

MVL-KF2540-25MP

1.2" 25 mm 25 MP FA Lens

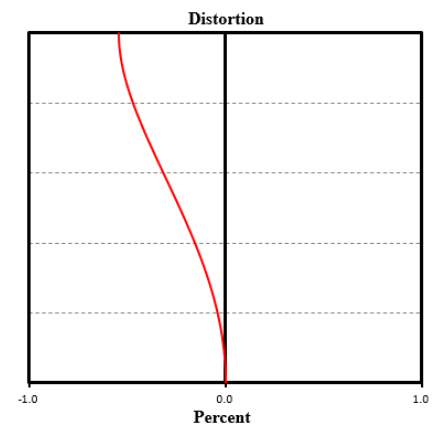
KF-P anti vibration series FA Lens are optimized for machine vision light sources and sensors, with high resolution, excellent image uniformity and good stability. Featured with fixed focal length, fixed iris and compact size, it is suitable for machine vision industry applications.



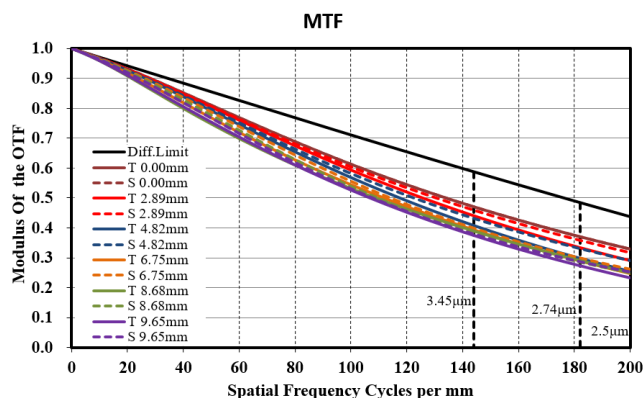
Key Features

- Ultra high resolution, high consistency in image center and edge clarity
- 1.2" image size, F4 fixed iris, structurally stable
- Ultra low distortion, high peripheral brightness ratio
- Maintain excellent optical properties at different object distances
- Excellent resistance to vibration, impact, and high and low temperature stability

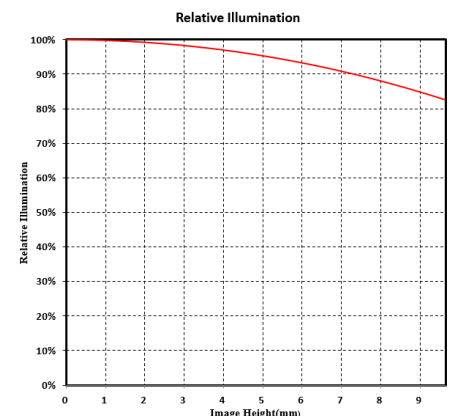
Distortion



MTF



Relative Illumination

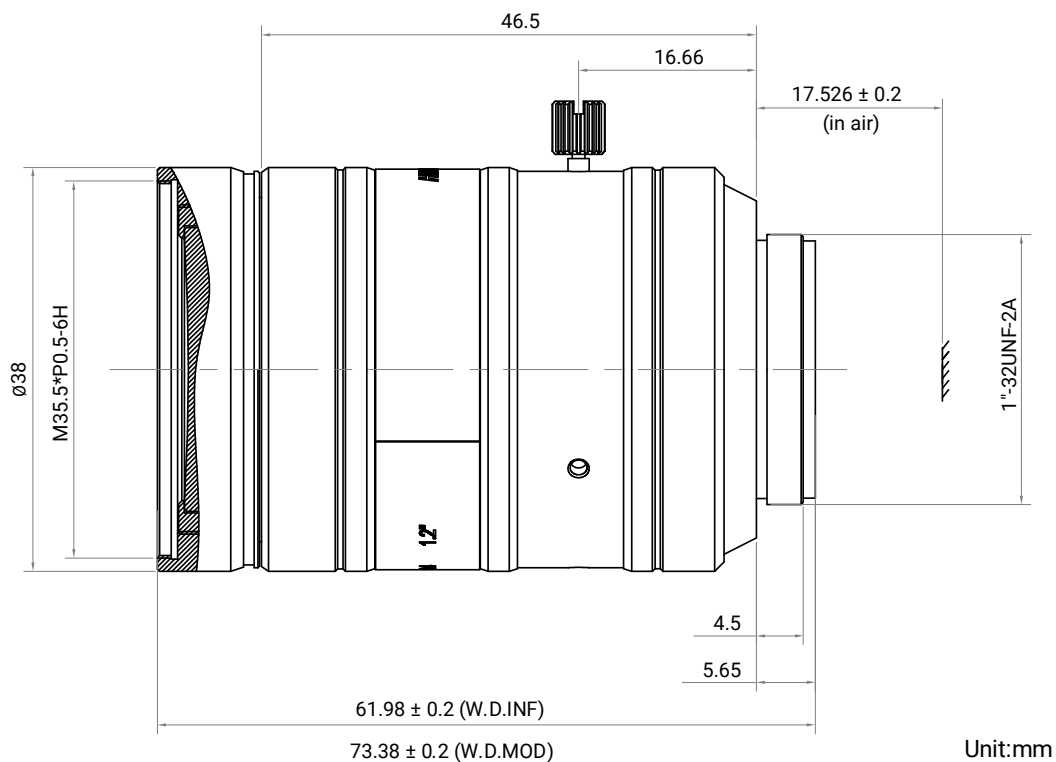


Note: The above curves are the simulate results based on F4, $\beta = -0.079$, WD=300 mm

Specification

Parameter	Model	MVL-KF2540-25MP
	Fixed Focal Length, Fixed Iris, 25 MP, FA Lens	
Performance		
Focal length	25 mm	
F-number	F4.0	
Image size	Ø19.3 mm (1.2")	
Distortion	−0.08%	
Minimum object distance	0.08 m	
Field of view	D (19.3 mm): 41.6° H (14.6 mm): 32.04° V (12.63 mm): 27.88°	
Mechanical		
Iris control	Fixed	
Focus control	Manual	
Filter thread	M35.5 × P0.5	
Mount	C-mount	
Flange back length	17.526 mm	
Dimension	Ø38 mm × 56.33 mm to 67.73 mm (Ø1.5" × 2.2" to 2.7")	
Weight	151 g (0.3 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)	Magnifi cation	Field of View (mm)					
			1.2"		1.1"		1"	
			H (14.6 mm)	V (12.63 mm)	H (14.14 mm)	V (10.35 mm)	H (13.31 mm)	V (8.76 mm)
0	80	−0.285	51.2	44.3	49.6	36.3	46.7	30.7
	100	−0.231	63.2	54.7	61.2	44.8	57.6	37.9
	150	−0.156	93.3	80.8	90.4	66.2	85.1	56.0
	200	−0.118	123.5	106.8	119.6	87.5	112.6	74.1
	250	−0.095	153.6	132.9	148.8	108.9	140.0	92.2
	300	−0.079	183.7	158.9	177.9	130.2	167.5	110.2
	350	−0.068	213.8	185.0	207.1	151.6	194.9	128.3
	400	−0.060	244.0	211.0	236.3	172.9	222.4	146.4
	450	−0.053	274.1	237.1	265.4	194.3	249.9	164.4
	500	−0.048	304.2	263.2	294.6	215.6	277.3	182.5
	550	−0.044	334.3	289.2	323.8	237.0	304.8	200.6
	600	−0.040	364.4	315.3	353.0	258.4	332.2	218.7
	650	−0.037	394.6	341.3	382.1	279.7	359.7	236.7
	700	−0.034	424.7	367.4	411.3	301.1	387.2	254.8
	800	−0.030	484.9	419.5	469.6	343.8	442.1	291.0
	900	−0.027	545.2	471.6	528.0	386.5	497.0	327.1
	1000	−0.024	605.4	523.7	586.3	429.2	551.9	363.2