

A-Series Optical Specifications

LMV1000(E) – wavelength ($\lambda = 1064\text{nm}$)

LMV1000(E) Lens Marking Area (<i>f</i>75 ~ <i>f</i>160)				
<i>f</i>θ Lens Unit	<i>f</i> = 75mm	<i>f</i> = 100mm	<i>f</i> = 150mm	<i>f</i> = 160mm
Scanning Method	Galvanometer Scanner			
λ (wavelength)	1064nm			
Marking Area	1.54 in. ϕ (39mm dia.)	3.15 in. ϕ (80mm dia.)	4.72 in. ϕ (120mm dia.)	3.94 in. \times 3.94 in. (100mm \times 100mm)
Working Distance (Approx.)	3.66 in. (93mm)	4.33 in. (110mm)	6.69 in. (170mm)	6.89 in. (175mm)
Position Resolution	0.00004” (1 μ m)	0.00008” (2 μ m)	0.00008” (2 μ m)	0.00008” (2 μ m)

LMV1000(E) Lens Marking Area (<i>f</i>254 ~ <i>f</i>420)				
<i>f</i>θ Lens Unit	<i>f</i> = 254mm	<i>f</i> = 270mm	<i>f</i> = 300mm	<i>f</i> = 420mm
Scanning Method	Galvanometer Scanner			
λ (wavelength)	1064nm			
Marking Area	5.91 in. \times 5.91 in. (150mm \times 150mm)	8.50 in. ϕ (216mm dia.)	8.27 in. \times 8.27 in. (210mm \times 210mm)	11.57 in. \times 11.57 in. (294mm \times 294mm)
Working Distance (Approx.)	11.77 in. (299mm)	12.32 in. (313mm)	14.09 in. (358mm)	19.45 in. (494mm)
Position Resolution	0.00012” (3 μ m)	0.00016” (4 μ m)	0.00016” (4 μ m)	0.00024” (6 μ m)

LMV1000G(E) – SHG (Second Harmonic Green) – wavelength ($\lambda = 532\text{nm}$)

LMV1000G(E) Lens Marking Area (<i>f</i>100 ~ <i>f</i>300)				
<i>f</i>θ Lens Unit	<i>f</i> = 100mm	<i>f</i> = 160mm	<i>f</i> = 254mm	<i>f</i> = 300mm
Scanning Method	Galvanometer Scanner			
λ (wavelength)	532nm			
Marking Area	3.15 ϕ (80mm dia.)	3.94 in. \times 3.94 in. (100mm \times 100mm)	5.91 in. \times 5.91 in. (150mm \times 150mm)	6.89 in. \times 6.89 in. (175mm \times 175mm)
Working Distance (Approx.)	4.33 in. (110mm)	6.89 in. (175mm)	10.91 in. (277mm)	12.87 in. (327mm)
Position Resolution	0.00008” (2 μ m)	0.00008” (2 μ m)	0.00012” (3 μ m)	0.00016” (4 μ m)