

MVL-KF1228M-12MP
1.1" 12mm 12MP 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"
- Easy device integration with compact structure

Order Model

MVL-KF1228M-12MP

Specification

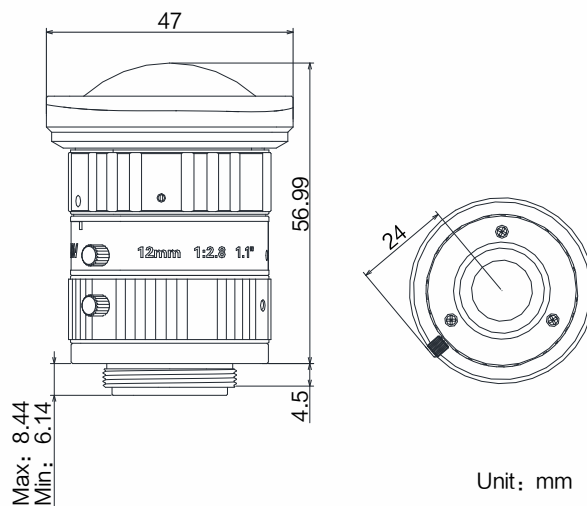
Model		MVL-KF1228M-12MP	
Parameter		Fixed focal length, Manual iris, 12MP, FA Lens	
Focal Length	12mm	Mount	C-Mount
F-Number	F2.8~F16	Flange Back Length	17.526mm
Image Size	Φ17.6mm(1.1")	Filter Thread	/
Optical Distortion	-1.79%	Minimum Operation Distance	0.1m
Control	Iris	Manual	Dimension
	Focus	Manual	
Operating Temperature	-10~50°C	Weight	186g
Angle of View	1.1"	D (17.6mm)	70.5°
		H (14.08mm)	59.8°
		V (10.56mm)	46.2°



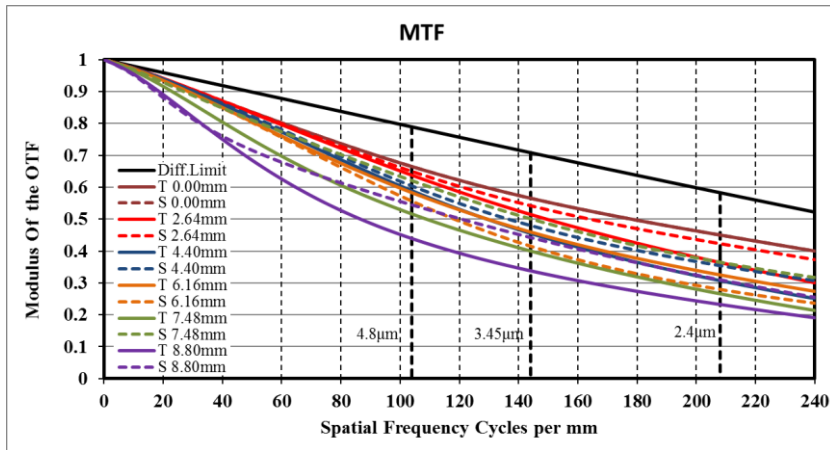
Field of View

Working Distance (mm)	Magnification	Extension (mm)	Field of View (mm)					
			1.1"		1"		2/3"	
			(14.14mm×10.35mm)		(12.45mm×9.83mm)		(8.45mm×7.07mm)	
			H	V	H	V	H	V
25	-0.256	2	58.39	41.75	50.84	39.54	33.76	28.08
50	-0.169	1	87.61	62.98	76.49	59.68	51.02	42.49
75	-0.126	1	116.61	84.19	102.04	79.82	68.31	56.92
100	-0.100		145.95	105.37	127.71	99.90	85.49	71.25
150	-0.071		203.80	147.63	178.63	140.01	119.92	100.00
200	-0.055		261.51	189.80	229.44	180.04	154.27	128.69
250	-0.045		319.15	231.94	280.20	220.04	188.60	157.37
300	-0.038		376.77	274.05	330.93	260.01	222.92	186.03
350	-0.033		434.36	316.16	381.64	299.98	257.22	214.69
400	-0.029		491.94	358.25	432.34	339.94	291.52	243.34
450	-0.026		549.52	400.34	483.04	379.89	325.81	271.99
500	-0.024		607.09	442.43	533.74	419.84	360.11	300.63
550	-0.022		664.65	484.51	584.43	459.79	394.40	329.28
600	-0.020		722.21	526.59	635.11	499.74	428.69	357.92
650	-0.018		779.77	568.67	685.80	539.68	462.97	386.56
700	-0.017		837.33	610.75	736.48	579.63	497.26	415.21
750	-0.016		894.89	652.83	787.16	619.57	531.54	443.85
800	-0.015		952.44	694.90	837.84	659.51	565.83	472.49
850	-0.014		1010.00	736.98	888.52	699.45	600.11	501.13
900	-0.013		1067.55	779.06	939.20	739.39	634.40	529.76
1000	-0.012		1182.57	863.25	1040.56	819.32	703.02	587.09

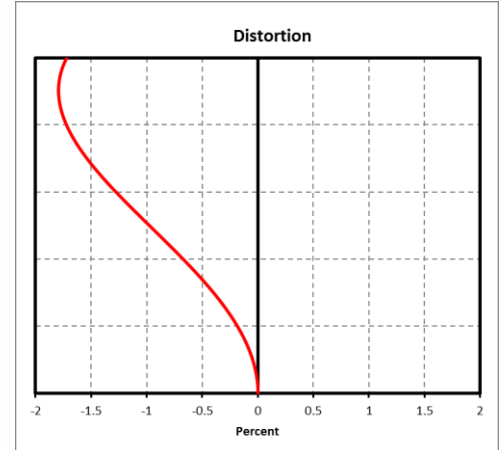
Dimension



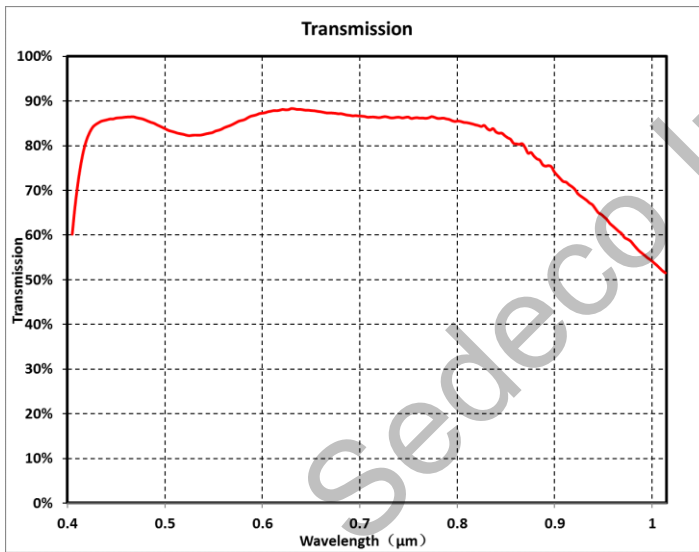
MTF



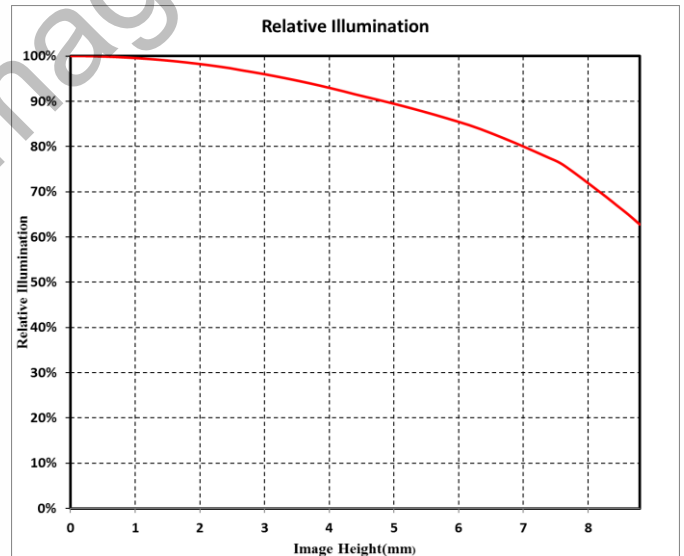
Distortion



Transmission



Relative Illumination



Note: The above curves are the simulate results based on F2.8, $\beta=-0.038$, WD=300 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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