

MVL-KF1228M-12MP

1.1" 12mm 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, 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

Order Model

MVL-KF1228M-12MP

Specification

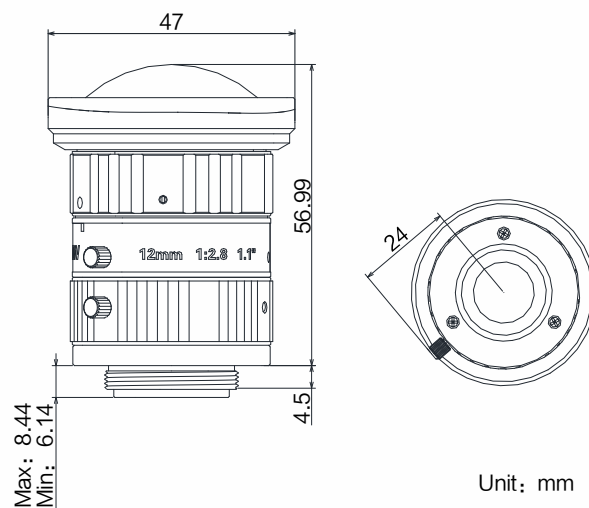
Model		MVL-KF1228M-12MP	
Parameter		Fixed focal length, Manual iris, 12MP, FA Lens	
Focal Length		12mm	C-Mount
F-Number		F2.8~F16	17.526mm
Image Size		Φ17.6mm(1.1")	/
Optical Distortion		-1.79%	0.1m
Control	Iris	Manual	Dimension
	Focus	Manual	
Operating Temperature		-10~50°C	Weight
Angle of View		1.1"	D (17.6mm)
			H (14.08mm)
			V (10.56mm)



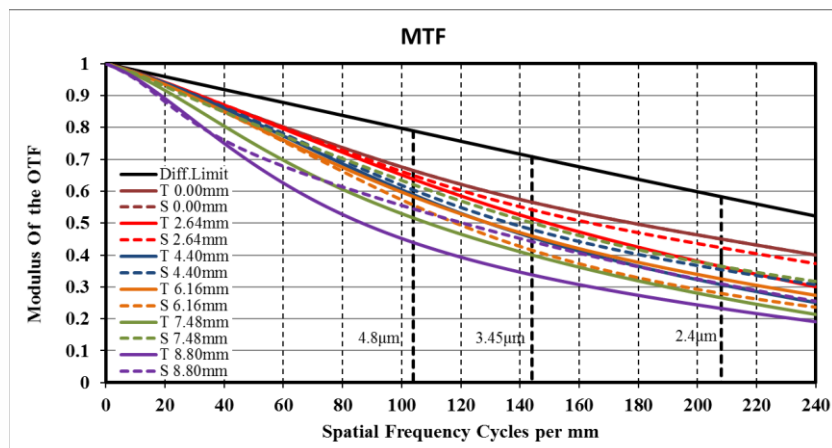
Field of View

Working Distance (mm)	Magnification	Extension (mm)	Field of View (mm)					
			1.1"		1"		2/3"	
			(14.14mm×10.35mm)		(12.45mm×9.83mm)		(8.45mm×7.07mm)	
			H	V	H	V	H	V
25	-0.256	2	58.39	41.75	50.84	39.54	33.76	28.08
50	-0.169	1	87.61	62.98	76.49	59.68	51.02	42.49
75	-0.126	1	116.61	84.19	102.04	79.82	68.31	56.92
100	-0.100		145.95	105.37	127.71	99.90	85.49	71.25
150	-0.071		203.80	147.63	178.63	140.01	119.92	100.00
200	-0.055		261.51	189.80	229.44	180.04	154.27	128.69
250	-0.045		319.15	231.94	280.20	220.04	188.60	157.37
300	-0.038		376.77	274.05	330.93	260.01	222.92	186.03
350	-0.033		434.36	316.16	381.64	299.98	257.22	214.69
400	-0.029		491.94	358.25	432.34	339.94	291.52	243.34
450	-0.026		549.52	400.34	483.04	379.89	325.81	271.99
500	-0.024		607.09	442.43	533.74	419.84	360.11	300.63
550	-0.022		664.65	484.51	584.43	459.79	394.40	329.28
600	-0.020		722.21	526.59	635.11	499.74	428.69	357.92
650	-0.018		779.77	568.67	685.80	539.68	462.97	386.56
700	-0.017		837.33	610.75	736.48	579.63	497.26	415.21
750	-0.016		894.89	652.83	787.16	619.57	531.54	443.85
800	-0.015		952.44	694.90	837.84	659.51	565.83	472.49
850	-0.014		1010.00	736.98	888.52	699.45	600.11	501.13
900	-0.013		1067.55	779.06	939.20	739.39	634.40	529.76
1000	-0.012		1182.57	863.25	1040.56	819.32	703.02	587.09

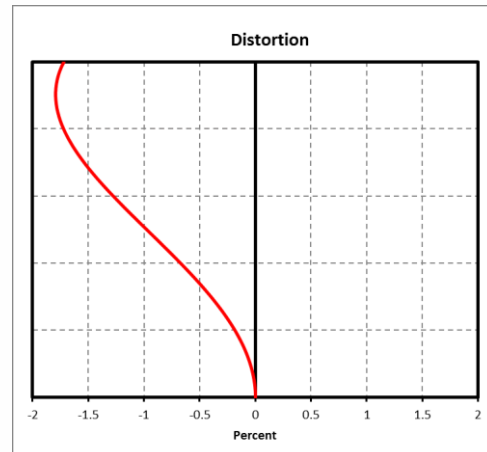
Dimension



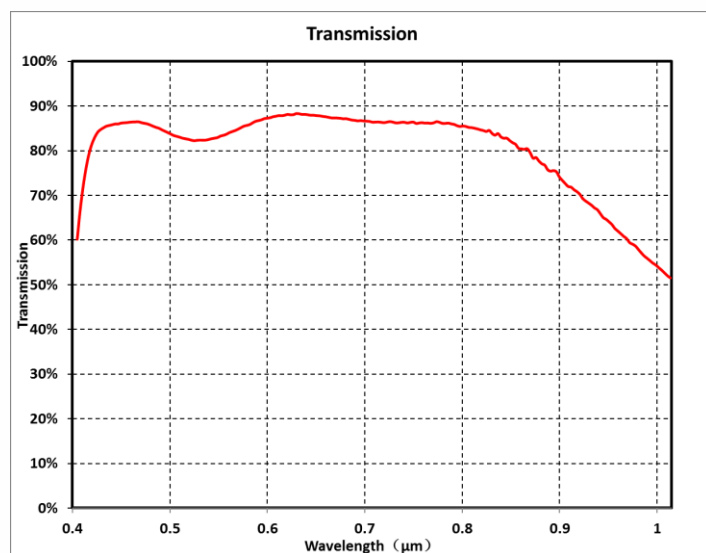
MTF



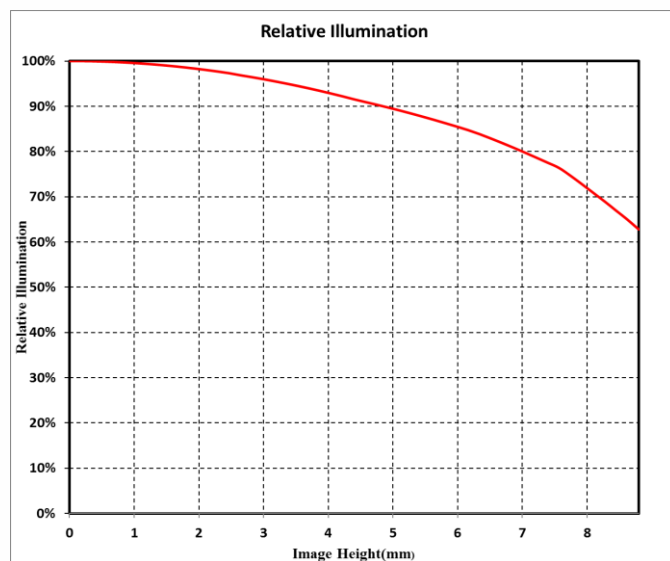
Distortion



Transmission



Relative Illumination



Note: The above curves are the simulate results based on F2.8, $\beta=-0.038$, WD=300 mm.



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