

# MVL-KF1228M-12MP

## 1.1" 12 mm 12 MP FA LENS

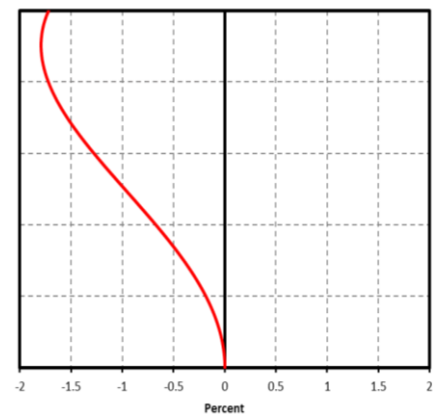
KF series FA Lens are optimized for machine vision light sources and sensors, with high resolution, excellent image uniformity, high transmittance and good stability. Featured with fixed focal length, manual aperture and compact size, it is suitable for machine vision industry applications.



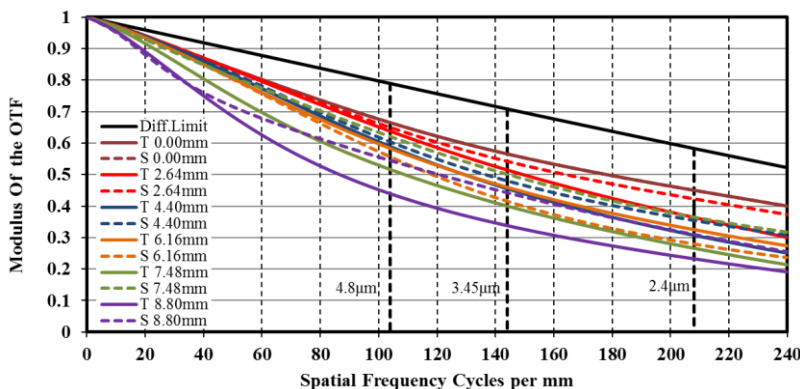
### Key Features

- High resolution, high definition of the whole image
- Low distortion, high illumination relative
- Maximum image circle of 1.1"
- Support ultra-short working distance, maintaining excellent optical properties at different object distances

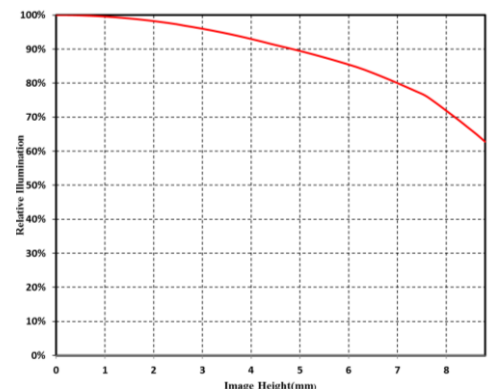
### Distortion



### MTF



### Relative Illumination



Note: The above curves are the simulate results based on F2.8,  $\beta=-0.038$ , WD=300 mm.



## Field of View

Extension (mm)	Working Distance (mm)	Magnification	Field of View (mm)					
			1.1"		1"		2/3"	
			H (14.14mm)	V (10.35mm)	H (12.45mm)	V (9.83mm)	H (8.45mm)	V (7.07mm)
2	25	-0.256	58.39	41.75	50.84	39.54	33.76	28.08
1	50	-0.169	87.61	62.98	76.49	59.68	51.02	42.49
	75	-0.126	116.61	84.19	102.04	79.82	68.31	56.92
0	100	-0.100	145.95	105.37	127.71	99.90	85.49	71.25
	150	-0.071	203.80	147.63	178.63	140.01	119.92	100.00
	200	-0.055	261.51	189.80	229.44	180.04	154.27	128.69
	250	-0.045	319.15	231.94	280.20	220.04	188.60	157.37
	300	-0.038	376.77	274.05	330.93	260.01	222.92	186.03
	350	-0.033	434.36	316.16	381.64	299.98	257.22	214.69
	400	-0.029	491.94	358.25	432.34	339.94	291.52	243.34
	450	-0.026	549.52	400.34	483.04	379.89	325.81	271.99
	500	-0.024	607.09	442.43	533.74	419.84	360.11	300.63
	550	-0.022	664.65	484.51	584.43	459.79	394.40	329.28
	600	-0.020	722.21	526.59	635.11	499.74	428.69	357.92
	650	-0.018	779.77	568.67	685.80	539.68	462.97	386.56
	700	-0.017	837.33	610.75	736.48	579.63	497.26	415.21
	750	-0.016	894.89	652.83	787.16	619.57	531.54	443.85
	800	-0.015	952.44	694.90	837.84	659.51	565.83	472.49
850	-0.014	1010.00	736.98	888.52	699.45	600.11	501.13	
900	-0.013	1067.55	779.06	939.20	739.39	634.40	529.76	
1000	-0.012	1182.57	863.25	1040.56	819.32	703.02	587.09	

# HIKROBOT

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en.hikrobotics.com

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