

**MVL-HF2528M-6MPE**  
**1/1.8" 25mm 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-HF2528M-6MPE

**Specification**

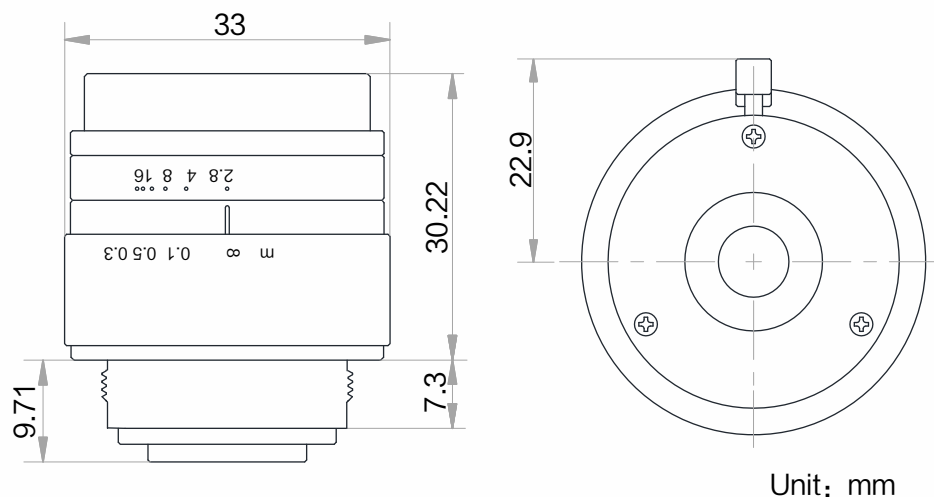
Model		MVL-HF2528M-6MPE	
Parameter		Fixed focal length, Manual iris, 6MP, FA Lens	
Focal Length		25mm	Mount: C-Mount
F-Number		F2.8~F16	Flange Back Length: 17.526mm
Image Size		Φ9mm(1/1.8")	Filter Thread: M27×P0.5
Distortion		-0.07%	Minimum Operation Distance: 0.2m
Control	Iris	Manual	Dimension: Φ33×30.2mm
	Focus	Manual	
Operating Temperature		-10~50°C	Weight: 48.1g
Angle of View		1/1.8"	D (8.96mm): 19.2°
			H (7.37mm): 15.8°
			V (4.92mm): 10.6°



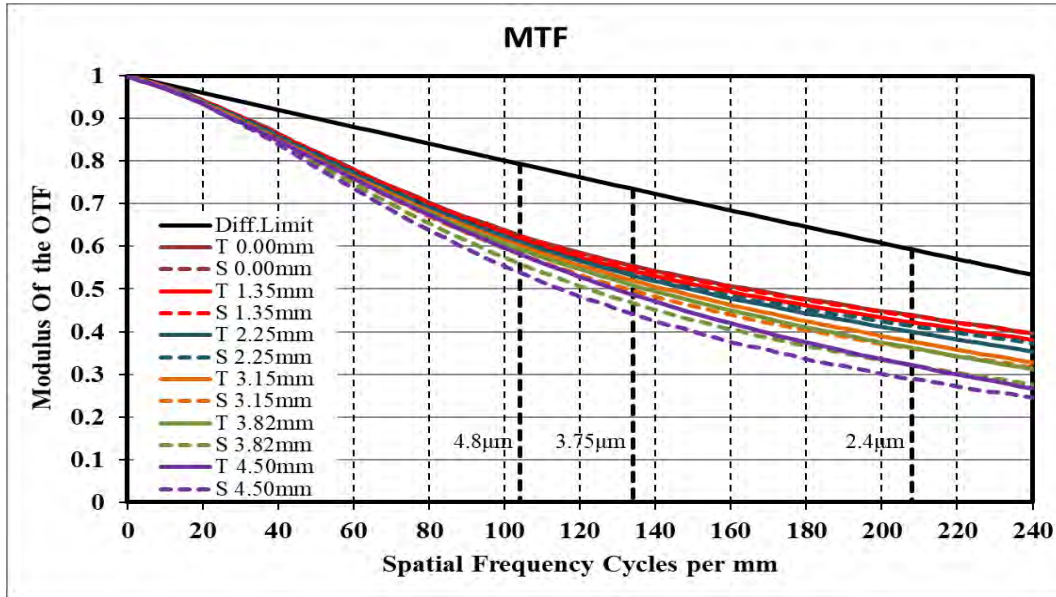
## Field of View

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	200	-0.118	62.95	41.92	53.02	39.78	
	250	-0.095	77.91	51.88	65.63	49.24	
	300	-0.080	92.63	61.70	78.04	58.56	
	350	-0.069	107.20	71.42	90.32	67.78	
	400	-0.061	121.65	81.06	102.50	76.94	
	450	-0.054	136.02	90.64	114.62	86.04	
	500	-0.049	150.32	100.19	126.68	95.10	
	550	-0.045	164.57	109.70	138.69	104.12	
	600	-0.041	178.78	119.18	150.67	113.13	
	650	-0.038	192.95	128.64	162.63	122.11	
	700	-0.036	207.10	138.08	174.56	131.07	
	800	-0.031	235.32	156.92	198.36	148.95	
	900	-0.028	263.47	175.71	222.10	166.79	
	1000	-0.025	291.56	194.47	245.80	184.60	
1	near	147	-0.163	45.50	30.29	38.32	28.74
	far	700	-0.038	193.96	129.38	163.52	122.81
2	near	118	-0.208	35.65	23.72	30.01	22.51
	far	352	-0.076	97.25	64.81	81.95	61.51
5	near	75	-0.343	21.64	14.39	18.21	13.66
	far	143	-0.190	39.12	26.01	32.92	24.68
10	near	50	-0.567	13.09	8.70	11.02	8.26
	far	73	-0.379	19.68	13.05	16.54	12.38

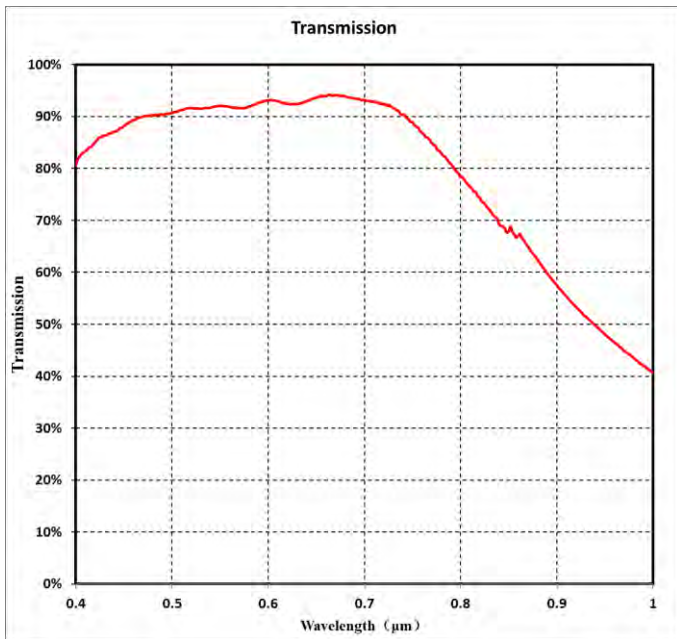
## Dimension



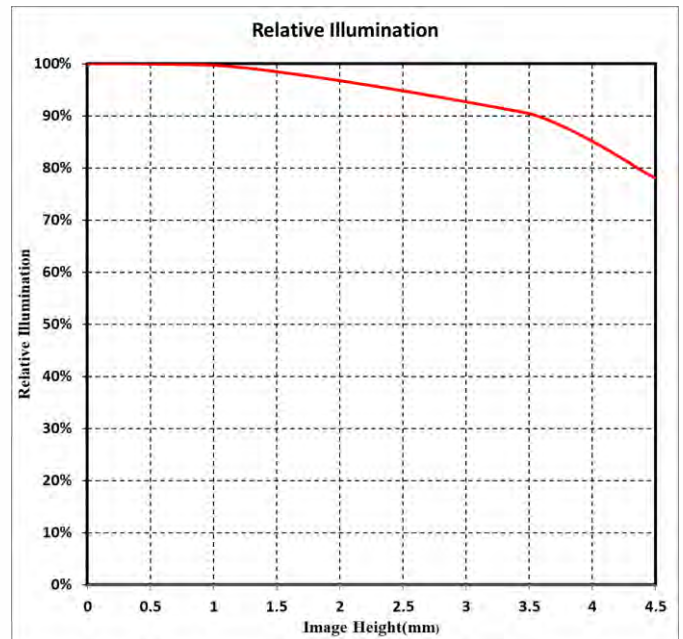
# MTF



## Transmission



## Relative Illumination



Note: The above curves are the simulate results based on F2.8,  $\beta=-0.0492$ , WD=500 mm.

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