Zoom Lens Point Laser Focusing Solution

High Magnification-High Accuracy-High Efficiency

Large field of view flyswatters customized for high-speed, high-precision microscopy automation

Zoom Lens Point Laser Focusing Solution — Products

- high precision and fast focusing process can be realized both for static and dynamic targets;
- the continuous zoom performance of the zoom lens makes this program adaptable to different working distances and magnification requirements;
- strong stability, using mature optical and mechanical structure design, with good stability and reliability.

Zoom Lens Point Laser Focusing Solution — Objective Lens Parameters

Objective lens magnification/NA	Linear Range (μm)
5×/0.14	±500
10×/0.28	±100
20×/0.42	±30
50×/0.55	±20

Zoom Lens Point Laser Focusing Solution — Motion Control

Z-axis features	Miniaturized X High Rigidity Magnetic Floating Linear Ball Guide+Stepping Motor+Limit Sensor (Optional Piezo Drive)
Optional Z-axis travel	±10mm/±15mm
Repeat Positioning Accuracy	0.5um (optional piezo drive for nanometer positioning)
Response speed	20mm/sec、30mm/sec

Zoom Lens Point Laser Focusing Solution — Objective Lens Selection

Number	Magnification	Numerical Aperture	Working distance (mm)	Focal length (mm)	DOF(μm)	Resolution (μm)	Supports Maximum Field Of View
PM02	2×	0.055	34.6	100	91	5	40
PM05	5×	0.14	45	40	14	2	40
PM010	10×	0.28	34	20	3.5	1	40
PM020	20×	0.29	30.8	10	2.6	1	40

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