

MVL-MF5028M-8MP

2/3" 50mm 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-MF5028MP-8MP

Specification

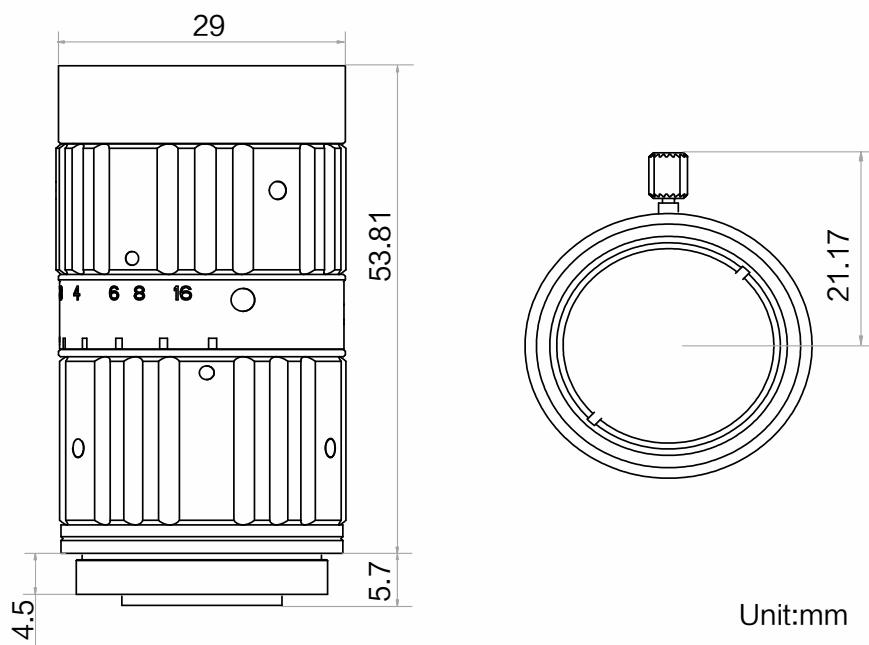
Model		MVL-MF5028-8MP	
Parameter		Fixed focal length, Manual iris, 8MP, FA Lens	
Focal Length		50mm	C-Mount
F-Number		F2.8~F16	17.526mm
Image Size		Φ11mm(2/3")	M27×0.5
Optical Distortion		-0.05%	0.4m
Control	Iris	Manual Operation	Dimension
	Focus	Manual Operation	
Operating Temperature		-10~50°C	Weight
Field of View		D (11.1mm)	11.675
		H (8.45mm)	8.814
		V (7.07mm)	7.382



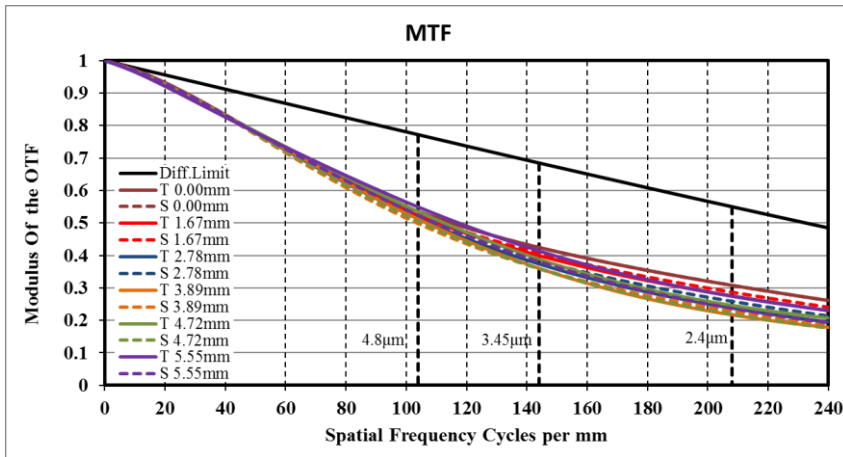
Field of View

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
100	-0.9006	37.7	6.859	5.754	6.009	4.004	5.063	3.802
150	-0.4728	16.4	14.777	12.332	12.883	8.532	10.833	8.092
200	-0.3206	8.8	22.994	19.178	20.018	13.332	16.870	12.654
250	-0.2425	4.9	31.492	26.195	27.385	18.186	22.993	17.259
300	-0.1949	2.7	39.978	33.325	34.827	23.071	29.229	21.896
350	-0.1630	1.1	48.470	40.448	42.253	27.993	35.509	26.561
400	-0.1401	0	56.952	47.571	49.673	32.942	41.786	31.250
450	-0.1226	0	65.460	54.715	57.128	37.973	48.096	36.022
500	-0.1090	0	73.962	61.846	64.579	42.996	54.403	40.793
550	-0.0982	0	82.439	68.975	72.001	47.989	60.691	45.546
600	-0.0893	0	90.924	76.107	79.437	52.981	66.964	50.293
650	-0.0819	0	99.413	83.201	86.847	57.964	73.234	55.032
700	-0.0757	0	107.896	90.313	94.264	62.937	79.498	59.754
750	-0.0703	0	116.340	97.421	101.681	67.905	85.754	64.479
800	-0.0657	0	124.827	104.533	109.077	72.879	92.003	69.197
850	-0.0616	0	133.285	111.632	116.491	77.851	98.260	73.913
900	-0.0580	0	141.758	118.735	123.911	82.808	104.512	78.621
950	-0.0548	0	150.234	125.798	131.295	87.741	110.751	83.321
1000	-0.0520	0	158.703	132.910	138.696	92.708	117.000	88.021

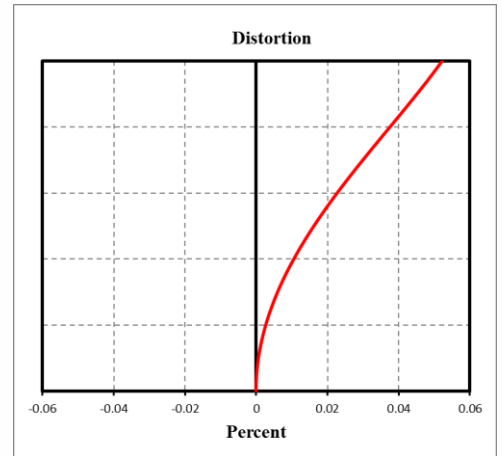
Dimension



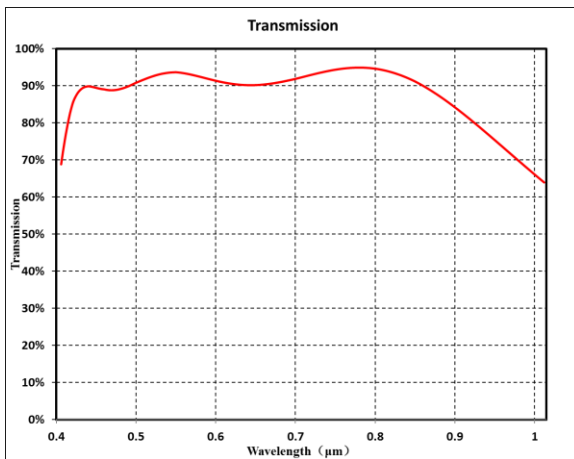
MTF



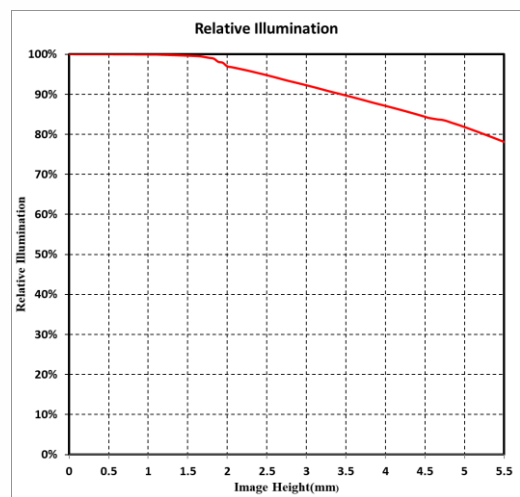
Distortion



Transmission



Relative Illumination



Note: The above curves are the simulate results based on F2.8, $\beta=-0.076$, WD=700mm.

HIKROBOT

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