

MVL-HF1628M-6MP

1/1.8" 16mm 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-HF1628M-6MP

Specification

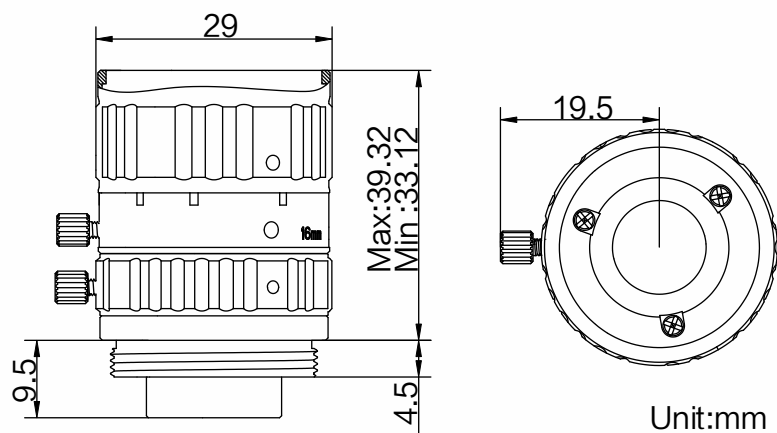
Model		MVL-HF1628M-6MP	
Parameter		Fixed focal length, Manual iris, 6MP, FA Lens	
Focal Length		16mm	C-Mount
F-Number		F2.8~F16	17.526mm
Image Size		Φ9mm(1/1.8")	M27*0.5
Optical Distortion		-0.08%	0.1m
Control	Iris	Manual	Dimension
	Focus	Manual	
Operating Temperature		-10~50°C	Weight
Angle of View		D (8.96mm)	31.0°
		H (7.37mm)	25.7°
		V (4.92mm)	17.5°



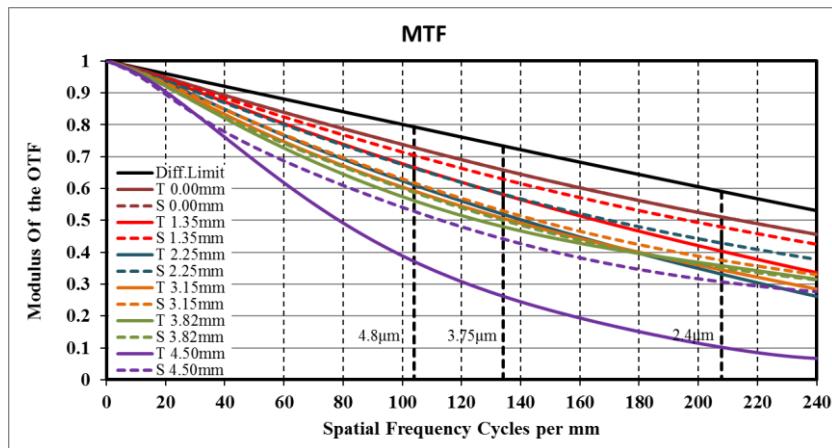
Field of View

Working Distance (mm)	Magnification	Extension (mm)	Field of View (mm)			
			1/1.8"		1/2"	
			(7.38mm×4.92mm)		(6.22mm×4.67mm)	
			H	V	H	V
25	-0.326	4	22.89	15.18	19.24	14.40
50	-0.219	2	33.87	22.50	28.49	21.35
75	-0.165	1	44.87	29.84	37.77	28.32
100	-0.134		55.09	36.66	46.39	34.79
150	-0.094		78.68	52.39	66.28	49.73
200	-0.072		102.26	68.12	86.16	64.66
250	-0.059		125.84	83.85	106.04	79.59
300	-0.050		149.42	99.58	125.92	94.52
350	-0.043		172.99	115.31	145.80	109.45
400	-0.038		196.57	131.04	165.68	124.38
450	-0.034		220.14	146.76	185.56	139.30
500	-0.030		243.71	162.49	205.44	154.23
550	-0.028		267.28	178.22	225.32	169.16
600	-0.025		290.86	193.95	245.19	184.09
650	-0.024		314.43	209.67	265.07	199.02
700	-0.022		338.00	225.40	284.95	213.95
750	-0.020		361.57	241.13	304.83	228.87
800	-0.019		385.14	256.85	324.70	243.80
850	-0.018		408.71	272.58	344.58	258.73
900	-0.017		432.29	288.31	364.46	273.66
950	-0.016		455.86	304.03	384.33	288.59
1000	-0.015		479.43	319.76	404.21	303.52

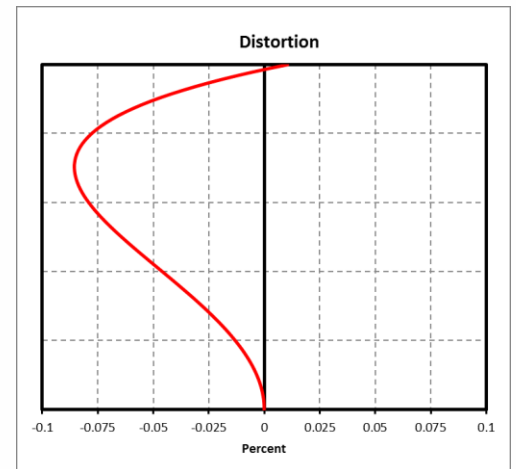
Dimension



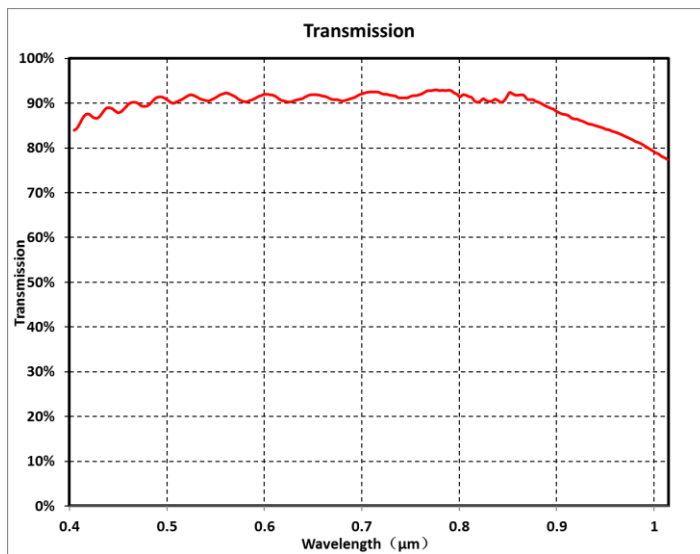
MTF



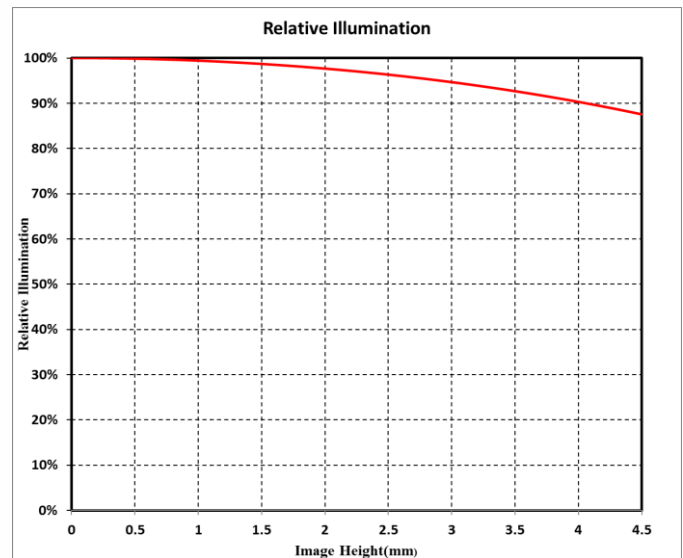
Distortion



Transmission



Relative Illumination



Note: The above curves are the simulate results based on F2.8, $\beta = -0.038$, WD=400 mm.



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