

MVL-HF1228M-6MPE

1/1.8" 12mm 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-HF1228M-6MPE

Specification

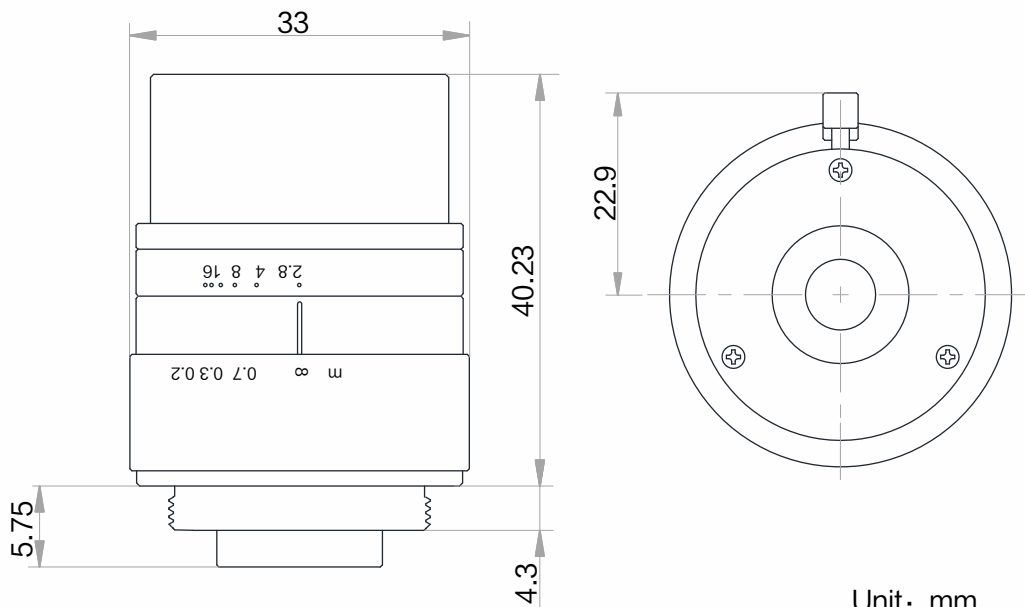
Model		MVL-HF1228M-6MPE	
Parameter		Fixed focal length, Manual iris, 6MP, FA Lens	
Focal Length		12mm	Mount C-Mount
F-Number		F2.8~F16	Flange Back Length 17.526mm
Image Size		Φ9mm(1/1.8")	Filter Thread M27×P0.5
Distortion		-0.22%	Minimum Operation Distance 0.1m
Control	Iris	Manual	Dimension Φ33×40.2mm
	Focus	Manual	
Operating Temperature		-10~50°C	Weight 61.7g
Angle of View		D (8.96mm)	39.8°
		H (7.37mm)	33.2°
		V (4.92mm)	22.5°



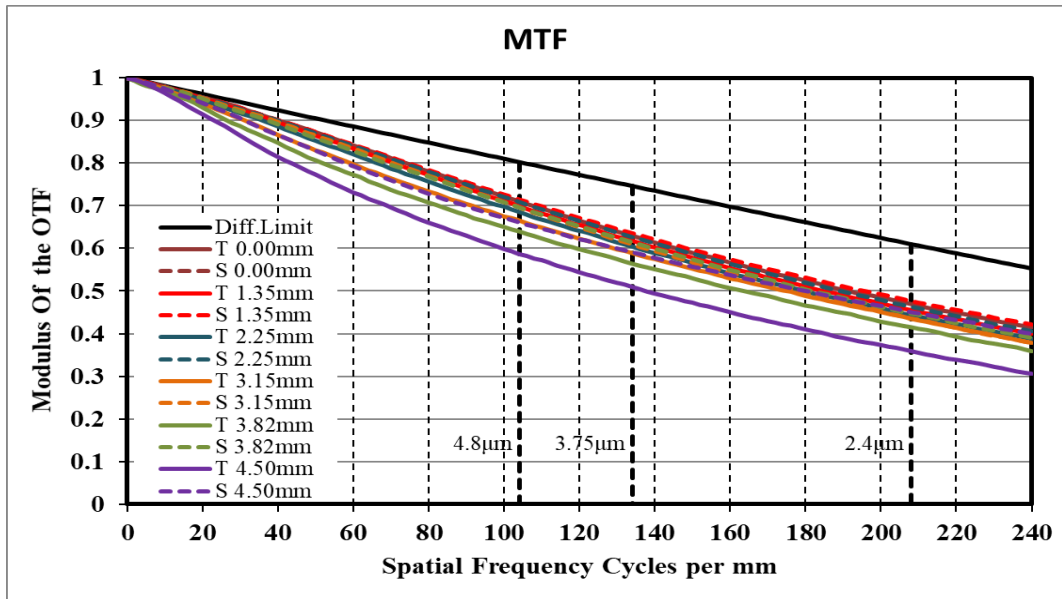
Field of View

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		-0.107	69.40	46.10	58.39	43.74
	150		-0.075	99.49	66.17	83.77	62.80
	200		-0.057	129.46	86.18	109.04	81.78
	250		-0.046	159.38	106.14	134.28	100.74
	300		-0.039	189.27	126.09	159.49	119.67
	350		-0.034	219.13	146.03	184.69	138.60
	400		-0.030	248.99	165.97	209.88	157.52
	450		-0.027	278.84	185.89	235.06	176.44
	500		-0.024	308.68	205.82	260.23	195.35
	550		-0.022	338.53	225.74	285.41	214.26
	600		-0.020	368.36	245.66	310.58	233.16
	650		-0.019	398.20	265.57	335.75	252.07
	700		-0.017	428.03	285.49	360.91	270.98
	800		-0.015	487.69	325.32	411.25	308.78
	900		-0.013	547.35	365.15	461.57	346.59
	1000		-0.012	607.00	404.98	511.90	384.39
1	near	50.88	-0.192	38.94	25.80	32.72	24.48
	far	139.1	-0.082	90.87	60.48	76.53	57.39
2	near	31.86	-0.276	27.13	17.94	22.77	17.02
	far	63.42	-0.163	45.68	30.32	38.42	28.77

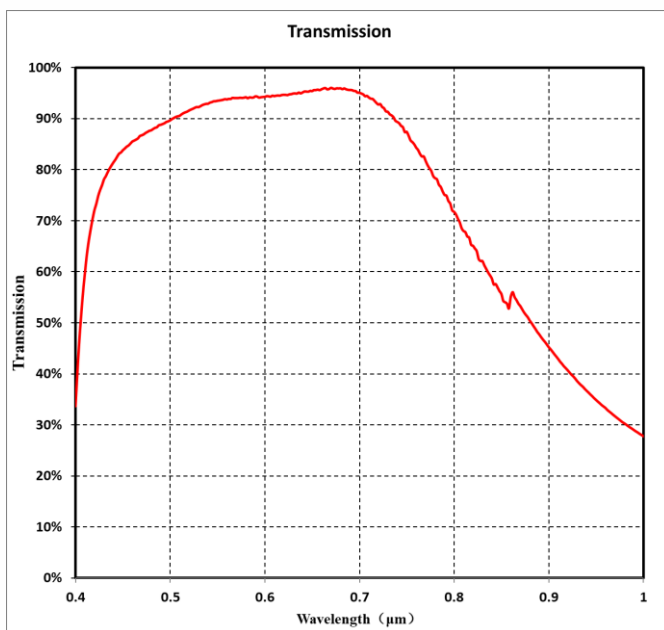
Dimension



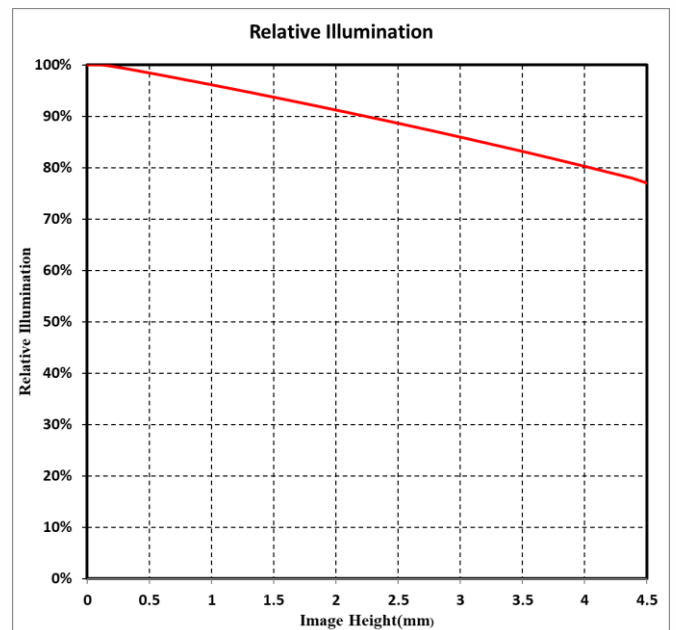
MTF



Transmission



Relative Illumination



Note: The above curves are the simulate results based on F2.8, $\beta=-0.039$, WD=300 mm.

HIKROBOT

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