HIKROBOT

MVL-MF1628M-8MP

2/3” 16mm 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-MF1628M-8MP

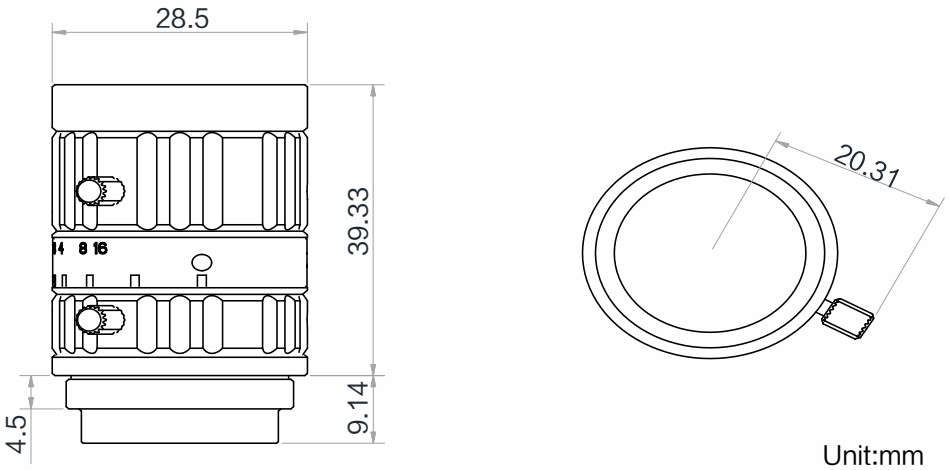
Specification

Model / Parameter		MVL-MF1628M-8MP Fixed focal length, Manual iris, 8MP, FA Lens		
Focal Length		16mm	Mount	C-Mount
F-Number		F2.8~F16	Flange Back Length	17.526mm
Image Size		Φ11mm(2/3'')	Filter Thread	M27×0.5
Optical Distortion		-0.20%	M.O.D	0.1m
Control	Iris	Manual Operation	Dimension	Φ28.5×39.33mm
	Focus	Manual Operation		
Operating Temperature		-10~50℃	Weight	57.1g
Field of View		2/3”	D（11.1mm）	37.13°
			H（8.45mm）	28.94°
			V（7.07mm）	24.38°

Field of View

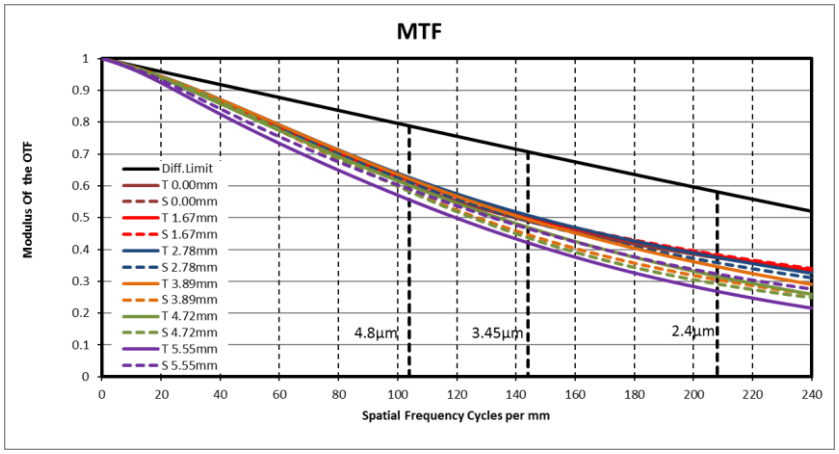
Working Distance (mm)	Magnification	Extension (mm)	Field of View (mm)					
			2/3'' (8.45mm×7.07mm)		1/1.8'' (7.38mm×4.92mm)		1/2'' (6.22mm×4.67mm)	
			H	V	H	V	H	V
25	0.383	3.8	22.34	18.63	19.46	12.92	16.36	12.26
50	0.237	1.6	36.07	30.11	31.45	20.89	26.46	19.83
75	0.171	0.6	49.76	41.57	43.41	28.87	36.54	27.39
100	0.134		63.47	53.05	55.39	36.86	46.64	34.98
150	0.095		89.78	75.05	78.36	52.16	65.99	49.50
200	0.073		115.89	96.90	101.17	67.36	85.22	63.93
250	0.060		141.90	118.68	123.89	82.51	104.37	78.31
300	0.051		167.87	140.41	146.58	97.64	123.49	92.67
350	0.044		193.81	162.12	169.24	112.74	142.59	107.01
400	0.039		219.72	183.81	191.88	127.84	161.68	121.34
450	0.035		245.63	205.49	214.51	142.93	180.76	135.66
500	0.031		271.52	227.17	237.14	158.01	199.83	149.97
550	0.029		297.41	248.83	259.75	173.09	218.89	164.28
600	0.026		323.29	270.50	282.36	188.17	237.95	178.59
650	0.024		349.16	292.15	304.97	203.24	257.01	192.90
700	0.023		375.03	313.81	327.57	218.31	276.06	207.21
800	0.020		426.76	357.11	372.77	248.45	314.16	235.82
900	0.018		478.49	400.41	417.97	278.58	352.26	264.41
1000	0.016		530.21	443.71	463.15	308.71	390.35	293.01

Dimension

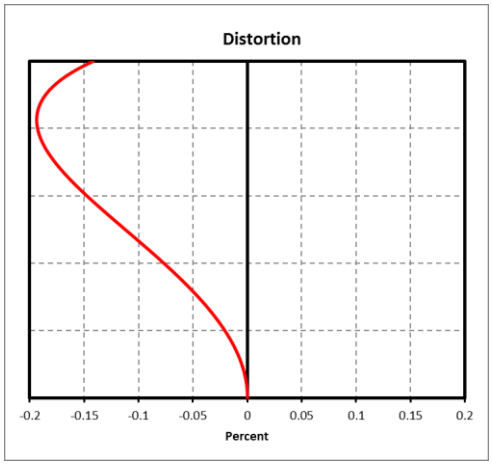


Unit:mm

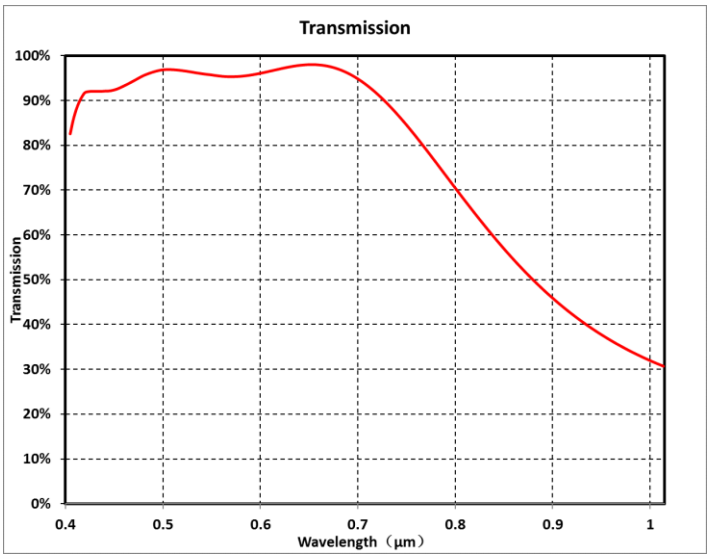
MTF



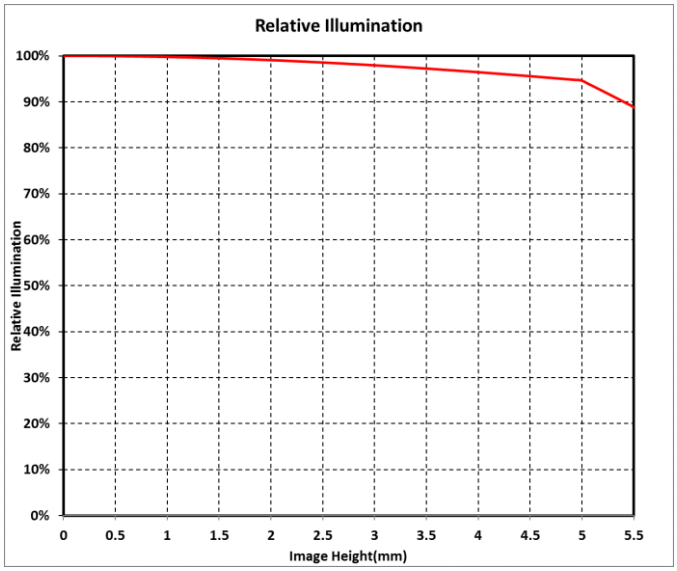
Distortion



Transmission



Relative Illumination



Note：The above curves are the simulate results based on F2.8, β=-0.051, WD=300 mm.

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