

MVL-HF0828M-6MPE

1/1.8" 8mm 6MP 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

- Higher image clarity and contrast ratio
- Ultra-low distortion and higher relative illumination rate
- Good optical performance at ultra-short working distance
- Compact design, convenient for device integration

Order Model

MVL-HF0828M-6MPE

Specification

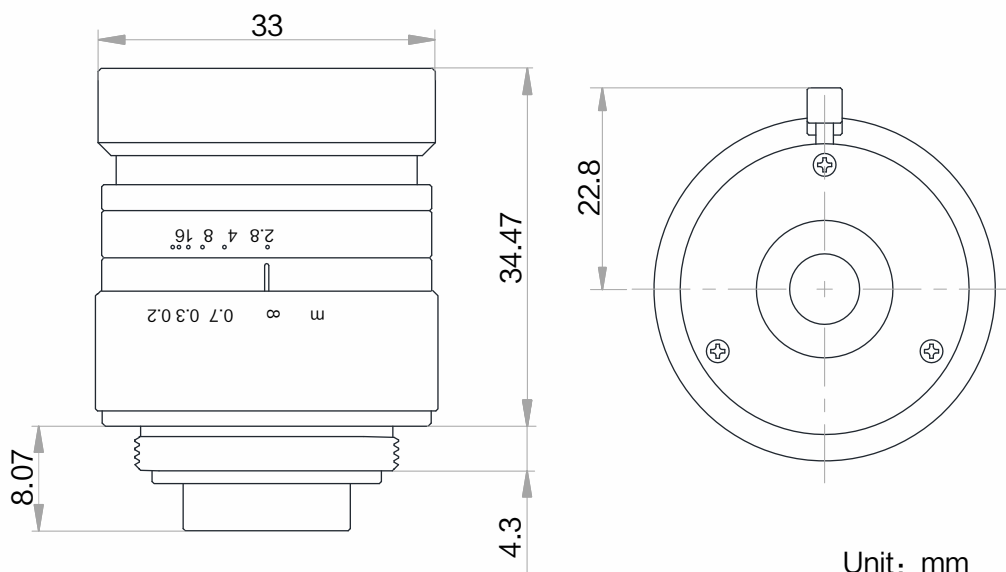
Model		MVL-HF0828M-6MPE	
Parameter		Fixed focal length, Manual iris, 6MP, FA Lens	
Focal Length		8mm	C-Mount
F-Number		F2.8~F16	Flange Back Length
Image Size		Φ9mm(1/1.8")	Filter Thread
Distortion		-0.39%	Minimum Operation Distance
Control	Iris	Manual	Dimension
	Focus	Manual	
Operating Temperature		-10~50°C	Weight
Angle of View		1/1.8"	D (8.96mm)
			H (7.37mm)
			V (4.92mm)



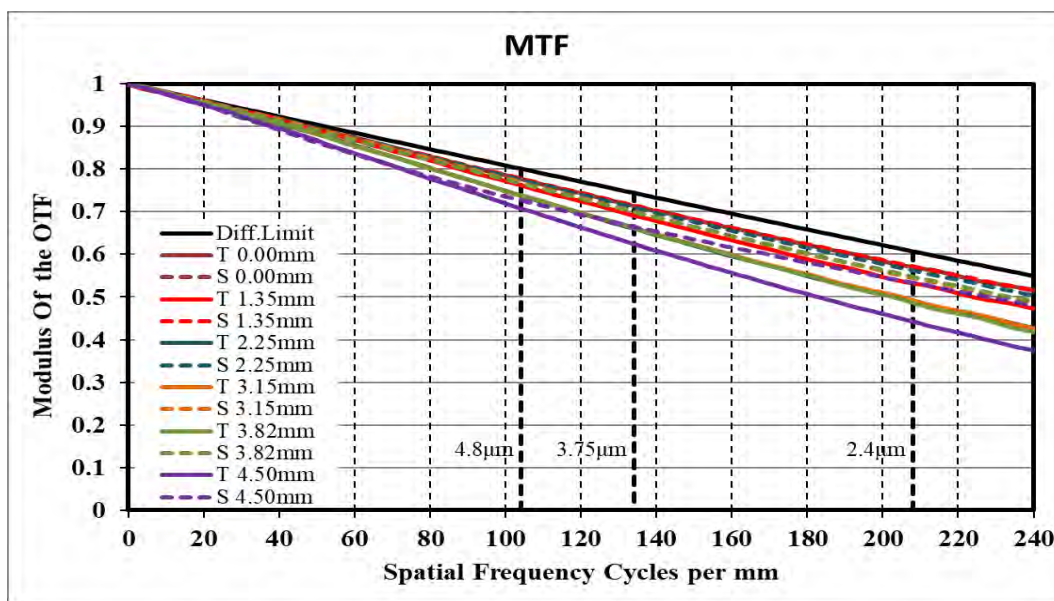
Field of View

Extension (mm)	Working Distance (mm)		Magnification	Field of View (mm)			
				1/1.8"		1/2"	
				(7.38mm×4.92mm)		(6.22mm×4.67mm)	
				H	V	H	V
0	100		-0.071	104.96	69.56	88.21	65.98
	150		-0.050	149.83	99.54	126.10	94.45
	200		-0.038	194.66	129.50	163.95	122.88
	250		-0.031	239.47	159.45	201.79	151.31
	300		-0.026	284.27	189.40	239.61	179.74
	350		-0.023	329.07	219.34	277.44	208.16
	400		-0.020	373.86	249.28	315.26	236.58
	450		-0.018	418.64	279.22	353.08	265.00
	500		-0.016	463.43	309.16	390.90	293.42
	550		-0.015	508.21	339.09	428.71	321.83
	600		-0.013	552.99	369.03	466.53	350.25
	650		-0.012	597.77	398.97	504.34	378.67
	700		-0.012	642.56	428.90	542.16	407.08
	800		-0.010	732.12	488.77	617.79	463.91
	900		-0.009	821.67	548.64	693.42	520.74
	1000		-0.008	911.23	608.51	769.04	577.57
1	near	27.54	-0.195	-39.22	-25.67	-32.74	-24.33
	far	52.60	-0.123	-61.57	-40.56	-51.58	-38.46

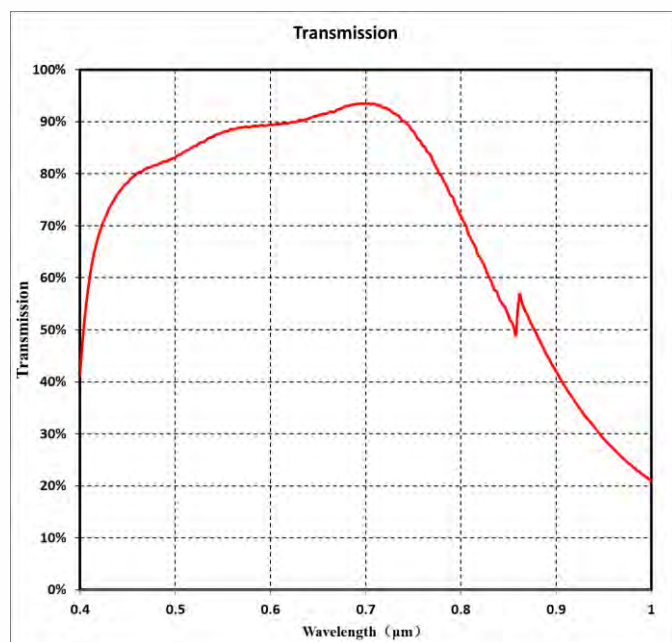
Dimension



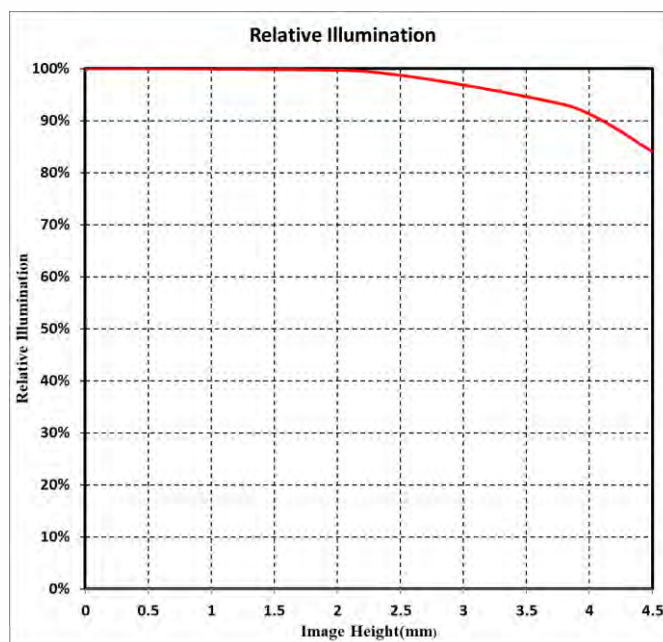
MTF



Transmission



Relative Illumination



Note: The above curves are the simulate results based on F2.8, $\beta=-0.026$, WD=300 mm.

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