

# MVL-KF3528M-12MP

## 1.1" 35 mm 12 MP FA LENS

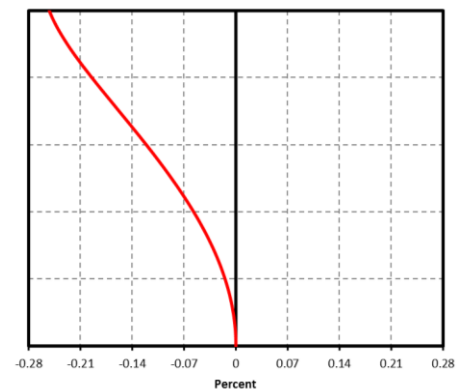
KF series FA Lens are optimized for machine vision light sources and sensors, with high resolution, excellent image uniformity, high transmittance and good stability. Featured with fixed focal length, manual aperture and compact size, it is suitable for machine vision industry applications.



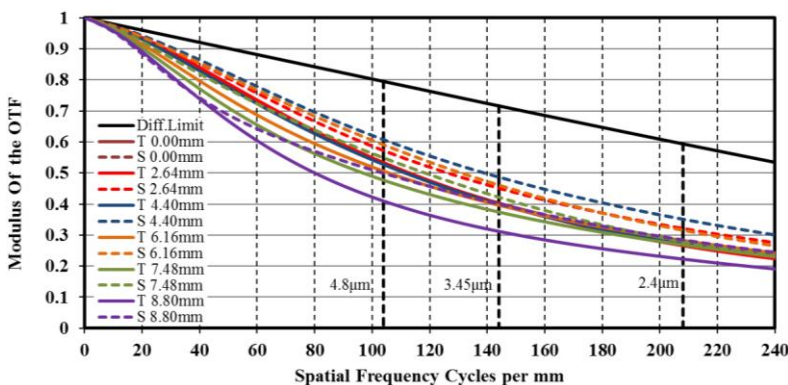
### Key Features

- 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

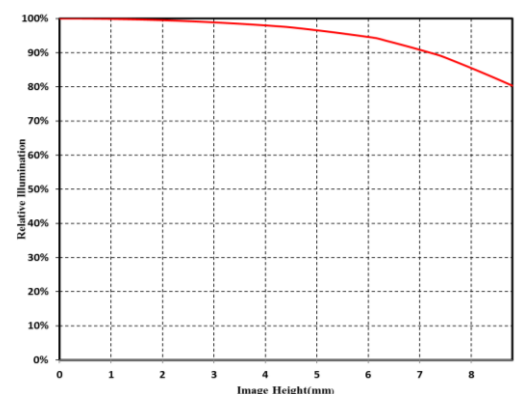
### Distortion



### MTF



### Relative Illumination

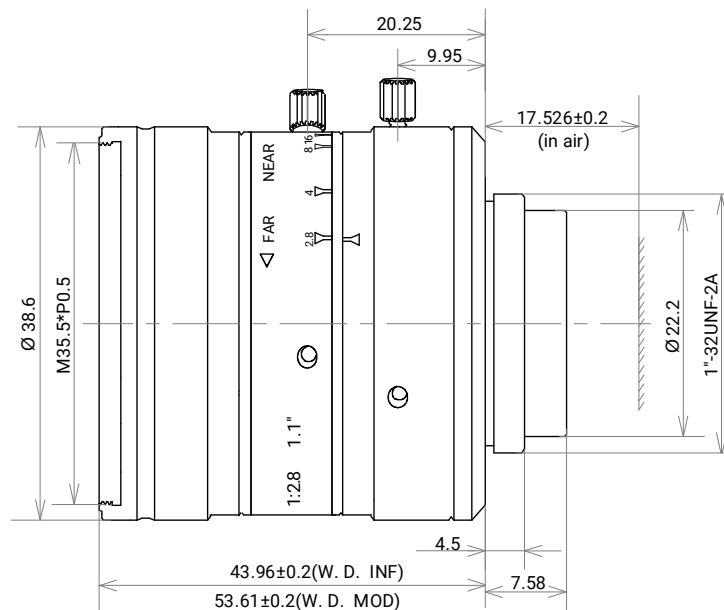


Note: The above curves are the simulate results based on F2.8,  $\beta=-0.099$ , WD=350 mm.

## Specification

Model	MVL-KF3528M-12MP
Parameter	Fixed focal length, Manual iris, 12 MP, FA Lens
<b>Performance</b>	
Focal length	35 mm
F-number	F2.8 to F16
Image size	Ø17.6 mm
Optical distortion	-0.21%
Minimum object distance	0.2 m
Field of view	D (17.52mm): 26.7° H (14.14mm): 21.4° V (10.35mm): 15.9°
<b>Mechanical</b>	
Iris control	Manual
Focus control	Manual
Filter thread	M35.5 × 0.5
Mount	C-mount
Flange back length	17.526 mm
Dimension	Ø38.6 mm × 53.61 mm (Ø1.5" × 2.1")
Weight	119 g (0.3 lb.)
Temperature	-10°C to 50°C (14°F to 122°F)
<b>General</b>	
Certification	RoHS 2.0

## Dimension



Unit: 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)
38	25	-1.217	11.62	8.51	10.23	8.08	6.94	5.81
18	50	-0.654	21.61	15.82	19.03	15.02	12.91	10.80
10	75	-0.451	31.35	22.95	27.61	21.80	18.74	15.68
6	100	-0.343	41.18	30.14	36.26	28.63	24.61	20.59
2	150	-0.232	60.91	44.58	53.63	42.34	36.40	30.45
0	200	-0.175	80.67	59.05	71.03	56.08	48.21	40.33
	250	-0.139	101.51	74.30	89.38	70.57	60.66	50.76
	300	-0.116	122.36	89.57	107.74	85.06	73.12	61.18
	350	-0.099	143.21	104.83	126.10	99.56	85.58	71.61
	400	-0.086	164.06	120.09	144.45	114.05	98.04	82.03
	450	-0.077	184.91	135.35	162.81	128.55	110.50	92.46
	500	-0.069	205.76	150.61	181.17	143.04	122.96	102.89
	550	-0.062	226.62	165.88	199.53	157.54	135.43	113.31
	600	-0.057	247.47	181.14	217.89	172.03	147.89	123.74
	650	-0.053	268.32	196.40	236.25	186.53	160.35	134.16
	700	-0.049	289.17	211.66	254.61	201.02	172.81	144.59
	750	-0.046	310.02	226.93	272.97	215.52	185.27	155.02
	800	-0.043	330.88	242.19	291.33	230.01	197.73	165.44
	850	-0.040	351.73	257.45	309.69	244.51	210.19	175.87
	900	-0.038	372.58	272.71	328.05	259.01	222.65	186.29
950	-0.036	393.43	287.98	346.41	273.50	235.11	196.72	
1000	-0.034	414.28	303.24	364.77	288.00	247.58	207.15	

**HIKROBOT**

Hangzhou Hikrobot Co. Ltd.  
en.hikrobotics.com

© Hangzhou Hikrobot Co., Ltd. All Rights Reserved.

Hangzhou Hikrobot does not tolerate any infringement. Any organization or individual may not imitate or reproduce in whole or in part of the content. The data herein is based on Hikrobot's internal evaluation. Actual data may vary depending on specific configuration and operating condition. The information herein is subject to change without notice. All the content has been checked conscientiously. Nevertheless, Hikrobot shall not be liable to damages resulting from errors, inconsistencies or omissions.