MVL-KF2535-25MP

1.2" 25 mm 25 MP FA Lens

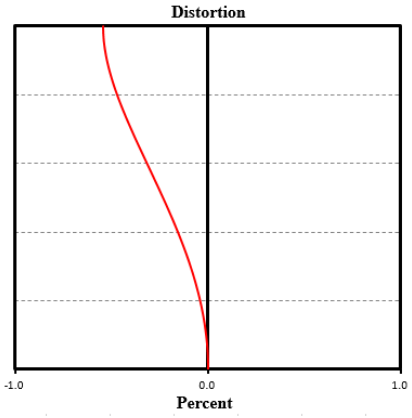
KF-P anti vibration series FA Lens are optimized for machine vision light sources and sensors, with high resolution, excellent image uniformity and good stability. Featured with fixed focal length, fixed iris and compact size, it is suitable for machine vision industry applications.



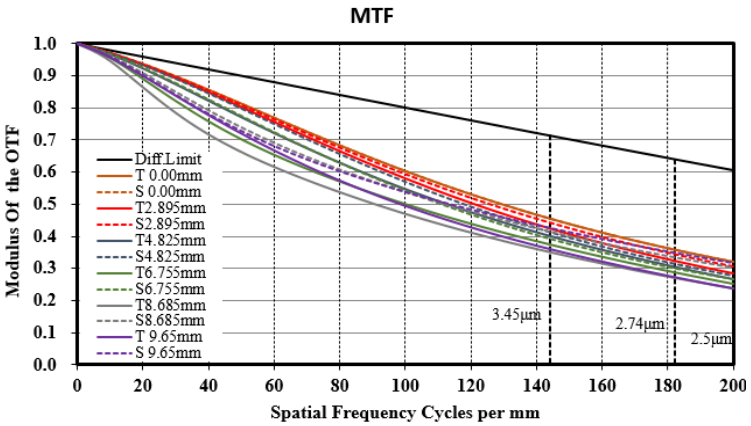
Key Features

- Ultra high resolution, high consistency in image center and edge clarity
- 1.2" image size, F3.5 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

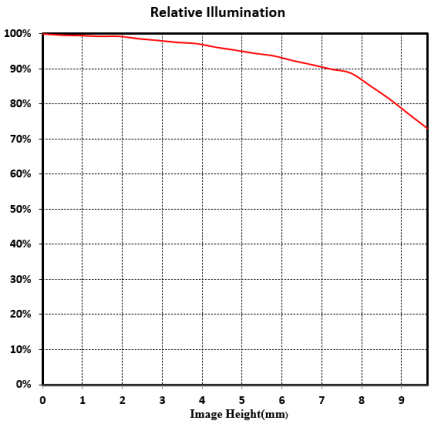
Distortion



MTF



Relative Illumination

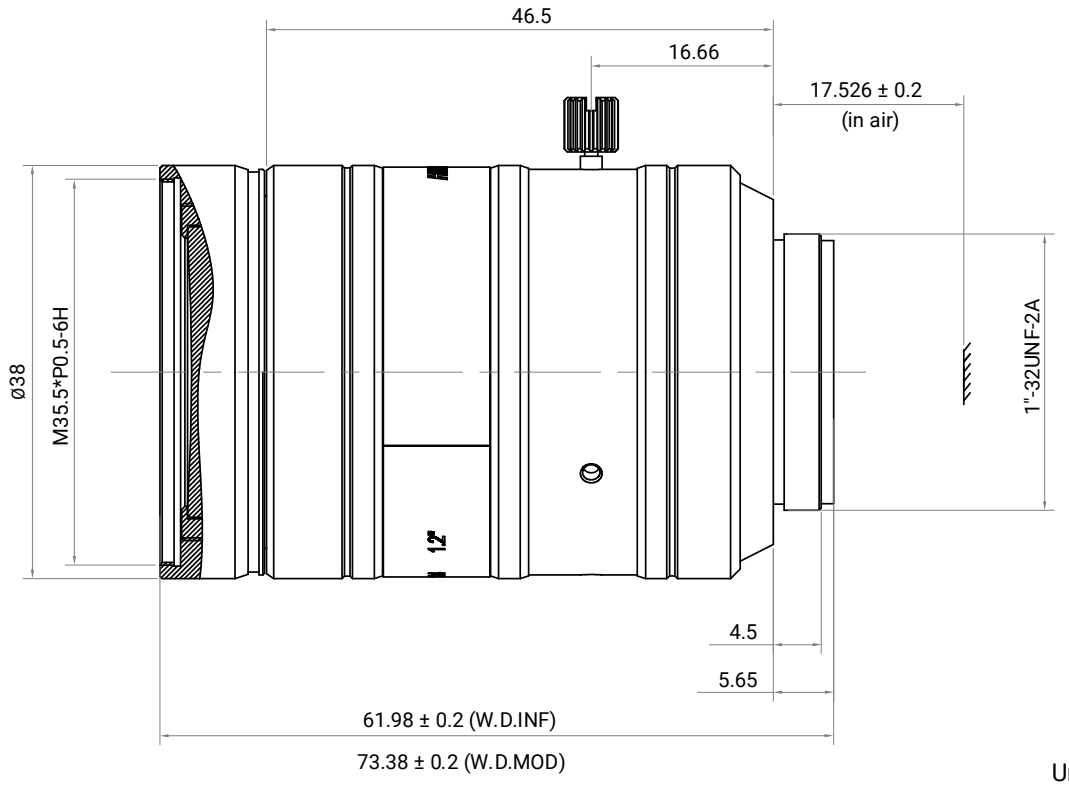


Note: The above curves are the simulate results based on F3.5, β=−0.08, WD=300 mm

Specification

Parameter \ Model	MVL-KF2535-25MP
	Fixed Focal Length, Fixed Iris, 25 MP, FA Lens
Performance	
Focal length	25 mm
F-number	F3.5
Image size	Ø19.3 mm (1.2")
TV distortion	−0.18%
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



Unit:mm

Field of View

Extension (mm)	Working Distance (mm)		Magnification	Field of View (mm)					
				1.2"		1.1"		2/3"	
				H (14.6 mm)	V (12.63 mm)	H (14.14 mm)	V (10.35 mm)	H (8.45 mm)	V (7.07 mm)
10	near	27	−0.658	22.3	19.3	21.6	15.8	12.9	10.8
	far	45	−0.414	35.7	30.8	34.5	25.2	20.5	17.1
5	near	43	−0.472	31.1	26.9	30.1	22.0	17.9	15.0
	far	104	−0.207	71.0	61.3	68.8	50.2	40.9	34.2
2	near	60	−0.360	40.7	35.2	39.4	28.8	23.5	19.7
	far	279	−0.083	177.0	153.0	171.4	125.2	102.1	85.4
1	near	69	−0.3226	45.43	39.27	43.99	32.15	26.23	21.94
	far	571	−0.0415	353.72	305.73	342.51	250.27	204.15	170.71
0	80		−0.285	51.4	44.4	49.8	36.4	29.7	24.8
	100		−0.231	63.5	54.9	61.5	44.9	36.7	30.7
	150		−0.156	93.8	81.1	90.8	66.4	54.1	45.3
	200		−0.118	124.0	107.2	120.1	87.8	71.6	59.9
	250		−0.095	154.3	133.4	149.4	109.2	89.1	74.5
	300		−0.080	184.6	159.5	178.7	130.6	106.5	89.1
	350		−0.068	214.8	185.7	208.0	152.0	124.0	103.7
	400		−0.060	245.1	211.9	237.3	173.4	141.5	118.3
	450		−0.053	275.3	238.0	266.6	194.9	159.0	132.9
	500		−0.048	305.6	264.2	295.9	216.3	176.4	147.5
	550		−0.044	335.9	290.3	325.2	237.7	193.9	162.2
	600		−0.040	366.1	316.5	354.5	259.1	211.4	176.8
	650		−0.037	396.4	342.6	383.8	280.5	228.8	191.4
	700		−0.034	426.6	368.8	413.1	301.9	246.3	206.0
	800		−0.030	487.1	421.1	471.7	344.8	281.2	235.2
	900		−0.027	547.6	473.4	530.3	387.6	316.2	264.4
	1000		−0.024	608.1	525.7	588.9	430.4	351.1	293.6

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