

MVL-HF0624M-10MP

1/1.8" 6mm 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-HF0624M-10MP

Specification

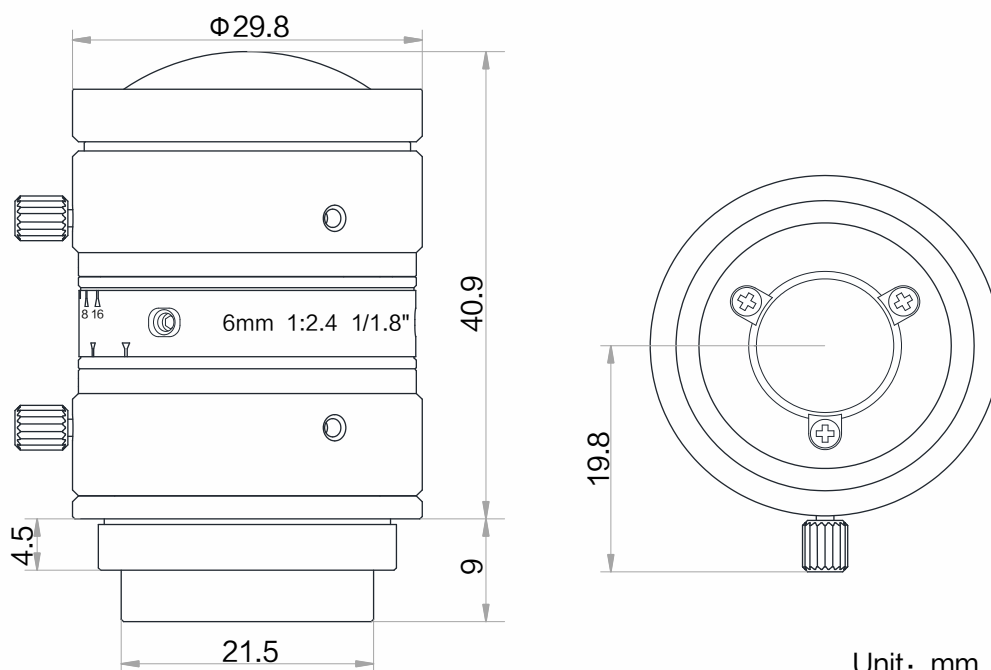
Model		MVL-HF0624M-10MP		
Parameter		Fixed focal length, Manual iris, 10MP, FA Lens		
Focal Length		6mm	Mount	C-Mount
F-Number		F2.4~F16	Flange Back Length	17.526mm
Image Size		Φ9mm(1/1.8")	Filter Thread	\
Distortion		0.37%	Minimum Operation Distance	0.1m
Control	Iris	Manual	Dimension	Φ29.8×40.9mm
	Focus	Manual		
Operating Temperature		-10~50°C	Weight	82.8g
Angle of View		1/1.8"	D (8.96mm)	72.96°
			H (7.37mm)	62.46°
			V (4.92mm)	44.05°



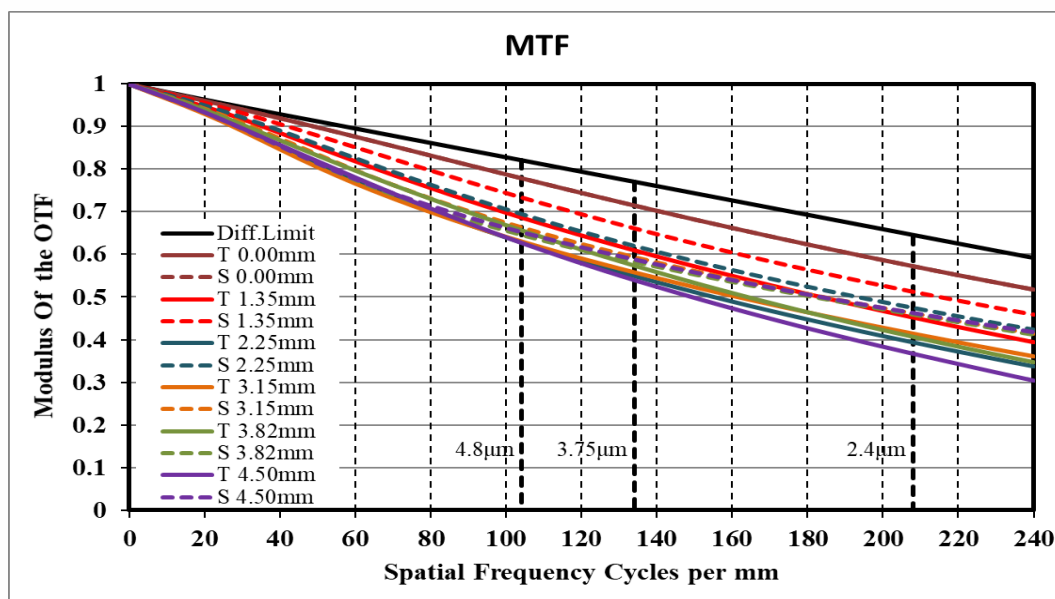
Field of View

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	-0.054	140.47	92.54	117.71	87.74
	150	-0.037	202.11	133.55	169.64	126.65
	200	-0.028	263.64	174.51	221.50	165.52
	250	-0.023	325.27	215.55	273.45	204.45
	300	-0.019	386.74	256.48	325.26	243.29
	350	-0.017	448.13	297.38	377.02	282.09
	400	-0.015	509.66	338.36	428.89	320.98
	450	-0.013	571.09	379.27	480.68	359.80
	500	-0.012	632.63	420.26	532.56	398.69
	550	-0.011	694.03	461.16	584.32	437.50
	600	-0.010	755.49	502.10	636.14	476.35
	650	-0.009	816.87	542.99	687.88	515.14
	700	-0.008	878.46	584.01	739.80	554.07
	800	-0.007	1001.42	665.92	843.47	631.78
	900	-0.007	1124.39	747.83	947.83	709.51
	1000	-0.006	1247.15	829.60	1050.64	787.10
1	near	13.3	-0.217	36.82	23.48	30.32
	far	21.1	-0.166	47.85	30.66	39.50

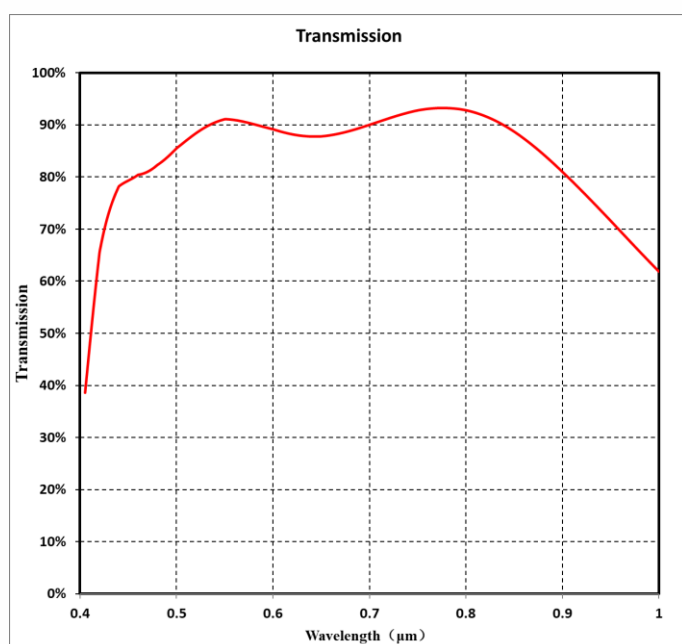
Dimension



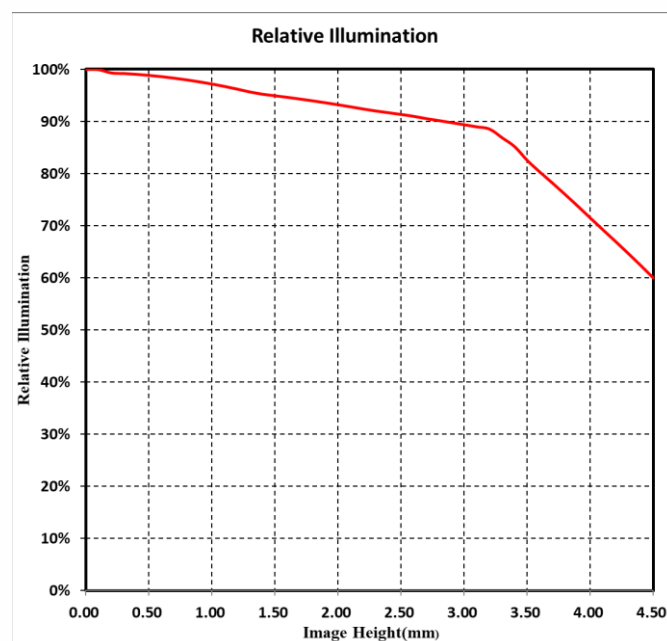
MTF



Transmission



Relative Illumination



Note: The above curves are the simulate results based on F2.4, $\beta = -0.019$, WD=300 mm.

HIKROBOT

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