

MVL-MF1228M-8MP

2/3" 12mm 8MP FA LENS

FA series 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

- High resolution and high image clarity
- Maximum aperture of F2.8 and maximum image circle of 2/3"
- Low distortion to ensure measurement accuracy
- Lower price and higher performance
- Compact structure for device integration

Order Model

MVL-MF1228M-8MP

Specification

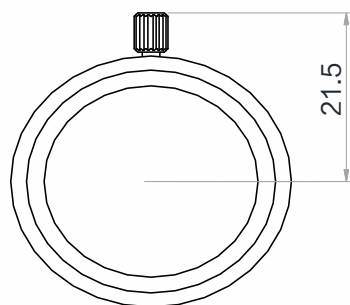
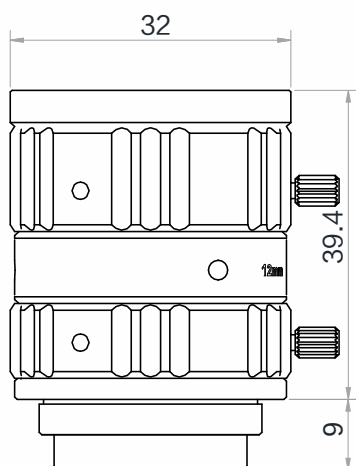
Model		MVL-MF1228M-8MP	
Parameter		Fixed focal length, Manual iris, 8MP, FA Lens	
Focal Length		12mm	C-Mount
F-Number		F2.8~F16	Flange Back Length
Image Size		Φ11mm(2/3")	Filter Thread
Optical Distortion		-1.14%	M.O.D
Control	Iris	Manual Operation	Dimension
	Focus	Manual Operation	
Operating Temperature		-10~50°C	Weight
Field of View		2/3"	D (11.1mm)
			H (8.45mm)
			V (7.07mm)



Field of View

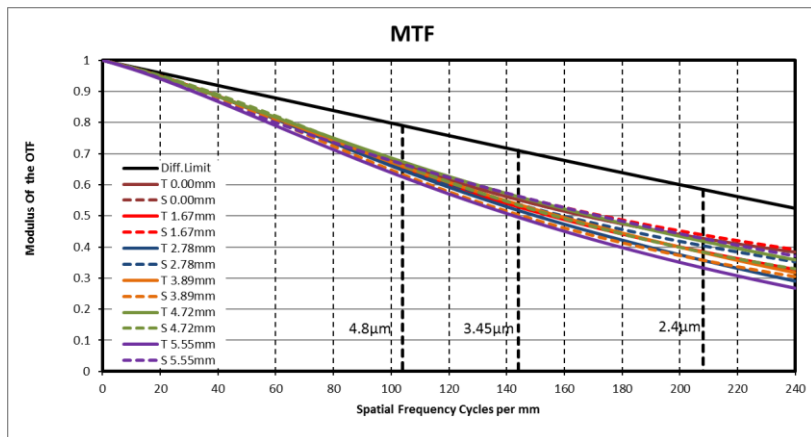
Working Distance (mm)	Magnification	Extension (mm)	Field of View (mm)					
			2/3"		1/1.8"		1/2"	
			(8.45mm×7.07mm)		(7.38mm×4.92mm)		(6.22mm×4.67mm)	
			H	V	H	V	H	V
25	0.285	1.85	30.28	25.18	26.32	17.40	22.09	16.50
50	0.179	0.58	48.06	40.03	41.83	27.71	35.14	26.29
75	0.130		65.81	54.87	57.32	38.02	48.18	36.07
100	0.103		83.39	69.55	72.65	48.20	61.08	45.74
150	0.072		118.31	98.72	103.11	68.46	86.72	64.96
200	0.056		153.13	127.82	133.49	88.67	112.30	84.14
250	0.045		187.90	156.88	163.83	108.86	137.85	103.29
300	0.038		222.63	185.91	194.14	129.02	163.37	122.43
350	0.033		257.35	214.93	224.44	149.18	188.88	141.56
400	0.029		292.07	243.94	254.73	169.33	214.39	160.69
450	0.026		326.78	272.95	285.02	189.49	239.89	179.81
500	0.024		361.46	301.94	315.29	209.63	265.38	198.93
550	0.021		396.14	330.93	345.56	229.77	290.87	218.04
600	0.020		430.84	359.93	375.84	249.92	316.37	237.16
650	0.018		465.53	388.93	406.12	270.06	341.86	256.28
700	0.017		500.21	417.91	436.38	290.20	367.34	275.39
800	0.015		569.58	475.90	496.92	330.48	418.32	313.62
900	0.013		638.94	533.87	557.45	370.75	469.29	351.84
1000	0.012		708.32	591.86	618.00	411.04	520.27	390.07

Dimension

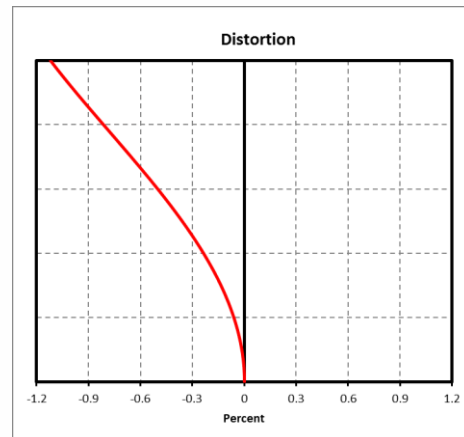


Unit:mm

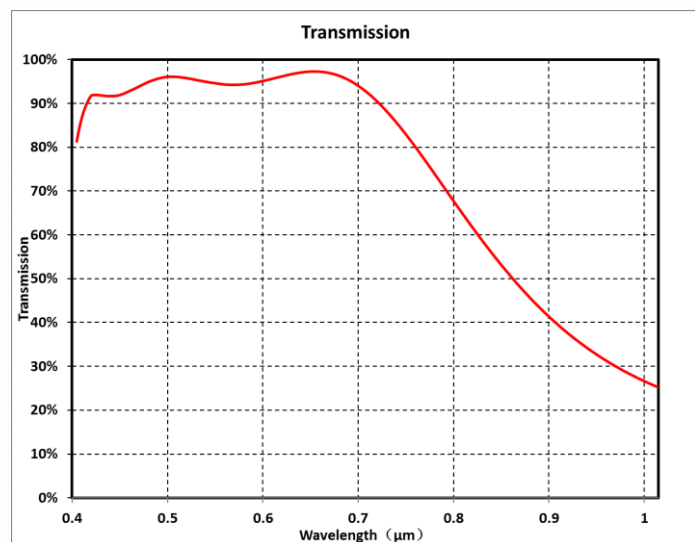
MTF



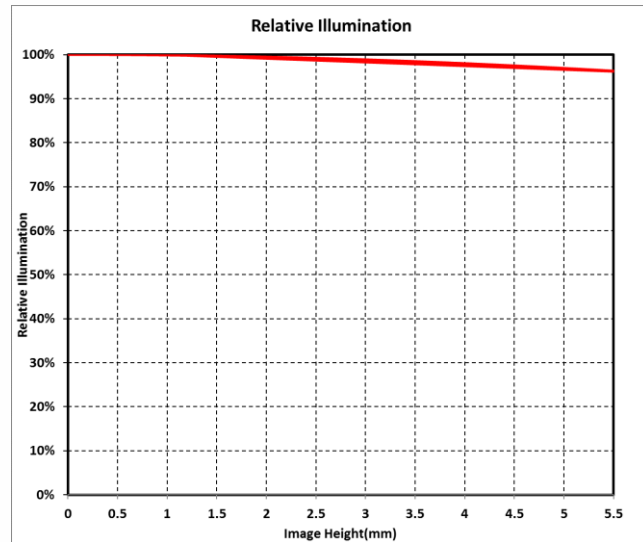
Distortion



Transmission



Relative Illumination



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

HIKROBOT

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