SEDECO IMAGING

HIKROBOT

MVL-HF1228M-6MP

1/1.8” 12mm 6MP FA LENS

FA series 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 Features

- High resolution and excellent image uniformity
- Low distortion to ensure measurement accuracy
- Maximum image circle of 1/1.8''
- Easy device integration with compact structure

Order Model

MVL-HF1228M-6MP

Specification

Model / Parameter		MVL-HF1228M-6MP Fixed focal length, Manual iris, 6MP, FA Lens		
Focal Length		12mm	Mount	C-Mount
F-Number		F2.8~F16	Flange Back Length	17.526mm
Image Size		Φ9mm(1/1.8’’)	Filter Thread	M27*0.5
Optical Distortion		-0.38%	Minimum Operation Distance	0.1m
Control	Iris	Manual	Dimension	Φ29×35.36mm
	Focus	Manual		
Operating Temperature		-10~50℃	Weight	60g
Angle of View		1/1.8”	D（8.96mm）	41.2°
			H（7.37mm）	34.4°
			V（4.92mm）	23.4°

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Field of View

Working Distance (mm)	Magnification	Extension (mm)	Field of View (mm)			
			1/1.8'' (7.38mm×4.92mm)		1/2'' (6.22mm×4.67mm)	
			H	V	H	V
25	-0.293	2	25.25	16.83	21.29	15.98
50	-0.181	1	41.00	27.32	34.55	25.93
75	-0.131	1	56.56	37.68	47.67	35.76
100	-0.102		72.67	48.40	61.23	45.93
150	-0.071		104.02	69.27	87.65	65.74
200	-0.055		135.38	90.15	114.07	85.55
250	-0.045		166.73	111.03	140.49	105.37
300	-0.037		198.09	131.91	166.91	125.18
350	-0.032		229.44	152.78	193.33	144.99
400	-0.028		260.80	173.66	219.75	164.81
450	-0.025		292.15	194.54	246.17	184.62
500	-0.023		323.51	215.42	272.59	204.43
550	-0.021		354.86	236.30	299.01	224.24
600	-0.019		386.22	257.17	325.43	244.06
650	-0.018		417.57	278.05	351.85	263.87
700	-0.017		448.93	298.93	378.27	283.68
800	-0.015		511.64	340.68	431.11	323.31
900	-0.013		574.35	382.44	483.94	362.93
1000	-0.012		637.06	424.20	536.78	402.56

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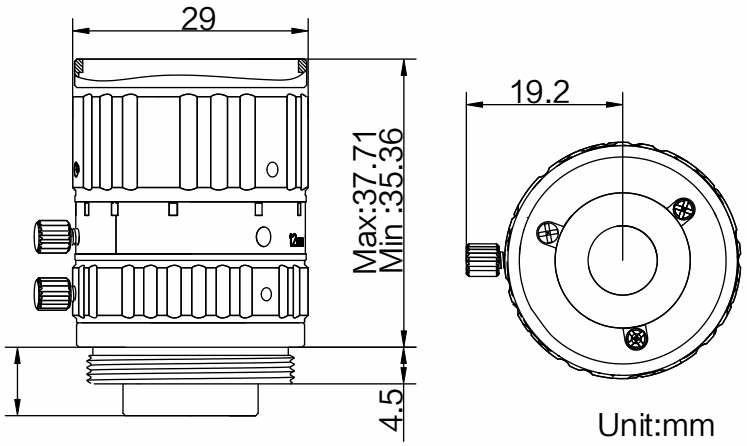
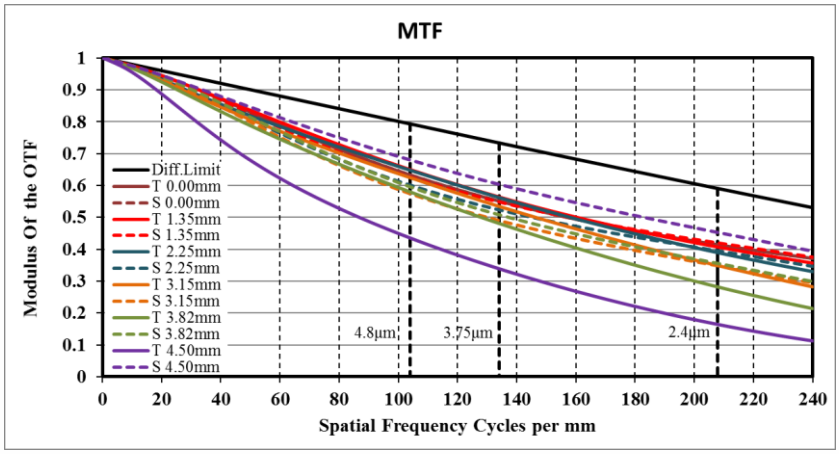
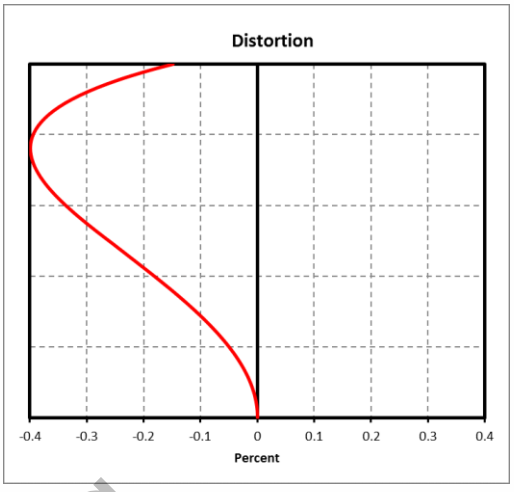
Dimension



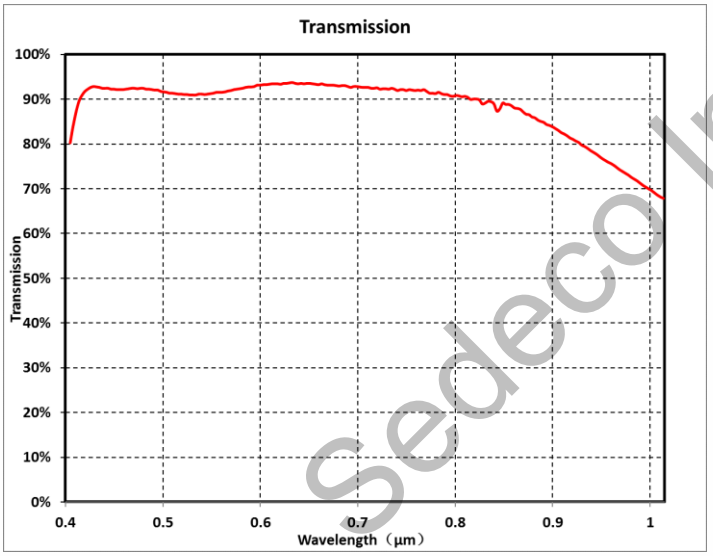
MTF



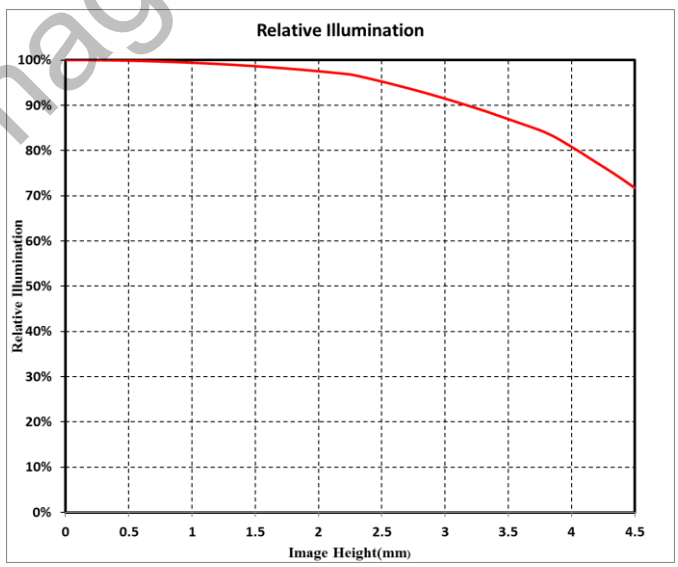
Distortion



Transmission



Relative Illumination



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Note：The above curves are the simulate results based onF2.8, β=-0.028, WD=400 mm.

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