MVL-HF0628M-6MPE

1/1.8” 6mm 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-HF0628M-6MPE

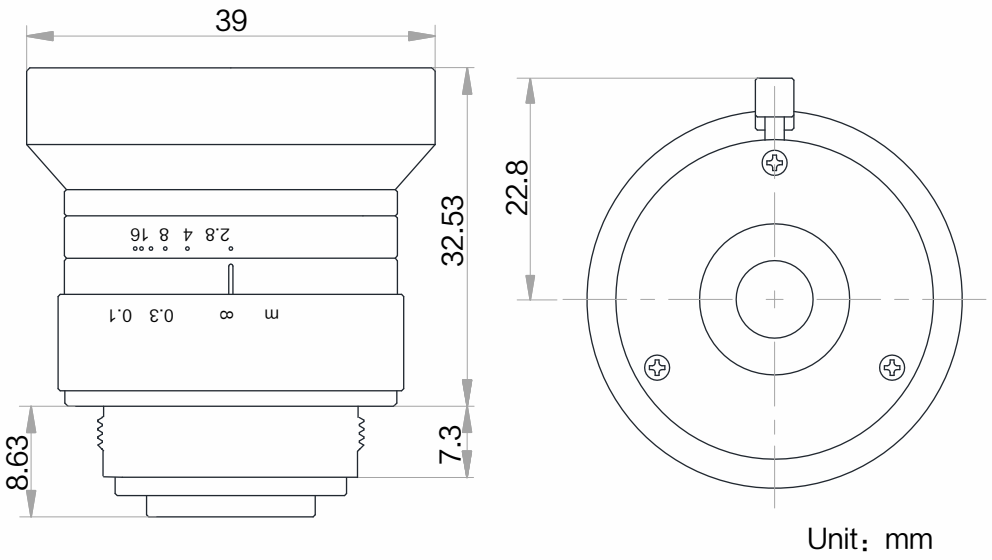
Specification

Parameter \ Model		MVL-HF0628M-6MPE		
		Fixed focal length, Manual iris, 6MP, FA Lens		
Focal Length		6mm	Mount	C-Mount
F-Number		F2.8~F16	Flange Back Length	17.526mm
Image Size		Φ9mm(1/1.8’’)	Filter Thread	M37.5×P0.5
Distortion		-0.103%	Minimum Operation Distance	0.1m
Control	Iris	Manual	Dimension	Φ39×32.5mm
	Focus	Manual		
Operating Temperature		-10~50℃	Weight	65.8g
Angle of View		1/1.8”	D（8.96mm）	71.8°
			H（7.37mm）	61.6°
			V（4.92mm）	43.4°

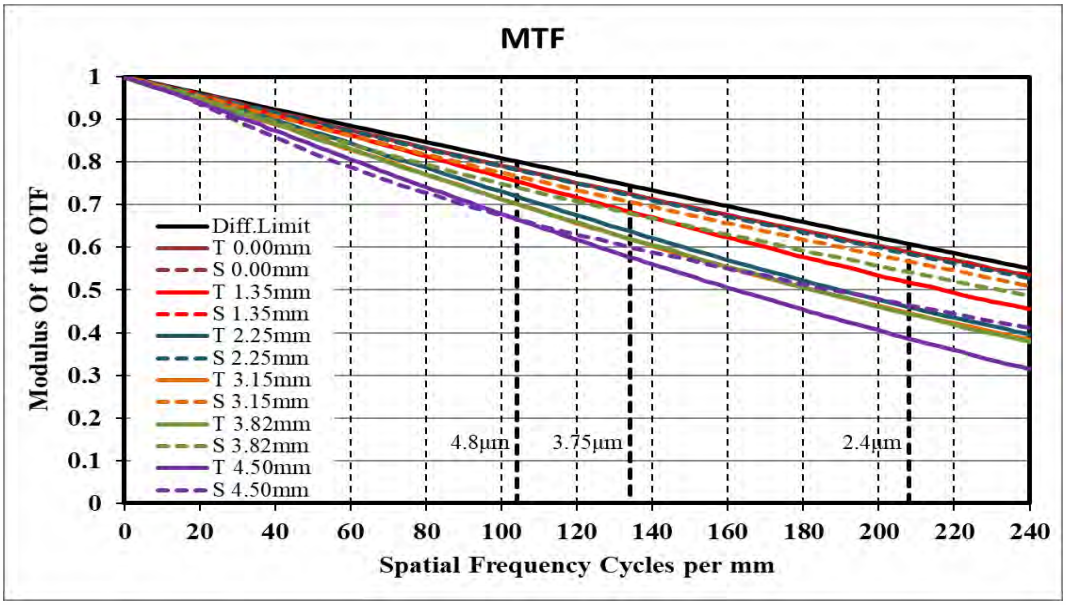
Field of View

Extension (mm)	Working Distance (mm)		Magnification	Field of View (mm)			
				1/1.8'' (7.38mm×4.92mm)		1/2'' (6.22mm×4.67mm)	
				H	V	H	V
0	100		-0.054	141.39	93.24	118.60	88.40
	150		-0.037	201.68	133.41	169.47	126.51
	200		-0.029	261.94	173.57	220.31	164.61
	250		-0.023	322.19	213.72	271.14	202.70
	300		-0.020	382.43	253.87	321.96	240.79
	350		-0.017	442.67	294.01	372.79	278.88
	400		-0.015	502.90	334.16	423.61	316.97
	450		-0.013	563.13	374.30	474.43	355.05
	500		-0.012	623.36	414.45	525.25	393.14
	550		-0.011	683.59	454.59	576.07	431.23
	600		-0.010	743.82	494.73	626.89	469.31
	650		-0.009	804.05	534.87	677.71	507.40
	700		-0.009	864.28	575.02	728.53	545.48
	800		-0.008	984.74	655.30	830.16	621.65
	900		-0.007	1105.19	735.58	931.79	697.82
	1000		-0.006	1225.64	815.87	1033.43	773.99
1	near	14	-0.217	36.33	23.38	30.07	22.13
	far	24	-0.162	48.15	31.23	40.02	29.57

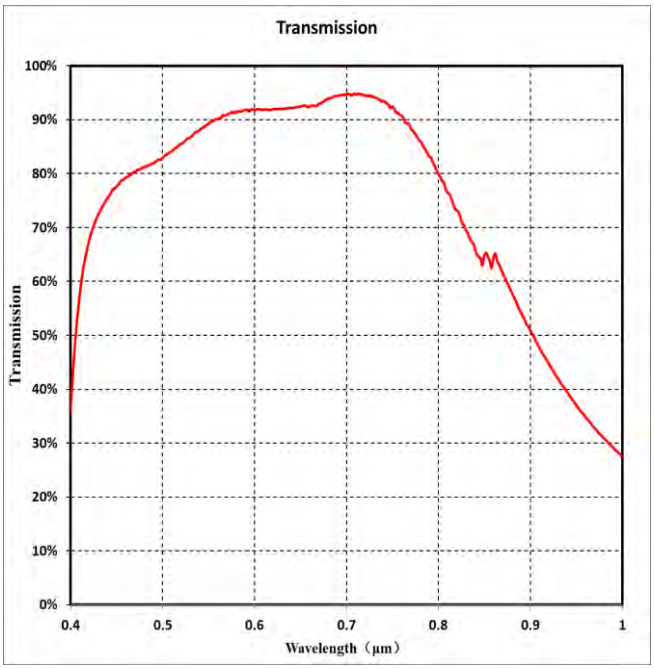
Dimension



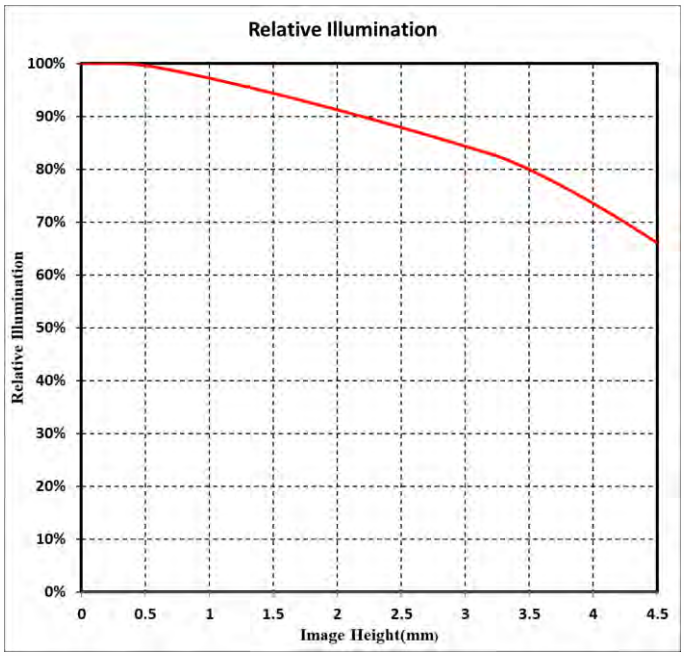
MTF



Transmission



Relative Illumination



Note：The above curves are the simulate results based on F2.8, β=-0.0196, WD=300 mm.

HIKROBOT
Hangzhou Hikrobot Technology Co.,Ltd.
No.399 Danfeng Road, Binjiang District,Hangzhou 310051 , China.
en.hikrobotics.com

MaxxVision®
Sigmaringer Str. 121
70567 Stuttgart
Tel.: 0711 997 996 3
www.maxxvision.com