

MVL-HF2524M-10MP

1/1.8" 25mm 10MP 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

- Ultra high resolution and consistency of image clarity
- Bigger aperture, lower distortion and higher relative illumination rate
- Achromatic optical system design, Better imaging performance with color camera
- Excellent vibration resistance performance, optical axis shifting within pixel level
- Good stability at high and low temperature
- Multilayer and broadband coating design, compatible with visible and near-infrared applications

Order Model

MVL-HF2524M-10MP

Specification

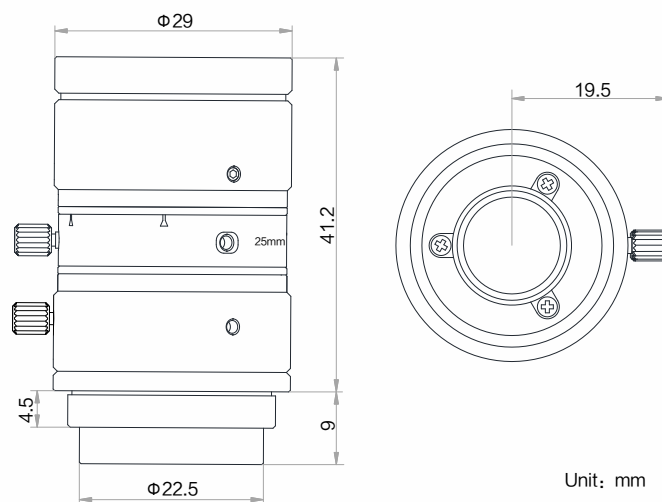
Model		MVL-HF2524M-10MP		
Parameter		Fixed focal length, Manual iris, 10MP, FA Lens		
Focal Length		25mm	Mount	C-Mount
F-Number		F2.4~F16	Flange Back Length	17.526mm
Image Size		Φ9mm(1/1.8")	Filter Thread	M27×0.5
Distortion		-0.01%	Minimum Operation Distance	0.1m
Control	Iris	Manual	Dimension	Φ29×41.25mm
	Focus	Manual		
Operating Temperature		-10~50°C	Weight	73.8g
Angle of View		1/1.8"	D (8.96mm)	19.67°
			H (7.37mm)	16.19°
			V (4.92mm)	10.85°



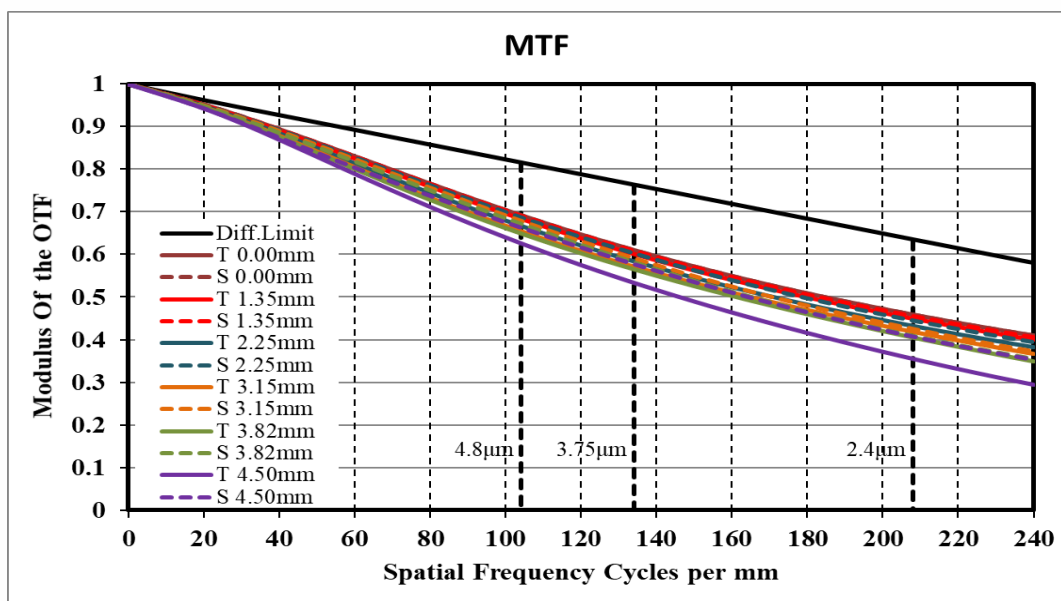
Field of View

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		-0.284	26.04	17.35	21.94	16.47
	150		-0.180	41.04	27.35	34.58	25.96
	200		-0.132	56.06	37.35	47.23	35.45
	250		-0.104	71.04	47.34	59.86	44.94
	300		-0.086	86.04	57.34	72.51	54.43
	350		-0.073	101.03	67.33	85.14	63.91
	400		-0.064	116.02	77.33	97.77	73.40
	450		-0.056	131.01	87.32	110.41	82.89
	500		-0.051	146.00	97.32	123.04	92.37
	550		-0.046	160.99	107.31	135.68	101.86
	600		-0.042	175.99	117.31	148.32	111.35
	650		-0.039	190.96	127.29	160.94	120.83
	700		-0.036	205.96	137.30	173.59	130.32
	800		-0.031	235.92	157.27	198.84	149.28
	900		-0.028	265.90	177.26	224.11	168.26
	1000		-0.025	295.93	197.28	249.42	187.26
1	near	89.0	-0.321	23.04	15.35	19.41	14.57
	far	606.0	-0.041	180.19	120.09	151.85	113.99
2	near	80.25	-0.358	20.65	13.75	17.39	13.05
	far	305.5	-0.082	90.09	60.02	75.91	56.97
5	near	62.35	-0.470	15.75	10.49	13.27	9.96
	far	125.8	-0.205	36.18	24.08	30.47	22.85
10	near	46.1	-0.655	11.30	7.52	9.52	7.14
	far	65.9	-0.409	18.16	12.08	15.29	11.47

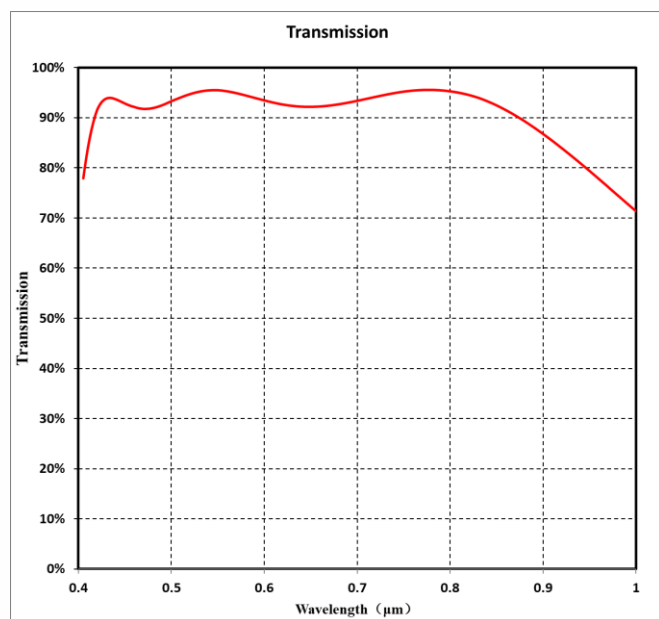
Dimension



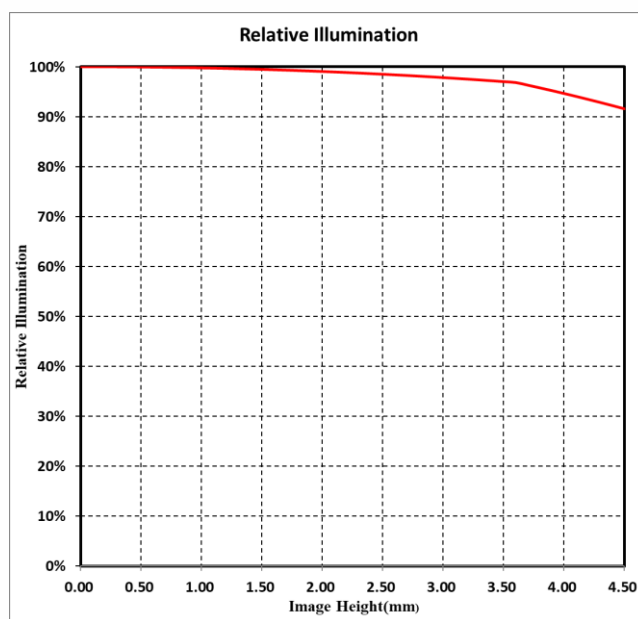
MTF



Transmission



Relative Illumination



Note: The above curves are the simulate results based on F2.4, $\beta=-0.051$, WD=500 mm.

HIKROBOT

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