

MVL-MF0828M-8MP

2/3" 8mm 8MP FA Lens

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



Key Features

- Ultra high resolution and compatible with 2.4 μm pixel size
- Ultra high consistency of image clarity
- Ultra low distortion to ensure measurement and positioning accuracy
- Higher relative illumination ratio and luminance uniformity of image
- Supports ultra-short working distance with good optical performance
- Compact design, excellent vibration resistance and high and low temperature performance

Order Model

MVL-MF0828-8MP

Specification

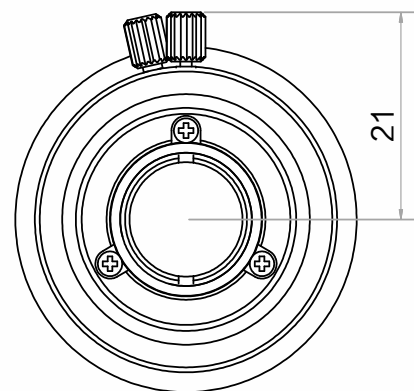
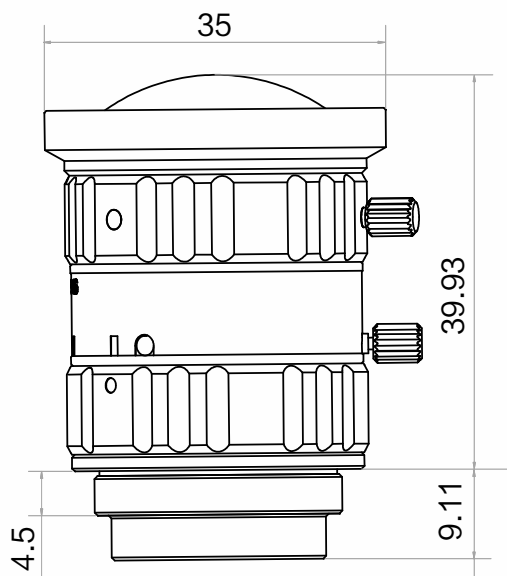
Model		MVL-MF0828-8MP	
Parameter		Fixed focal length, Manual iris, 8MP, FA Lens	
Focal Length		8mm	C-Mount
F-Number		F2.8~F16	17.526mm
Image Size		$\Phi 11\text{mm}(2/3'')$	/
Optical Distortion		-1.51%	0.1m
Control	Iris	Manual Operation	Dimension
	Focus	Manual Operation	
Operating Temperature		-10~50°C	Weight
Field of View		D (11.1mm)	68.458
		H (8.45mm)	54.966
		V (7.07mm)	47.062



Field of View

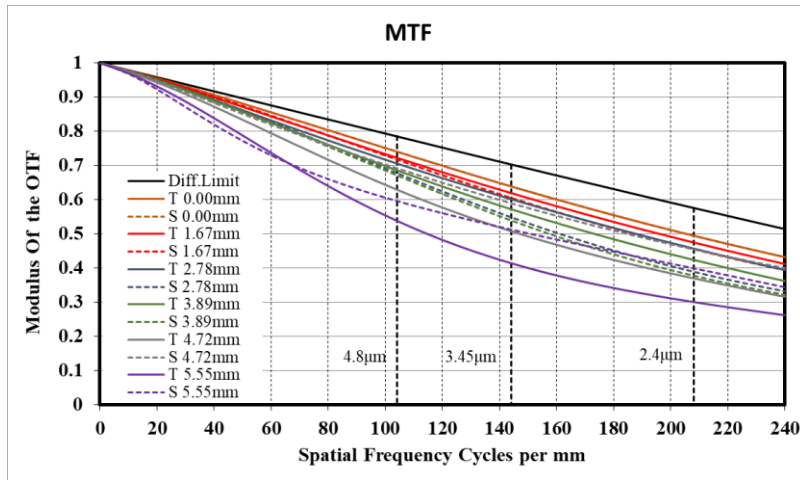
Working Distance (mm)	Magnification	Extension (mm)	Field of View (mm)					
			2/3"		1/1.8"		1/2"	
			(8.45mm×7.07mm)		(7.38mm×4.92mm)		(6.22mm×4.67mm)	
			H	V	H	V	H	V
25	-0.1920	1	46.107	38.028	39.813	26.010	33.202	24.649
50	-0.1201	0.4	72.748	60.296	63.067	41.456	52.769	39.305
75	-0.0874	0.2	99.114	82.344	86.086	56.770	72.157	53.835
100	-0.0687	0	125.738	104.624	109.344	72.249	91.749	68.524
150	-0.0489	0	182.799	152.661	159.423	105.194	133.674	100.159
200	-0.0371	0	230.945	192.654	201.243	133.400	169.156	126.552
250	-0.0301	0	282.436	235.749	246.233	163.356	207.017	154.978
300	-0.0254	0	334.552	279.299	291.698	193.619	245.376	183.696
350	-0.0222	0	392.706	329.570	344.075	228.290	289.035	216.531
400	-0.0193	0	438.557	366.401	382.628	254.145	321.992	241.131
450	-0.0172	0	490.744	409.952	428.094	284.408	360.298	269.848
500	-0.0156	0	546.041	456.347	476.514	316.626	401.060	300.423
550	-0.0142	0	598.412	500.162	522.253	347.077	439.601	329.319
600	-0.0131	0	650.784	543.978	567.993	377.527	478.142	358.215
650	-0.0121	0	703.155	587.793	613.732	407.978	516.683	387.111
700	-0.0113	0	756.158	632.204	660.088	438.822	555.714	416.380
800	-0.0098	0	860.987	719.915	751.651	499.777	632.864	474.238
900	-0.0088	0	965.817	807.626	843.214	560.733	710.014	532.067
1000	-0.0079	0	1071.120	895.791	935.245	621.986	787.534	590.194

Dimension

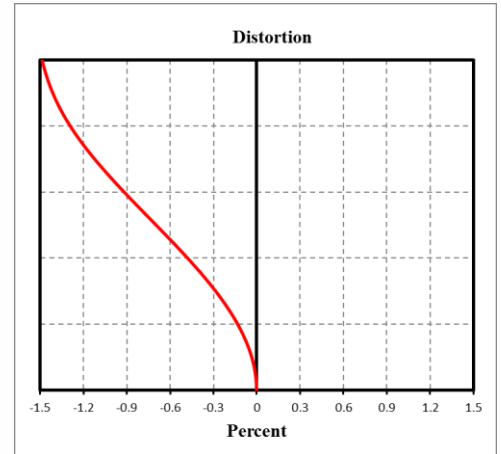


Unit:mm

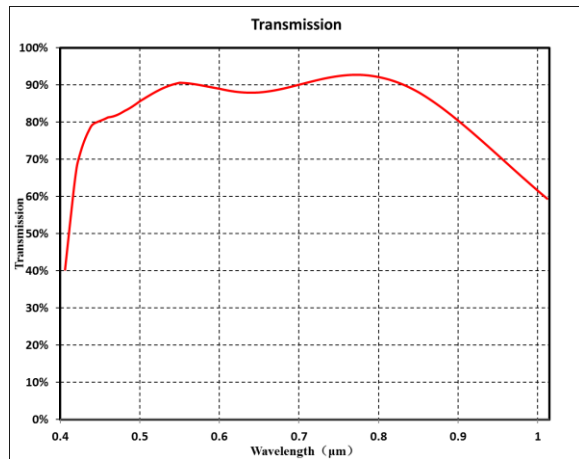
MTF



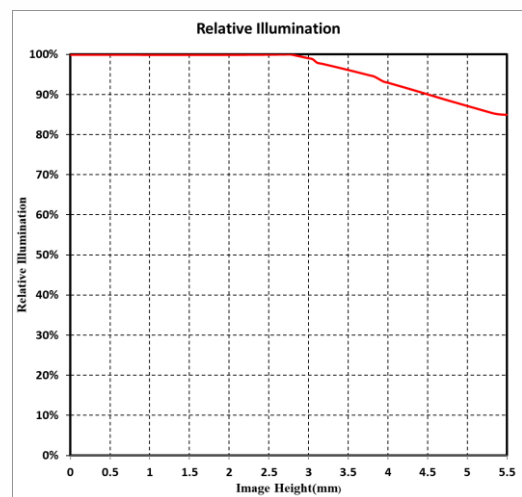
Distortion



Transmission



Relative Illumination



Note: The above curves are the simulate results based on F2.8, $\beta=0.03$ WD=250mm

HIKROBOT

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