

450nm Single Wavelength Zoom Laser

Collimating Lens 50x



● Product Description

When the zoom magnification requirement varies significantly, the design uses a curved groove form, with multiple lenses linked together to achieve continuous changes while maintaining beam quality. By using different fiber inputs, good zoom effects can be achieved. The output beam is uniform with clear boundaries. This design is mainly applied in laser dazzling and optical tracking systems.

● Product features

Standard fiber optic interface input, collimated spatial beam output、

Three main wavelength options: 525nm, 450nm, 638nm、 Achieves diffraction-limited performance when used with compatible connectors、

Metal oxide housing、 Reserved motor installation interface for automatic focusing

● Part Number

MP-NIR-CLM-W450-50-1000-62.5/125-FP

● Application area

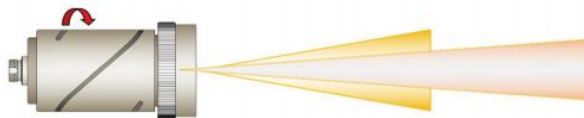
Free space optical communication | Lidar | Natural gas detection | Remote sensing | Aerospace

● Core parameters

Wavelength	Zoom Magnification	Input Fiber
450nm	50x	62.5/125

● General Parameters

Diagram



Parameter

Single-Wavelength Zoom Laser Collimating Lens							
Zoom Magnification	Usable Working Distance	Divergence Angle Range	Max Power	Input Fiber	Size	Connector Type	Transmission Rate
20x	30-600m	0.05~1.0°	30w	62.5/125	Φ50×150mm	FC/PC	85%
50x	20~1000m	0.05~2.5°	50w	200/220 400/440	Φ50×220mm		
Three-Wavelength Zoom Laser Collimating Lens							
Zoom Magnification	Usable Working Distance	Divergence Angle Range	Max Power	Input Fiber MFD	Size	Connector Type	Transmission Rate
50x	20-1000m	0.05~2.5°	20w	10.4um	Φ55×260mm	FC/PC	80%