

MVL-AF4028M-M42

APS-C 40 mm Focal Length FA Lens

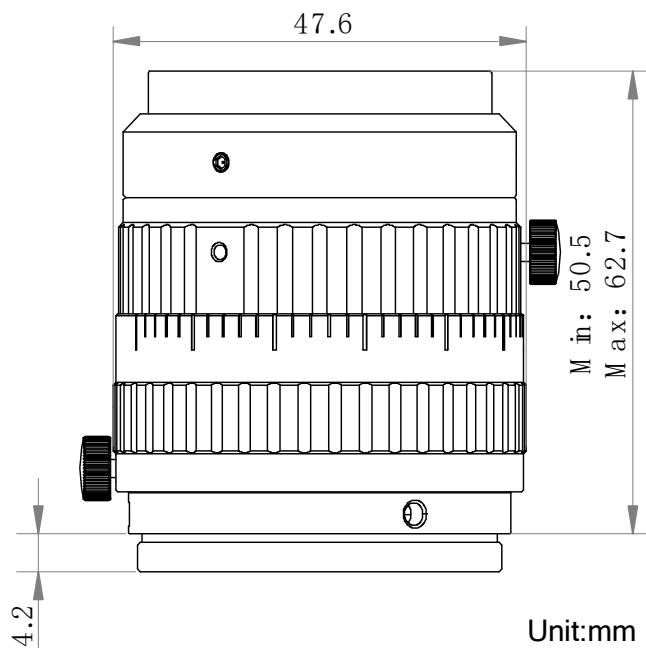
The APS-C fixed-focus lens are optimized for the application of large pixel line scan cameras in the machine vision industry, with excellent imaging quality, high image uniformity and low distortion design, magnification range from 0.04 x to 0.22 x. It is suitable for defect detection applications in PCB, packaging and printing industry.



Key Features

- Provides excellent consistency of image clarity.
- Provides large aperture, low distortion, low chromatic aberration, and high relative illumination.
- Provides max. image size $\Phi 37$ mm for APS-C area scan and 4k line scan cameras.

Dimension



Specification

Parameter	Model	MVL-AF4028M-M42
	Fixed focal length, Manual iris, APS-C lens	
Performance		
Focal length	40 mm	
F-number	F2.8 to F22	
Image size	Φ37 mm	
Optical distortion	0.62%	
Magnification range	0.22 x to 0.04 x	
Working distance range	200 mm to 1051 mm	
Mechanical		
Iris control	Manual	
Focus control	Manual	
Filter thread	M37 × 0.75	
Mount	M42 × P1	
Flange back length	12 mm	
Dimension	Φ47.6 mm × 50.5 mm to 62.7 mm (Φ1.9" × 2.0" to 2.5")	
Weight	171 g (0.4 lb.)	
Temperature	−10 °C to 50 °C (14 °F to 122 °F)	
General		
Certification	RoHS 2.0	

Field of View

Working Distance (mm)	Magnification	Object Image Distance (mm)	Field of View H (4k 7 μm)
200	-0.220	277.8	130.8
250	-0.185	311.8	155.4
300	-0.151	360.4	190.1
350	-0.128	419.5	224.7
400	-0.111	458.8	259.4
450	-0.098	508.3	294.0
500	-0.087	557.8	164.3
550	-0.079	607.5	363.3
600	-0.072	657.2	397.9
650	-0.066	706.8	432.5
700	-0.062	756.8	467.2
750	-0.057	806.6	501.8
800	-0.054	856.4	536.5
850	-0.050	906.3	571.1
900	-0.047	956.2	605.7
950	-0.045	1006.1	640.3
1000	-0.043	1056.0	675.0

HIKROBOT

Hangzhou Hikrobot Co., Ltd.
en.hikrobotics.com

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