

五维光纤准直/耦合镜
FiberPort Coupler/Collimators

在接头和光纤保持不动时，内置的透镜具有五个对准自由度：X和Y方向的线性对准、俯仰和偏转角度对准、同时使用俯仰和偏转调节Z轴。其X和Y方向的行程范围为±0.7mm，Z方向行程范围为>2mm，俯仰偏摆调节范围±4°。该款耦合镜具有很好的结构稳定性和较高的耦合效率，如果更换光源波长，使用时还需对耦合镜进行微调，以获得更高的耦合效率。

When the connector and the fiber remain stationary, the internal lens has five alignment degrees of freedom: linear alignment in the X and Y directions, pitch and yaw alignment angles, and adjustment of the Z-axis using both pitch and yaw. The travel range in the X and Y directions is ±0.7 mm, the travel range in the Z direction is greater than 2 mm, and the pitch and yaw adjustment range is ±4°. It has good structural stability and high coupling efficiency. If the wavelength of the light source is changed, the collimator needs to be re-adjusted to achieve higher coupling efficiency.



特征 Features:

- 接入光纤准直出射或将自由空间准直光耦合进光纤

Connecting fiber collimated output or coupling free space collimated light into fiber.

- 五个自由度加旋转调节

Five Degrees of Freedom Plus Rotational Adjustment

- 可选择装配非球面透镜和消色差透镜

Optional combination of an aspherical lens and an achromatic lens

- 接头类型可选Three Connector Options: FC/PC、FC/APC、SMA905

- 透镜镀三种增透膜可选 Three AR-Coated Lens Options、

400-700nm、650-1050nm、1050-1650nm

- 与远讯的标准跳线配合使用可提高耦合效率和良好的重复性

When used in combination with Ysenser's standard jumpers, it can improve coupling efficiency and ensure good repeatability.

参数表 Parameter

装配消色差透镜 Assemble Achromatic Lenses

Wavelength	EFL	Fiber MFD	Waist Beam	Divergence Angle	NA (Lens)	AR Coating	Transmittance
350 - 700 nm	7.50 mm	3.5um	1.23 mm	0.47mrad	0.3	R<0.5%@350 - 700 nm	>95%
600 - 1050 nm	7.50 mm	5.0um	1.62 mm	0.67mrad	0.3	R<0.5%@600 - 1050 nm	
1050 - 1650 nm	7.50 mm	10.4um	1.42 mm	1.39mrad	0.3	R<0.5%@1050 - 1650 nm	
350 - 700 nm	10.0 mm	3.5um	1.64 mm	0.35mrad	0.23	R<0.5%@350 - 700 nm	
600 - 1050 nm	10.0 mm	5.0um	2.16 mm	0.50mrad	0.23	R<0.5%@600 - 1050 nm	
1050 - 1650 nm	10.0 mm	10.4um	1.99 mm	0.99mrad	0.23	R<0.5%@1050 - 1650 nm	

装配非球面透镜 Assemble Aspheric Lenses

Wavelength	EFL	Fiber MFD	Waist Beam	Divergence Angle	NA (Lens)	AR Coating	Transmittance
350 - 700 nm	4.60 mm	3.5um	0.75mm	0.77 mrad	0.5	R<0.5%@350 - 700 nm	>95%
600 - 1050 nm	4.60 mm	5.0um	1.00 mm	1.09 mrad	0.5	R<0.5%@600 - 1050 nm	
1050 - 1650 nm	4.60 mm	10.4um	0.87 mm	2.27 mrad	0.5	R<0.5%@1050 - 1650 nm	
350 - 700 nm	7.50 mm	3.5um	1.23 mm	0.47 mrad	0.3	R<0.5%@350 - 700 nm	
600 - 1050 nm	7.50 mm	5.0um	1.62 mm	0.67 mrad	0.3	R<0.5%@600 - 1050 nm	
1050 - 1650 nm	7.50 mm	10.4um	1.42 mm	1.39 mrad	0.3	R<0.5%@1050 - 1650 nm	
350 - 700 nm	11.0 mm	3.5um	1.80 mm	0.32 mrad	0.2	R<0.5%@350 - 700 nm	
600 - 1050 nm	11.0 mm	5.0um	2.38 mm	0.46 mrad	0.2	R<0.5%@600 - 1050 nm	
1050 - 1650 nm	11.0 mm	10.4um	2.09 mm	0.95 mrad	0.2	R<0.5%@1050 - 1650 nm	

*所有光斑、发散角的测试数据均由远讯标准跳线接入测试

All testing data for beam size and divergence angle are obtained by connecting the standard jumpers from Ysenser.

*也适用于相应波长的保偏单模光纤接入

Also applicable for polarization maintaining fiber with corresponding wavelength.

*束腰光斑直径：取高斯光束1/e²处，选用各波长单模光纤理论计算值。

Waist beam diameter: Take the Gaussian beam at 1/e² and use the theoretical calculated values for each wavelength using single-mode fibers.

*理论计算匹配的波长和光纤Theoretical Calculation of Wavelength - Fiber Matching、450 nm-460HP、850 nm-780HP、1550 -SMF-28e.