

MVL-AF3528M-M42

Large Format $\Phi 42$ mm 35 mm Focal Length FA Lens

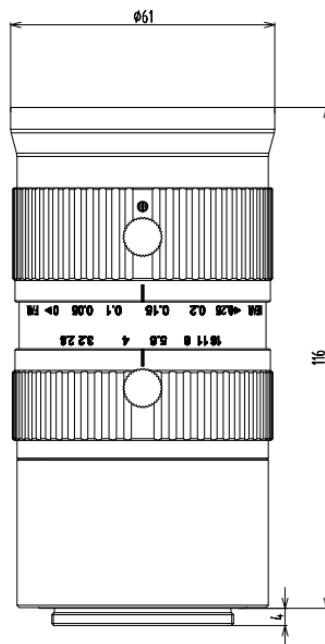
The large format fixed-focus lens are optimized for the application of large pixel line scan cameras in the machine vision industry, with excellent imaging quality, high image uniformity and low distortion design, magnification range from 0.001 x to 0.2 x. It is suitable for defect detection applications in PCB, packaging and printing industry.



Key Features

- Provides excellent consistency of image clarity.
- Provides large aperture, low distortion, low chromatic aberration, and high corner illuminance.
- Provides max. image size $\Phi 42$ mm for large format area scan and 4k $7 \mu\text{m}$ line scan cameras.

Dimension



Unit: mm

Specification

Model	MVL-AF3528M-M42
Parameter	Fixed focal length, Manual iris, Large format lens
Performance	
Focal length	35 mm
F-number	F2.8 to F16
Image size	Φ42 mm
Optical distortion	0.40%
Magnification range	0.2 x to 0.001 x
Working distance range	163 mm to inf mm
Mechanical	
Iris control	Manual
Focus control	Manual
Filter thread	M58 × 0.75
Mount	M42 × P1
Flange back length	12 mm
Dimension	Φ61 mm × 116 mm (Φ2.4" × 4.6")
Weight	622 g (1.4 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)
163	-0.200	290	144.0
200	-0.171	322	168.8
250	-0.139	371	207.3
300	-0.117	421	245.6
350	-0.101	470	283.9
400	-0.089	520	322.2
450	-0.080	569	360.4
500	-0.072	619	398.6
550	-0.066	669	436.8
600	-0.060	719	475.0
650	-0.056	769	513.1
700	-0.052	819	551.3
750	-0.049	868	589.4
800	-0.046	918	627.6
850	-0.043	968	665.7
900	-0.041	1018	703.9
950	-0.039	1068	742.0
1000	-0.037	1118	780.2

HIKROBOT

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