

MVL-AF2045M-M42

APS-C 20 mm Focal Length FA Lens

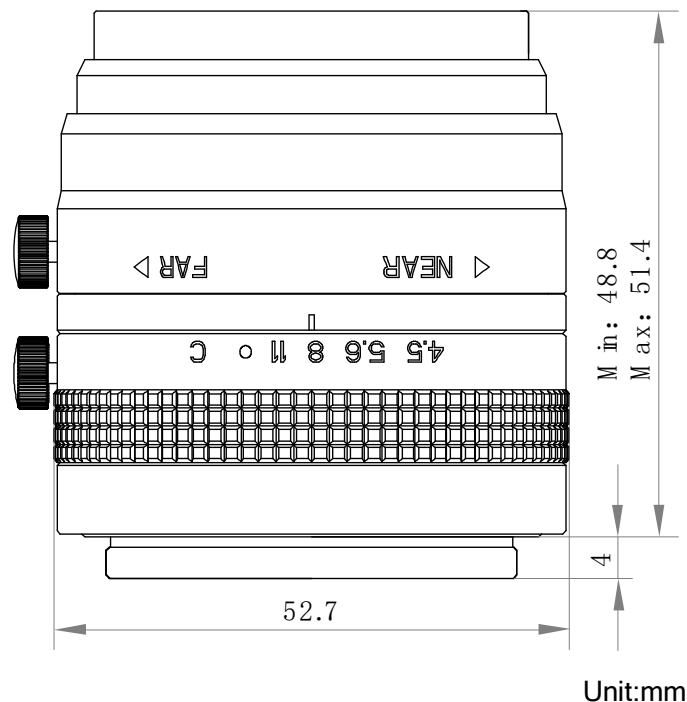
The APS-C fixed-focus lens are optimized for the application of large pixel line scan cameras in the machine vision industry, with excellent imaging quality, high image uniformity and low distortion design, magnification range from 0.02 x to 0.1 x. It is suitable for defect detection applications in PCB, packaging and printing industry.



Key Features

- Provides excellent consistency of image clarity.
- Provides low distortion.
- Provides max. image size $\Phi 30$ mm for APS-C area scan and 4k 7 μ m line scan cameras.

Dimension



Specification

Parameter	Model	MVL-AF2045M-M42
	Fixed focal length, Manual iris, APS-C lens	
Performance		
Focal length	20 mm	
F-number	F4.5 to C	
Image size	Φ30 mm	
Optical distortion	0.20%	
Magnification range	0.02 x to 0.134 x	
Working distance range	150 mm to 999 mm	
Mechanical		
Iris control	Manual	
Focus control	Manual	
Filter thread	M43 × 0.75	
Mount	M42 × P1	
Flange back length	12 mm	
Dimension	Φ52.7 mm × 48.8 mm to 51.4 mm (Φ2.1" × 1.9" to 2.0")	
Weight	243 g (0.5 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)
150	-0.134	212	216.1
200	-0.100	261	288.5
250	-0.080	311	360.8
300	-0.067	360	433.2
350	-0.057	410	505.6
400	-0.050	460	577.9
450	-0.045	510	650.3
500	-0.040	560	722.7
550	-0.036	610	795.1
600	-0.033	660	867.4
650	-0.031	710	939.8
700	-0.029	760	1012.2
750	-0.027	810	1084.5
800	-0.025	860	1156.9
850	-0.024	910	1229.3
900	-0.022	960	1301.6
950	-0.021	1010	1374.0
999	-0.020	1060	1446.4

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