HIKROBOT

MVL-HF1628M-6MPE

1/1.8” 16mm 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-HF1628M-6MPE

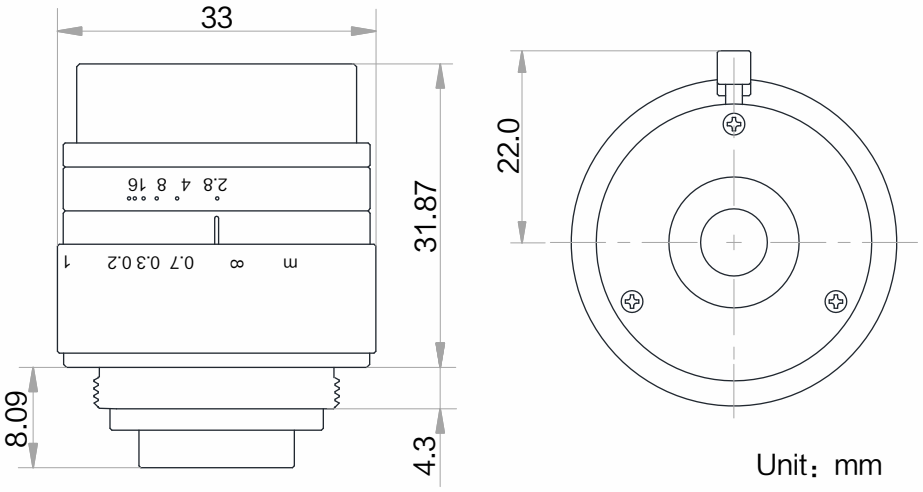
Specification

Parameter \ Model		MVL-HF1628M-6MPE		
		Fixed focal length, Manual iris, 6MP, FA Lens		
Focal Length		16mm	Mount	C-Mount
F-Number		F2.8~F16	Flange Back Length	17.526mm
Image Size		Φ9mm(1/1.8’’)	Filter Thread	M27×P0.5
Distortion		-0.14%	Minimum Operation Distance	0.1m
Control	Iris	Manual	Dimension	Φ33×31.9mm
	Focus	Manual		
Operating Temperature		-10~50℃	Weight	56.1g
Angle of View		1/1.8”	D（8.96mm）	30.9°
			H（7.37mm）	25.6°
			V（4.92mm）	17.3°

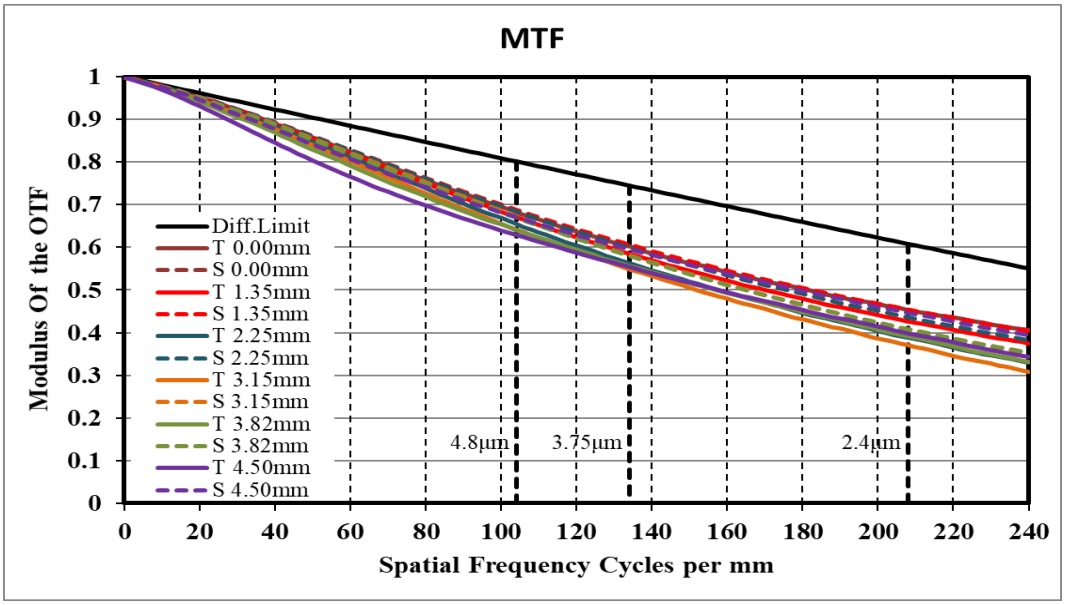
Field of View

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		-0.144	51.38	34.17	43.25	32.43
	150		-0.099	74.67	49.69	62.88	47.16
	200		-0.076	97.70	65.06	82.30	61.75
	250		-0.061	120.63	80.35	101.63	76.26
	300		-0.052	143.49	95.61	120.92	90.75
	350		-0.044	166.32	110.85	140.17	105.20
	400		-0.039	189.12	126.07	159.40	119.65
	450		-0.035	211.91	141.27	178.62	134.09
	500		-0.032	234.69	156.48	197.83	148.52
	550		-0.029	257.46	171.67	217.04	162.95
	600		-0.026	280.22	186.87	236.23	177.37
	650		-0.024	302.98	202.05	255.43	191.79
	700		-0.023	325.73	217.24	274.62	206.20
	800		-0.020	371.23	247.61	312.99	235.03
	900		-0.018	416.72	277.97	351.36	263.85
	1000		-0.016	462.20	308.33	389.72	292.66
1	near	67	-0.211	35.26	23.43	29.67	22.23
	far	252	-0.062	118.60	79.04	99.95	75.02
2	near	50	-0.277	26.84	17.83	22.58	16.92
	far	122	-0.124	59.56	39.64	50.16	37.62
5	near	27	-0.476	15.67	10.40	13.17	9.87
	far	44	-0.310	24.02	15.94	20.20	15.13

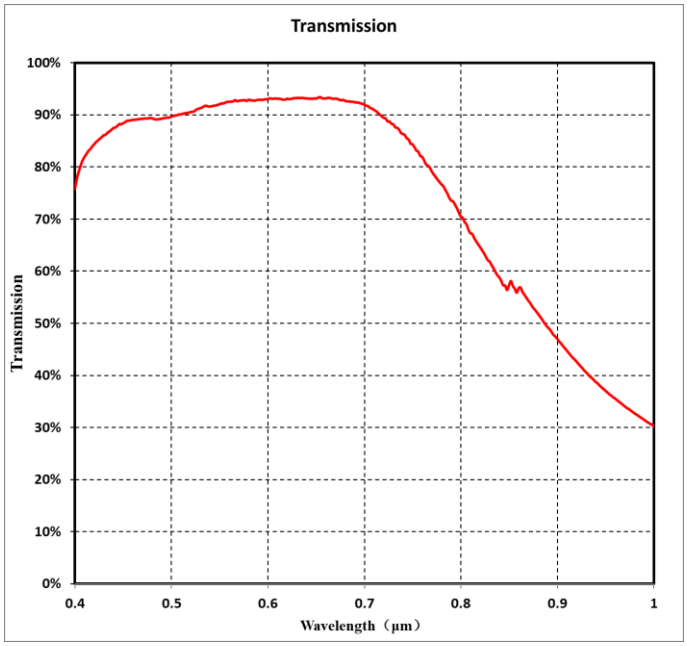
Dimension



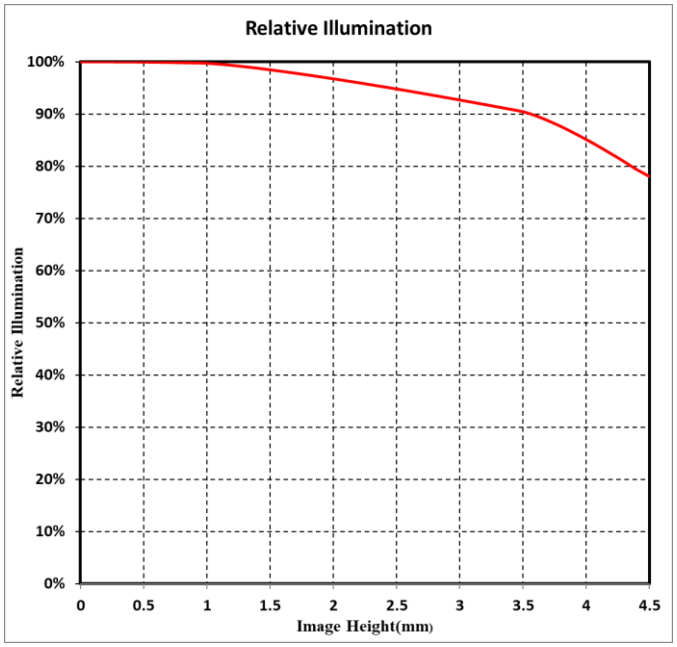
MTF



Transmission



Relative Illumination



Note：The above curves are the simulate results based on F2.8, β=-0.0515, WD=300 mm.

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