

Five-dimensional fiber collimating coupling mirror



● Product Description

The built-in lens has five degrees of alignment freedom when the connector and fiber remain stationary: linear alignment in the X and Y directions, pitch and deflection angle alignment, and simultaneous adjustment of the Z-axis using pitch and deflection. The travel range in the X and Y directions is +0.7mm, the travel range in the Z direction is >2mm, and the pitch and deflection adjustment range is +4 °. This coupling mirror has excellent structural stability and high coupling efficiency. When switching the light source wavelength, fine adjustment of the coupling mirror is required to achieve higher coupling efficiency



● Product features

The lens is coated with broadband anti-reflection films on both sides, 405nm/650nm/780nm/1064nm/1310nm/1550nm optional. The effective focal lengths are available in 7.5mm, 10mm, and 11mm options. Various optical standard connectors are available, including FC/PC, FC/APC, and SMA

● Part Number

MP-NIR-CLM-W600/1050-10-2.16-FA

● Application area

Frontier Scientific Research | Optical Communication and Sensing | Laser Processing and Manufacturing | Industrial Automation Production

● Core parameters

Wavelength	Focal Length	Beam Waist Diameter
600-1050nm	10mm	2.16mm

● General Parameters

Technical Parameters

Assembly Chromatic Aberration Correction Lens						
Operating	Focal	Fiber	Beam	Divergence	Numerical	Coating



Wavelength	Length	MFD	Waist Diameter	Angle	Aperture	
350 - 700 nm	7.50 mm	3.5um	1.23 mm	0.47mrad	0.30	350-700 nm
600 - 1050 nm	7.50 mm	5.0um	1.62 mm	0.67mrad	0.30	600-1050 nm
1050 - 1620 nm	7.50 mm	10.4u	1.42 mm	1.39mrad	0.30	1050-1620 nm
350 - 700nm	10.0 mm	3.5um	1.64 mm	0.35mrad	0.23	350-700 nm
600 - 1050 nm	10.0 mm	5.0um	2.16mm	0.50mrad	0.23	600-1050 nm
1050 - 1620 nm	10.0 mm	10.4um	1.99 mm	0.99mrad	0.23	1050-1620 nm
Assembled Aspherical Lens						
Operating Wavelength	Focal Length	Fiber MFD	Beam Waist Diameter	Divergence Angle	Numerical Aperture	Coating
350 - 700 nm	7.50 mm	3.5um	1.23 mm	0.47 mrad	0.30	350-700 nm



600 - 1050 nm	7.50 mm	5.0um	1.62 mm	0.67 mrad	0.30	600 - 1050 nm
1050 - 1620 nm	7.50 mm	10.4um	1.42 mm	1.39 mrad	0.30	1050 - 1620 nm
350 - 700 nm	11.0 mm	3.5um	1.80mm	0.32 mrad	0.20	350 - 700 nm
600 - 1050 nm	11.0 mm	5.0um	2.38mm	0.46 mrad	0.20	600 - 1050 nm
1050 - 1620 nm	11.0 mm	10.4um	2.09mm	0.95 mrad	0.20	1050 - 1620 nm