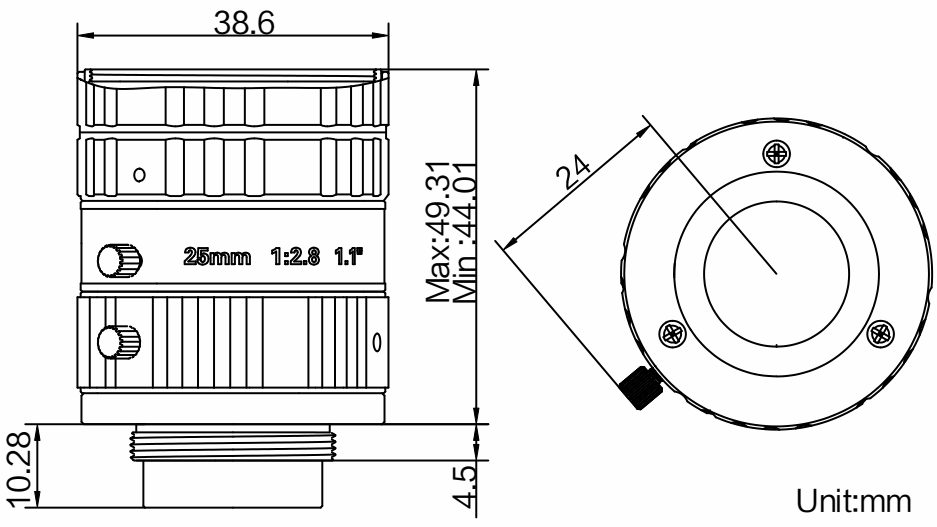
Specification

Model / Parameter		MVL-KF2528M-12MP Fixed focal length, Manual iris, 12MP, FA Lens		
Focal Length		25mm	Mount	C-Mount
F-Number		F2.8~F16	Flange Back Length	17.526mm
Image Size		Φ17.6mm(1.1’’)	Filter Thread	M35.5*0.5
Optical Distortion		0.40%	Minimum Operation Distance	0.15m
Control	Iris	Manual	Dimension	Φ38.6×44.01mm
	Focus	Manual		
Operating Temperature		-10~50℃	Weight	133g
Angle of View		1.1”	D（17.6mm）	36.7°
			H（14.08mm）	29.6°
			V（10.56mm）	22.1°

Field of View

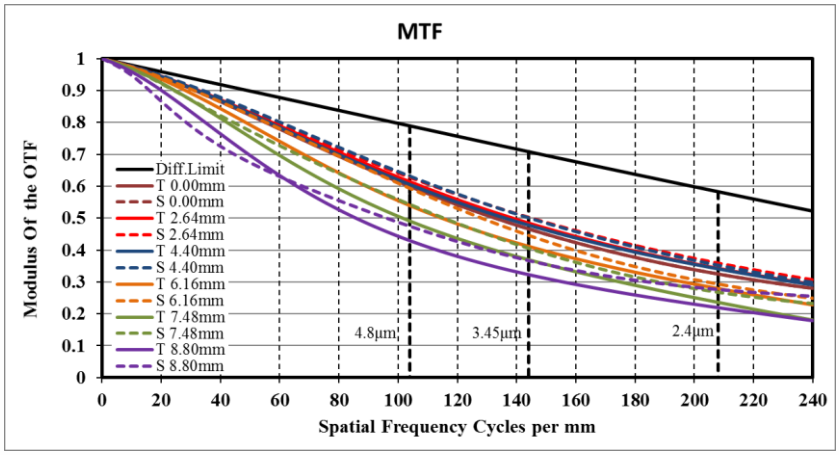
Working Distance (mm)	Magnification	Extension (mm)	Field of View (mm)					
			1.1'' (14.14mm×10.35mm)		1'' (12.45mm×9.83mm)		2/3'' (8.45mm×7.07mm)	
			H	V	H	V	H	V
25	-0.632	12	22.72	16.53	19.95	15.69	13.46	11.24
50	-0.386	6	37.20	27.08	32.68	25.70	22.06	18.43
75	-0.277	3	51.74	37.68	45.45	35.76	30.69	25.64
100	-0.217	2	66.02	48.12	58.03	45.67	39.20	32.76
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

Dimension

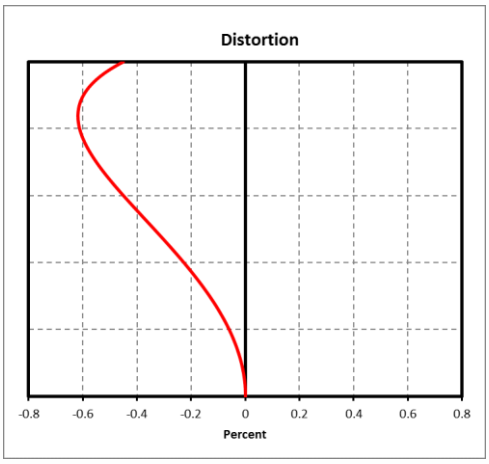


Unit:mm

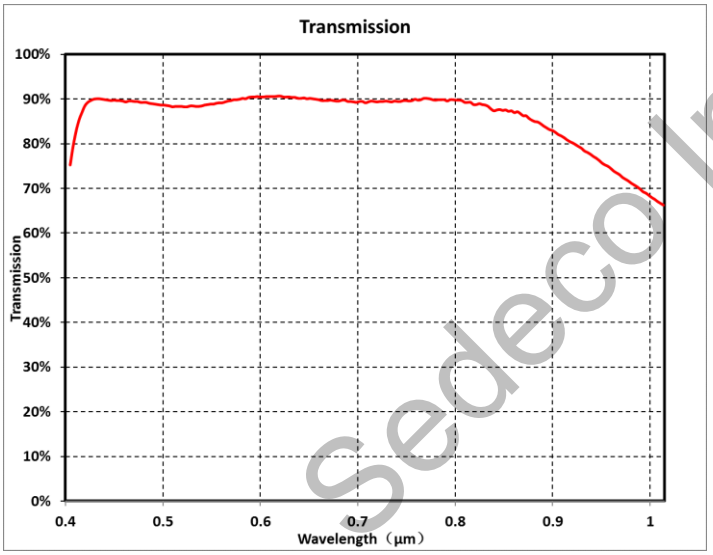
MTF



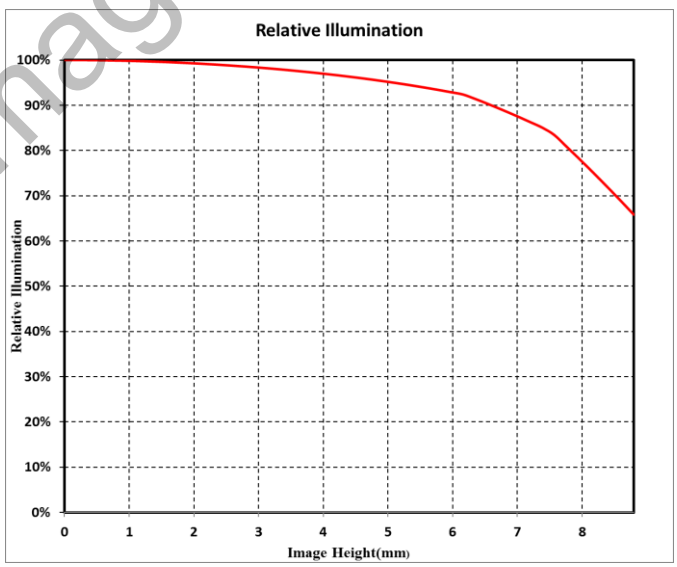
Distortion



Transmission



Relative Illumination



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

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