

MVL-HF5028M-6MP

1/1.8" 50mm 6MP 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 1/1.8"
- Easy device integration with compact structure

Order Model

MVL-HF5028M-6MP

Specification

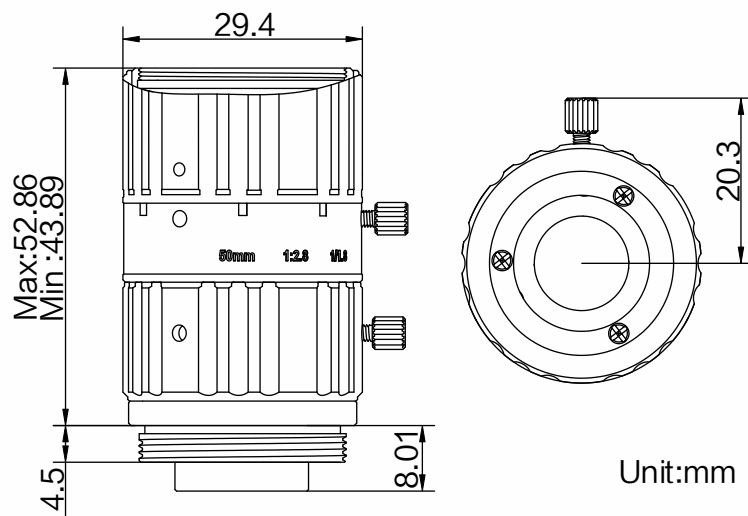
Model		MVL-HF5028M-6MP	
Parameter		Fixed focal length, Manual iris, 6MP, FA Lens	
Focal Length		50mm	Mount
F-Number		F2.8~F16	Flange Back Length
Image Size		Φ9mm(1/1.8")	Filter Thread
Optical Distortion		0.11%	Minimum Operation Distance
Control	Iris	Manual	Dimension
	Focus	Manual	
Operating Temperature		-10~50°C	Weight
Angle of View		1/1.8"	D (8.96mm)
			H (7.37mm)
			V (4.92mm)



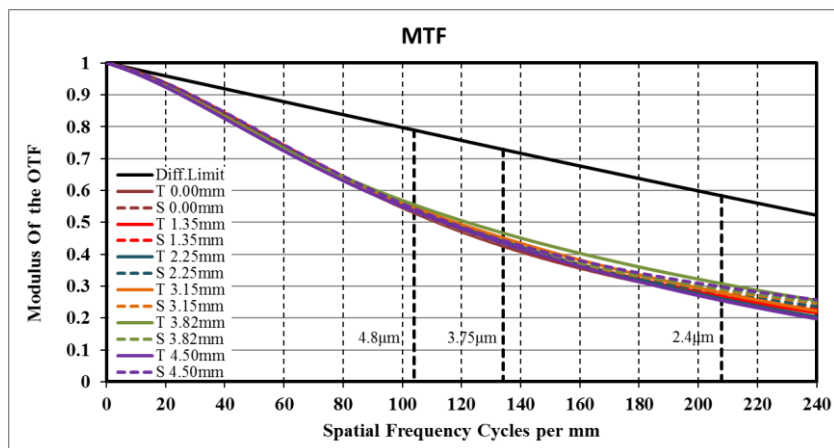
Field of View

Working Distance (mm)	Magnification	Extension (mm)	Field of View (mm)			
			1/1.8"		1/2"	
			(7.38mm×4.92mm)		(6.22mm×4.67mm)	
			H	V	H	V
50	-0.873	38	8.45	5.63	7.12	5.35
75	-0.633	25	11.66	7.77	9.82	7.38
100	-0.500	17	14.77	9.84	12.45	9.34
150	-0.341	9	21.65	14.43	18.25	13.70
200	-0.263	4	28.02	18.68	23.61	17.73
250	-0.209	2	35.24	23.50	29.70	22.30
300	-0.176		41.89	27.93	35.31	26.51
350	-0.148		49.96	33.31	42.11	31.62
400	-0.127		58.04	38.69	48.92	36.73
450	-0.112		66.11	44.07	55.72	41.84
500	-0.100		74.19	49.46	62.53	46.95
550	-0.090		82.26	54.84	69.33	52.05
600	-0.082		90.33	60.22	76.13	57.16
650	-0.075		98.41	65.60	82.94	62.27
700	-0.069		106.48	70.98	89.74	67.38
750	-0.064		114.55	76.37	96.55	72.49
800	-0.060		122.62	81.75	103.35	77.59
850	-0.057		130.69	87.13	110.15	82.70
900	-0.053		138.77	92.51	116.96	87.81
950	-0.050		146.84	97.89	123.76	92.92
1000	-0.048		154.91	103.27	130.56	98.03

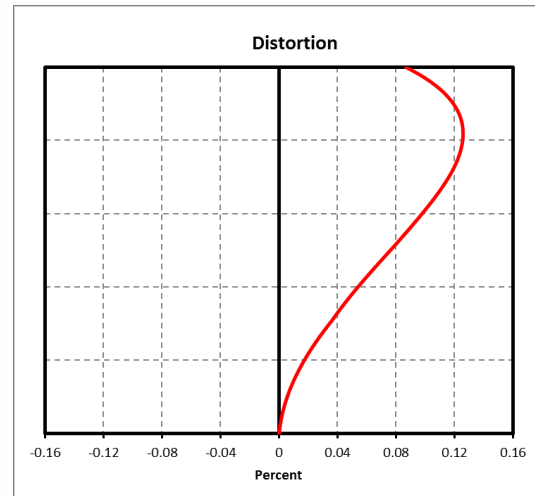
Dimension



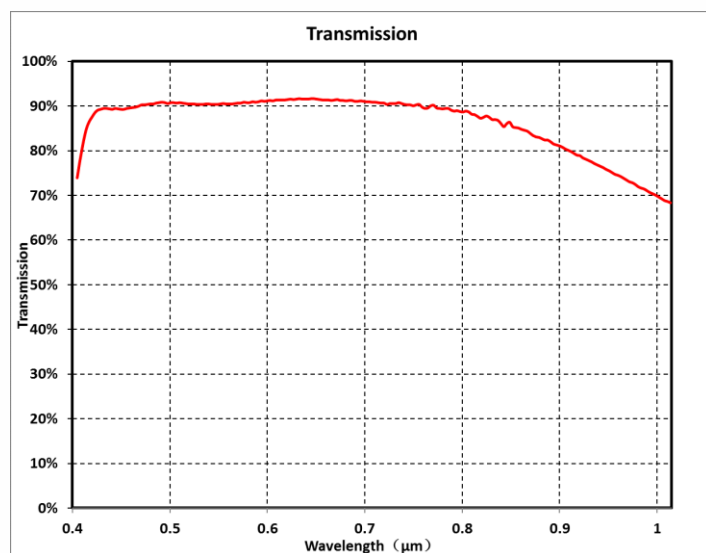
MTF



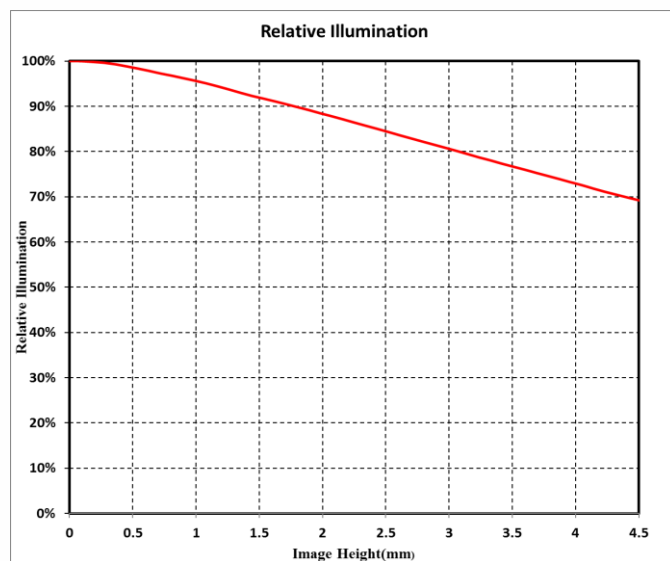
Distortion



Transmission



Relative Illumination



Note: The above curves are the simulate results based on F2.8, $\beta=-0.082$, WD=600 mm.



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