

MVL-AF2840M-M42

Ø30 mm 28 mm Focal Length FA Lens

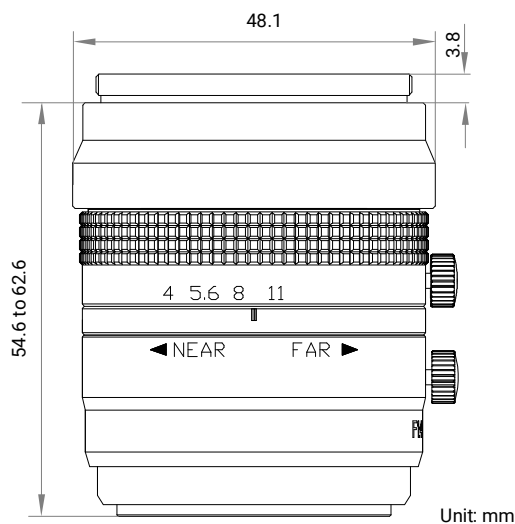
The APS-C fixed-focus lens are optimized for the application of large pixel line scan cameras in the machine vision industry, with excellent imaging quality, high image uniformity and low distortion design, magnification range from 0.05x to 0.3x. It is suitable for defect detection applications in PCB, packaging and printing industry.



Key Features

- Provides excellent consistency of image clarity.
- Provides low distortion.
- Provides max. image size Ø30 mm for APS-C area scan and 4k 7 µm line scan cameras.

Dimension



Specification

Parameter	Model	MVL-AF2840M-M42
	Fixed focal length, Manual iris, APS-C lens	
Performance		
Focal length	28 mm	
F-number	F4.0 to F11	
Image size	Ø30 mm	
Optical distortion	0.1%	
Magnification range	0.3x to 0.05x	
Working distance range	103 mm to 595 mm	
Mechanical		
Iris control	Manual	
Focus control	Manual	
Filter thread	M35 × 0.5	
Mount	M42 × P1	
Flange back length	12 mm	
Dimension	Ø48.1 mm × 54.6 to 62.6 mm (Ø1.9" × 2.2" to 2.5")	
Weight	162 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)
103	-0.300	177	97.0
150	-0.208	218	144.9
200	-0.154	267	195.9
250	-0.122	316	246.8
300	-0.101	365	297.8
350	-0.086	415	348.7
400	-0.075	464	399.7
450	-0.067	514	450.6
500	-0.060	564	501.5
550	-0.054	614	552.5
595	-0.050	662	598.1

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