

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

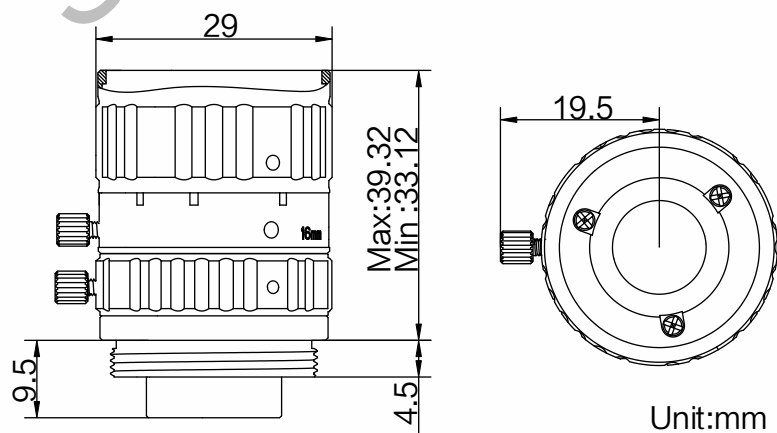
Model		MVL-HF1628M-6MP		
Parameter		Fixed focal length, Manual iris, 6MP, FA Lens		
Focal Length		16mm	Mount	C-Mount
F-Number		F2.8~F16	Flange Back Length	17.526mm
Image Size		Φ9mm(1/1.8")	Filter Thread	M27*0.5
Optical Distortion		-0.08%	Minimum Operation Distance	0.1m
Control	Iris	Manual	Dimension	Φ29 × 33.12mm
	Focus	Manual		
Operating Temperature		-10~50°C	Weight	53g
Angle of View		1/1.8"	D (8.96mm)	31.0°
			H (7.37mm)	25.7°
			V (4.92mm)	17.5°



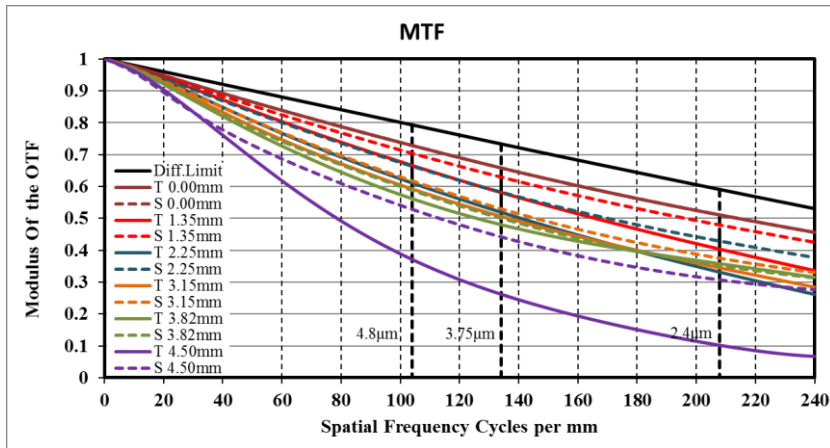
Field of View

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

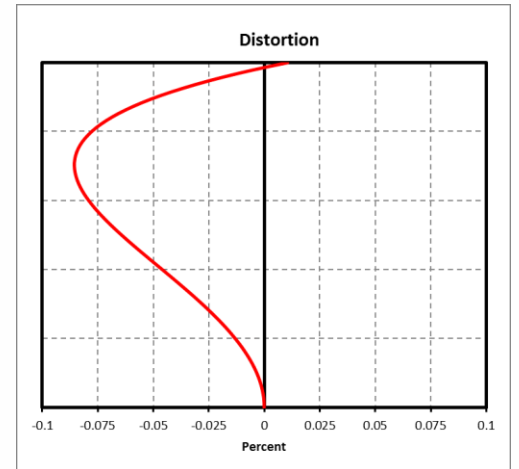
Dimension



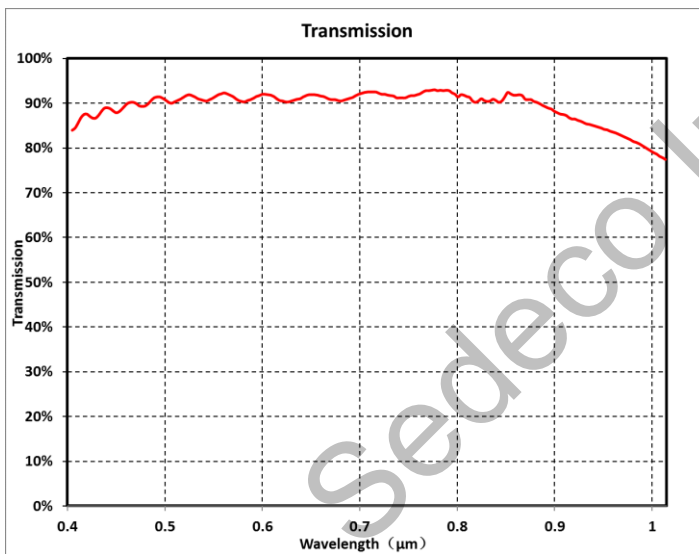
MTF



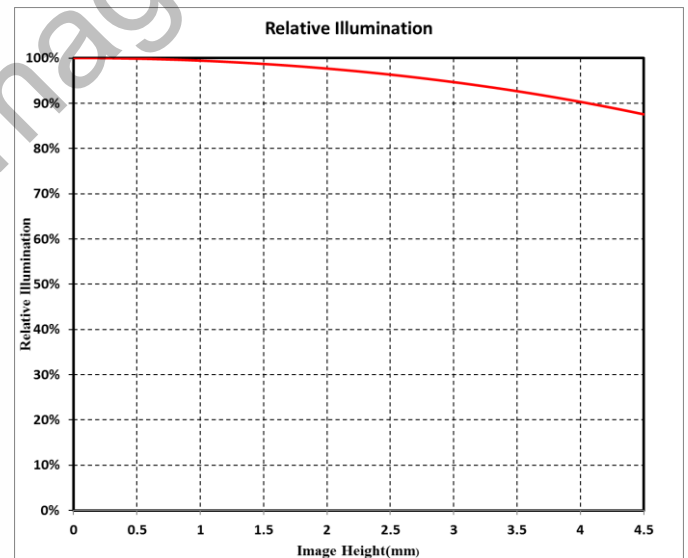
Distortion



Transmission



Relative Illumination



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

HIKROBOT

Hangzhou Hikrobot Technology Co., Ltd.
No.399 Danfeng Road, Binjiang District, Hangzhou 310051, China.
en.hikrobotics.com

SEDECO
IMAGING

Germany, Austria, Switzerland
Sedeco Imaging GmbH
Unterer Dammweg 12
76149 Karlsruhe
Germany
T. +49 721 5604 7980
info@sedeco-imaging.com

BeNeLux
Sedeco Imaging B.V.
Trasmolenlaan 12
3447 GZ Woerden
the Netherlands
T. +31 348 749110
info@sedeco-imaging.nl

www.sedeco-imaging.com

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