



## Specification

Model	MVL-AF1828M-M42B
Parameter	Fixed Focal Length, Manual Iris, APS-C Lens
<b>Performance</b>	
Focal length	18 mm
F-number	F2.8 to F22
Image size	Φ30 mm
Optical distortion	-1.1%
Magnification range	0.012 x to 0.105 x
Working distance range	150 mm to 1500 mm
<b>Mechanical</b>	
Iris control	Manual
Focus control	Manual
Filter thread	M72 × P0.75
Mount	M42 × P1
Flange back length	12 mm
Dimension	Φ74 mm × 92.16 mm (Φ2.9" × 3.6")
Weight	438.5 g (1.0 lb.)
Temperature	-10 °C to 50 °C (14 °F to 122 °F)
<b>General</b>	
Certification	RoHS 2.0

## Field of View

Working Distance (mm)	Magnification	Object Image Distance (mm)	Field of View H (4k 7 μm)
150	-0.105	255	276.9
200	-0.081	305	355.4
250	-0.066	354	433.8
300	-0.056	404	512.2
350	-0.048	454	590.5
400	-0.043	504	668.9
450	-0.038	554	747.2
500	-0.034	604	825.5
550	-0.031	653	903.9
600	-0.029	703	982.2
650	-0.027	753	1060.5
700	-0.025	803	1138.8
750	-0.023	853	1217.1
800	-0.022	903	1295.4
850	-0.021	953	1373.8
900	-0.020	1003	1452.1
950	-0.019	1053	1530.4
1000	-0.018	1103	1608.7
1100	-0.016	1203	1765.3
1200	-0.015	1303	1921.9
1300	-0.014	1403	2078.5
1400	-0.013	1503	2235.1
1500	-0.012	1603	2391.7

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