

## MVL-HF0624M-10MP

### 1/1.8" 6mm 10MP FA LENS

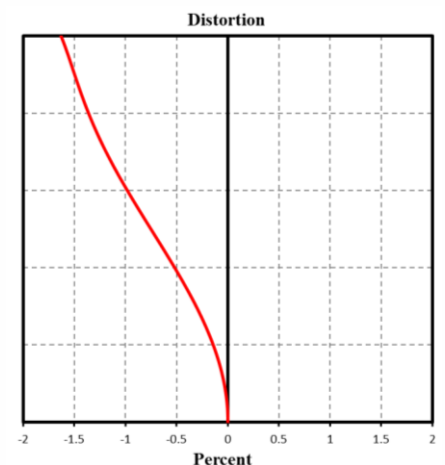
HF-P series FA Lens are optimized for machine vision light sources and sensor, with high resolution, excellent image quality, high transmittance and good stability. Featured with fixed focal length, manual aperture and compact size, it is suitable for machine vision industry applications and ideal for industrial cameras.



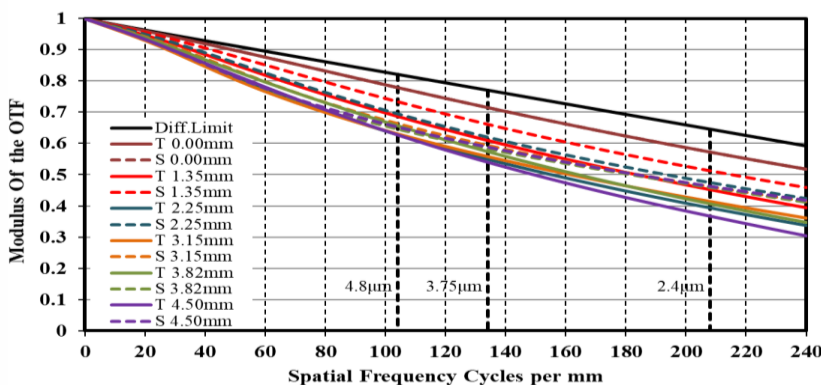
## Key Features

- 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

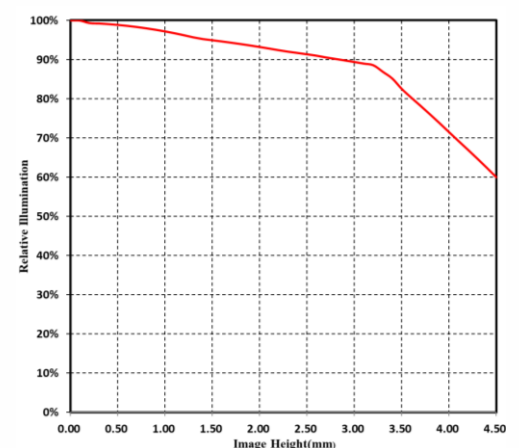
## Distortion



## MTF:



## Relative Illumination



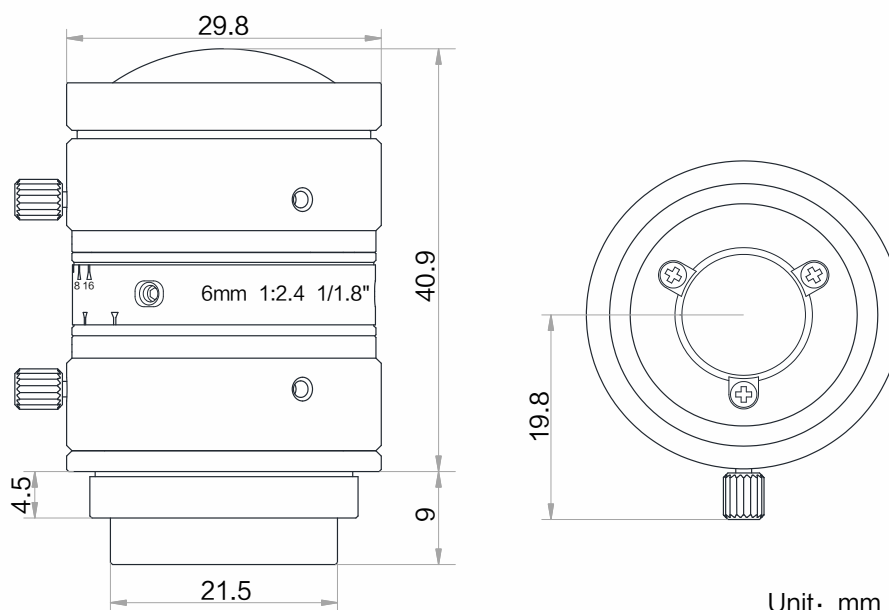
Note: The above curves are the simulate results based on F2.4,  $\beta=-0.019$ , WD=300 mm.



## Specification

Parameter	Model	MVL-HF0624M-10MP
	Fixed focal length, Manual iris, 10MP, FA Lens	
Performance		
Focal Length	6 mm	
F-Number	F2.4~F16	
Image Size	Φ9 mm(1/1.8'')	
Distortion	0.37%	
Minimum Operation Distance	0.1 m	
Field of View	D (8.96mm) : 72.96° H (7.38mm) : 62.46° V (4.92mm) : 44.05°	
Mechanical		
Iris Control	Manual	
Focus Control	Manual	
Mount	C-Mount	
Flange Back Length	17.526 mm	
Dimension	Φ29.8×40.9 mm	
Weight	82.8 g	
Temperature	-10 ~ 50℃	
General		
Certification	RoHS2.0	

## Dimension



## Field of View

Extension (mm)	Working Distance (mm)		Magnification	Field of View (mm)			
				1/1.8"		1/2"	
				H(7.38mm)	H(4.92mm)	H(6.22mm)	V(4.67mm)
1	near	13.3	-0.217	36.82	23.48	30.32	22.21
	far	21.1	-0.166	47.85	30.66	39.50	29.01
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	398.70
	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

# HIKROBOT

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