

MVL-MF3528M-10MPE 2/3" 35 mm 10 MP FA Lens

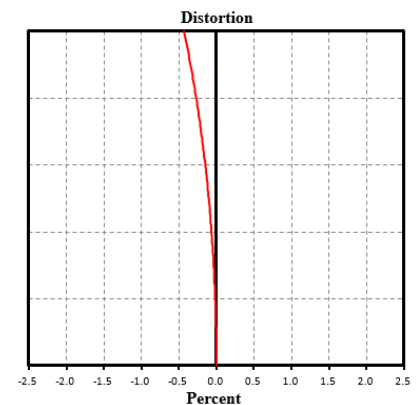
MF-10MPE series FA Lens are optimized for machine vision light sources and sensors, with high resolution, excellent image uniformity, high transmittance and good stability. Featured with fixed focal length, manual aperture, and compact size, it is suitable for machine vision industry applications.



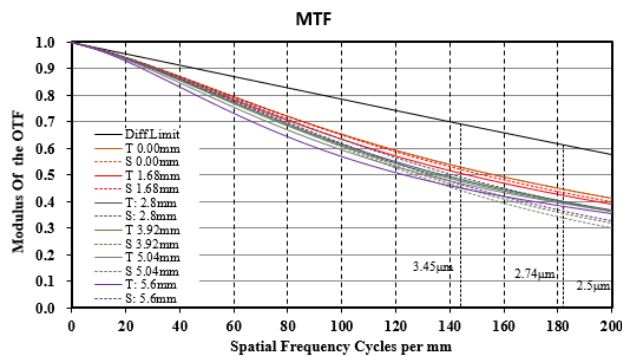
Key Feature

- High resolution and consistency of image clarity
- Lower distortion and higher relative illumination rate
- Excellent performance at high and low temperature
- Good optical performance at short working distance

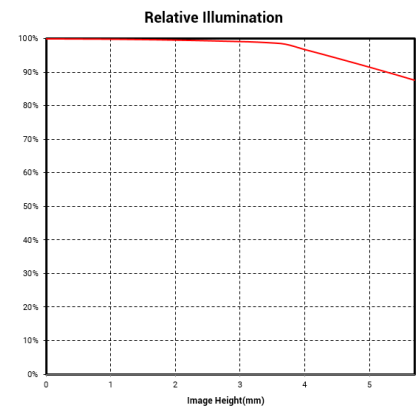
Distortion



MTF



Relative Illumination

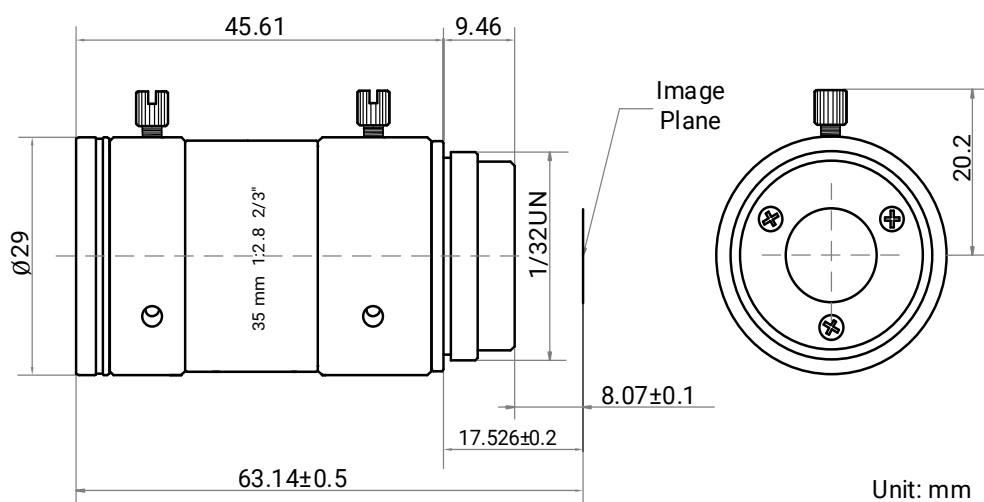


Note: The above curves are the simulate results based on F2.8, $\beta = -0.088$, WD=400 mm.

Specification

Model	MVL-MF3528M-10MPE
Performance	
Focal length	35 mm
F-number	F2.8 to F16
Image size	Φ11.2 mm (2/3")
Distortion	-0.24%
Min. object distance	0.15 m
Field of view	D (11.01 mm): 15.25° H (8.45 mm): 11.23° V (7.07 mm): 9.12°
Mechanical	
Iris control	Manual
Focus control	Manual
Filter thread	M27 × P0.5
Mount	C-mount
Flange back length	17.526 mm
Dimension	Φ29 mm × 45.61 mm (Φ1.1" × 1.8")
Weight	68 g (0.1 lb.)
Temperature	-10 °C to 50 °C (14 °F to 122 °F)
General	
Certification	RoHS 2.0

Dimension



Field of View

Extension (mm)	Working Distance (mm)		Magnification	Field of View (mm)					
				2/3"		1/1.8"		1/2"	
				H (8.45mm)	V (7.07mm)	H (7.38mm)	V (4.92mm)	H (6.22mm)	V (4.67mm)
2	Near	124.1	-0.308	27.5	23.0	24.0	16.0	20.2	15.2
	Far	585.6	-0.059	143.3	119.9	125.1	83.4	105.4	79.1
1	Near	135.8	-0.281	30.2	25.2	26.3	17.5	22.2	16.6
	Far	1164.6	-0.03	286.6	239.7	250.2	166.7	210.8	158.2
0		150	-0.253	33.5	28.0	29.2	19.5	24.6	18.5
		200	-0.180	45.8	38.3	40.0	26.7	33.7	25.3
		250	-0.143	58.2	48.7	50.8	33.9	42.8	32.1
		300	-0.119	70.6	59.0	61.6	41.1	51.9	39.0
		350	-0.101	82.9	69.4	72.4	48.2	61.0	45.8
		400	-0.088	95.3	79.7	83.2	55.4	70.1	52.6
		450	-0.078	107.7	90.1	94.0	62.6	79.2	59.5
		500	-0.070	120.1	100.4	104.8	69.8	88.3	66.3
		550	-0.064	132.4	110.8	115.6	77.0	97.4	73.1
		600	-0.058	144.8	121.1	126.4	84.2	106.5	79.9
		650	-0.054	157.2	131.5	137.2	91.4	115.6	86.8
		700	-0.050	169.6	141.8	148.0	98.6	124.7	93.6
		800	-0.044	194.3	162.5	169.6	113.0	142.9	107.3
	900	-0.039	219.1	183.2	191.2	127.4	161.1	120.9	
	1000	-0.035	243.8	203.9	212.9	141.8	179.3	134.6	

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.