



生命科学 产品手册

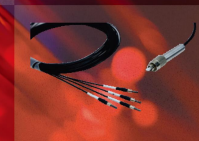
PRODUCT MANUAL

2024版



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企业简介 COMPANY PROFILE

西安远讯光电科技有限公司成立于2013年,是一家专业致力于光纤传感,拥有自主知识产权的高新技术企业。

远讯光电致力成为光纤传感产业链中光纤敏感探头、光纤组件、光电模组的核心供应商,为智能工业设备、生命科学仪器、精密测量分析仪器领域客户提供高品质产品、优质的服务及专业的技术支持。

远讯光电凭借数十年在光纤光学系统设计、优化、实施积累的丰富经验,公司持续研发投入,专注深耕产品质量、关注产品应用环境中的可靠性,为远讯产品带来了广泛的应用场景。

Ysenser was established in 2013 and is a high-tech enterprise specializing in fiber optic sensing with independent intellectual property rights.

Ysenser is committed to growing into the core supplier of fiber optic sensing probes, fiber optic components, and optoelectronic modules in the fiber optic sensing industry. We provide high-quality products, services and professional technical support to customers in the fields of intelligent industrial equipment, life sciences, precision measurement and analysis instruments.

With decades of accumulated experience in the design, optimization, and manufacture of fiber optic systems, we continues to invest in research and development, focusing on product quality and paying attention to reliability in application environments. We are also actively looking for more application for Ysenser products.

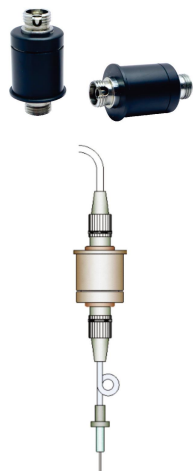
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光纤滑环 FIBER OPTIC ROTARY JOINTS

主要应用于神经环路光遗传学、动物行为学研究设备中，使清醒动物在自由活动过程避免线路缠绕，同时极大程度的减少旋转过程中的光能量波动。

It is mainly used in neural circuit optogenetics and ethology research equipment, so that awake animals can avoid line entanglement during free movement, and greatly reduce the fluctuation of light energy during rotation.



FOJ-MS-200-400~700-FC/PC

Wavelength	473nm~670nm
Fiber Type	NA 0.22, 0.37
Fiber Core Diameter	105/125, 200/220, 200/230
Transmittance	>75% (LD light source)
Rotational Loss	≤5%
Max. Rotational Speed	200rpm
Rotation Smoothness	≥40s @5N
Connector	FC/PC
Noise	≤65 dB
Material	SUS 304
Package Size	-
Weight	-
Operating temperature	0~45℃

单芯光纤跳线 MONO FIBER-OPTIC PATCH CORDS

单芯光纤跳线选择低色散的可见光优化光纤，两端标准FC/PC接头，光纤护套选用黑色低烟无卤材质，既轻便又起到很好的保护作用，适用于LD和LED光源。

The single-core optical fiber cords selects a visible light optimized optical fiber with low dispersion, standard FC/PC connectors at both ends, and LSZH cables, which is both lightweight and well protected. They are suitable for LD and LED light sources.



Specification	Description	Wavelength	Core	N.A.	Connector
YXOP-200-2.0-FC/PC	FC-FC/200/L2.0M	400~700nm	200um	0.37	FC/PC
YXOP-400-2.0-FC/PC	FC-FC/400/L2.0M	400~700nm	400um	0.37	FC/PC
YXOP-600-2.0-FC/PC	FC-FC/600/L2.0M	400~700nm	600um	0.37	FC/PC
YXOP-200M-2.0-FC/PC	FC-FC/200/L2.0M	400~700nm	200um	0.39	FC/PC
YXOP-200R-2.0-FC/PC	FC-FC/200/L2.0M	400~700nm	200um	0.5	FC/PC
YXOP-400R-2.0-FC/PC	FC-FC/400/L2.0M	400~700nm	400um	0.5	FC/PC
YXOP-200S-2.0-FC/PC	FC-FC/200/L2.0M	400~700nm	200um	0.22	FC/PC
YXOP-400S-2.0-FC/PC	FC-FC/400/L2.0M	400~700nm	400um	0.22	FC/PC

单侧刺激光纤跳线 UNILATERAL FIBER-OPTIC PATCH CORDS

单侧刺激光纤跳线选择可见光优化光纤，一端为FC/PC接头，另一端为 $\phi 2.5\text{mm}$ 或 $\phi 1.25\text{mm}$ 陶瓷，可通过陶瓷套管连接生物插针对实验动物进行光照刺激，适用于LD和LED光源。

Select visible light optimized fiber with one end being an FC/PC connector and the other end being $\phi 2.5\text{mm}$ or $\phi 1.25\text{mm}$ ceramic, which can be connected to a fiber probe through a sleeve for laser stimulation on experimental animals. The sleeve is made of black LSZH material, which is lightweight and provides protection well. It is suitable for LD and LED light sources.



护套类型对比 (Comparison Table: Protective Jacket)

Code	Description	Color	OD(mm)	Light (g/m)	Flexibility	Protection
09	PVC Loose Tube	Black/White	0.9	0.5	Low	Low
09M	Stainless Tube		0.9	3	Good	Good
20	PVC Loose Tube	Black	2.0	1.3	Low	Low
29M	Stainless Tube		2.9	10	Excellent	Excellent
30	Stainless with Kevlar	Blue	3.0	12	Excellent	Excellent

单侧刺激光纤跳线 UNILATERAL FIBER-OPTIC PATCH CORDS

Specification	Description	Wavelength	Core	N.A.	Connector
YXOP-200-2.0-FC/PC1.25	FC-1.25/200/L2.0M	400-700nm	200um	0.37	FC/PC
YXOP-200-2.0-FC/PC2.5	FC-2.5/200/L2.0M	400-700nm	200um	0.37	FC/PC
YXOP-400-2.0-FC/PC1.25	FC-1.25/400/L2.0M	400-700nm	400um	0.37	FC/PC
YXOP-400-2.0-FC/PC2.5	FC-2.5/400/L2.0M	400-700nm	400um	0.37	FC/PC
YXOP-600-2.0-FC/PC1.25	FC-1.25/600/L2.0M	400-700nm	600um	0.37	FC/PC
YXOP-600-2.0-FC/PC2.5	FC-2.5/600/L2.0M	400-700nm	600um	0.37	FC/PC
YXOP-200R-2.0-FC/PC1.25	FC-1.25/200/L2.0M	400-700nm	200um	0.5	FC/PC
YXOP-200R-2.0-FC/PC2.5	FC-2.5/200/L2.0M	400-700nm	200um	0.5	FC/PC
YXOP-400R-2.0-FC/PC1.25	FC-1.25/400/L2.0M	400-700nm	400um	0.5	FC/PC
YXOP-400R-2.0-FC/PC2.5	FC-2.5/400/L2.0M	400-700nm	400um	0.5	FC/PC
YXOP-200S-2.0-FC/PC1.25	FC-1.25/200/L2.0M	400-700nm	200um	0.22	FC/PC
YXOP-200S-2.0-FC/PC2.5	FC-2.5/200/L2.0M	400-700nm	200um	0.22	FC/PC
YXOP-400S-2.0-FC/PC1.25	FC-1.25/400/L2.0M	400-700nm	400um	0.22	FC/PC
YXOP-400S-2.0-FC/PC2.5	FC-2.5/400/L2.0M	400-700nm	400um	0.22	FC/PC
YXOP-600S-2.0-FC/PC1.25	FC-1.25/600/L2.0M	400-700nm	600um	0.22	FC/PC
YXOP-600S-2.0-FC/PC2.5	FC-2.5/600/L2.0M	400-700nm	600um	0.22	FC/PC

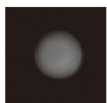
单侧刺激低荧光光纤跳线 LOW-AUTOFLUORESCENCE UNILATERAL FIBER-OPTIC PATCH CORDS

单侧刺激低荧光光纤跳线选择特定材质涂覆层可见光优化光纤，材料及加工过程中增加抑制荧光工艺，在出厂前经过光漂白测试，该过程使跳线中的荧光团饱和，从而最大限度地减少自发荧光的发射，能准确测量指示样本内神经活动的荧光的变化。适用于LD和LED光源。

Low-Autofluorescence unilateral fiber-optic patch cords selects the visible light of a specific material coating. Fluorescence suppression process is added in materials and processing, and Photobleaching test is conducted before delivery. This process saturates the fluorescent in the patch cords, so as to minimize the emission of spontaneous fluorescence, and more accurately measure the changes of fluorescence indicating the neural activity in the sample. It is suitable for LD and LED light sources.



Specification	Description	Wavelength	Core	N.A.	Connector
YXOP-LAF-200-2.0-FC/PC1.25	FC-1.25/LAF200/L2.0M	400-700nm	200um	0.37	FC/PC
YXOP-LAF-200-2.0-FC/PC2.5	FC-2.5/LAF200/L2.0M	400-700nm	200um	0.37	FC/PC
YXOP-LAF-200-2.0-FC/PC1.25B	FC-1.25B/LAF200/L2.0M	400-700nm	200um	0.37	FC/PC



普通跳线



低荧光跳线 (未漂白)



低荧光跳线 (漂白6H)

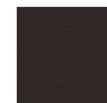
单侧刺激无荧光光纤跳线 NON-AUTOFLUORESCENCE UNILATERAL FIBER-OPTIC PATCH CORDS

单侧刺激无荧光光纤跳线选择石英包层光纤，材料中含有很少的荧光物质。这些荧光物质虽然在特定条件下可以被激发而发出荧光，但荧光强度很低且极易灭失，不影响采集样本内的神经活动的荧光变化，更准确测量指示样本内神经活动的荧光的变化。适用于LD和LED光源。

Non-fluorescent optical fiber patch cords selects quartz-clad optical fibers that contain very few fluorescent substances. Although these fluorescent substances can be excited to emit fluorescence under specific conditions, the fluorescence intensity is very low and easily lost, which does not affect the collection of fluorescent changes in the neural activity within the sample, allowing for more accurate measurement of the fluorescent changes indicating neural activity in the sample. It is suitable for LD and LED light sources.



Specification	Description	Wavelength	Core	N.A.	Connector
YXOP-IMP-200-2.0-FC/PC1.25	FC-1.25/IMP200/L2.0M	400-700nm	200um	0.37	FC/PC
YXOP-IMP-200-2.0-FC/PC2.5	FC-2.5/IMP200/L2.0M	400-700nm	200um	0.37	FC/PC
YXOP-IMP-200-2.0-FC/PC1.25B	FC-1.25B/IMP200/L2.0M	400-700nm	200um	0.37	FC/PC



低荧光跳线 (漂白6H)



低荧光跳线 (未漂白)

多侧刺激光纤分支器 BUNDLE BRANCHING FIBER-OPTIC PATCH CORD

多侧刺激光纤跳线一端有两条或多条光纤束做成的连接器，另一端每条独立的 $\Phi 2.5\text{mm}$ 或 $\Phi 1.25\text{mm}$ 陶瓷，可通过套管连接生物插针对实验动物进行光照刺激，光纤类型、分支数量及接头类型都可以客户指定。200um 芯径光纤还可以选用低荧光或无荧光工艺制作。

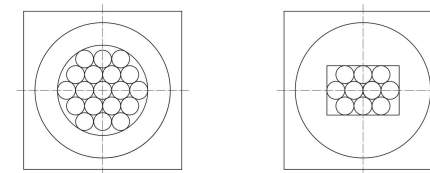


Two or more fiber bundles at one end of a bundle branching fiber-optic patch cord, and each independent at the other end $\Phi 2.5\text{mm}$ or $\Phi 1.25\text{mm}$ ceramic, which can be connected to fiber probe through a sleeve to stimulate experimental animals under laser. We can choose the type of fiber, number of branches, and connector. 200um core diameter optical fibers can also be produced using low-autofluorescence or Non-autofluorescence technology process.

Specification	Description	Wavelength	Core	N.A.	Connector
YXOY-1*2-200-2.0-FC1.25	1 × 2 BFP /200u/L2.0M/1.25/FC	400-700nm	200um	0.37	1.25mm
YXOY-LAF-1*2-200-2.0-FC1.25	1 × 2 BFP /LAF200u/L2.0M/1.25/FC	400-700nm	200um	0.37	1.25mm
YXOY-LAF-1*2-200-2.0-FC1.25B	1 × 2 BFP /LAF200u/L2.0M/1.25/FC	400-700nm	200um	0.37	1.25mm Black
YXOY-1*2-200-2.0-FC2.5	1 × 2 BFP /200u/L2.0M/2.5/FC	400-700nm	200um	0.37	2.5mm
YXOY-LAF-1*2-200-2.0-FC2.5	1 × 2 BFP /200u/L2.0M/2.5/FC	400-700nm	200um	0.37	2.5mm
YXOY-1*2-400-2.0-FC1.25	1 × 2 BFP /400u/L2.0M/1.25/FC	400-700nm	400um	0.37	1.25mm
YXOY-1*2-400-2.0-FC2.5	1 × 2 BFP /400u/L2.0M/2.5/FC	400-700nm	400um	0.37	2.5mm
YXOY-1*4-200-2.0-FC1.25	1 × 4 BFP /200u/L2.0M/1.25/FC	400-700nm	200um	0.37	1.25mm

Specification	Description	Wavelength	Core	N.A.	Connector
YXOY-LAF-1*4-200-2.0-FC1.25	1 × 4 BFP/LAF200u/L2.0M/1.25/FC	400-700nm	200um	0.37	1.25mm
YXOY-LAF-1*4-200-2.0-FC1.25B	1 × 4 BFP/LAF200u/L2.0M/1.25B/FC	400-700nm	200um	0.37	1.25mm Black
YXOY-1*4-200-2.0-FC2.5	1 × 4 BFP /200u/L2.0M/2.5/FC	400-700nm	200um	0.37	2.5mm
YXOY-LAF-1*4-200-2.0-FC2.5	1 × 4 BFP /LAF200u/L2.0M/2.5/FC	400-700nm	200um	0.37	2.5mm
YXOY-1*2-200R-2.0-FC1.25	1 × 2 BFP /200u/L2.0M/1.25/FC	400-700nm	200um	0.5	1.25mm
YXOY-1*2-200R-2.0-FC2.5	1 × 2 BFP /200u/L2.0M/2.5/FC	400-700nm	200um	0.5	2.5mm
YXOY-1*2-400R-2.0-FC1.25	1 × 2 BFP /200u/L2.0M/1.25/FC	400-700nm	200um	0.5	1.25mm
YXOY-1*2-400R-2.0-FC2.5	1 × 2 BFP /200u/L2.0M/2.5/FC	400-700nm	200um	0.5	2.5mm
YXOY-1*4-200R-2.0-FC1.25	1 × 2 BFP /200u/L2.0M/1.25/FC	400-700nm	200um	0.5	1.25mm
YXOY-1*4-200R-2.0-FC2.5	1 × 2 BFP /200u/L2.0M/2.5/FC	400-700nm	200um	0.5	2.5mm
YXOY-IMP-1*2-200-2.0-FC1.25	1 × 2 BFP /IMP200u/L2.0M/1.25/FC	400-700nm	200um	0.37	1.25mm
YXOY-IMP-1*2-200-2.0-FC1.25B	1 × 2 BFP /IMP200u/L2.0M/1.25/FC	400-700nm	200um	0.37	1.25mm Black
YXOY-IMP-1*4-200-2.0-FC1.25	1 × 4 BFP /IMP200u/L2.0M/1.25/FC	400-700nm	200um	0.37	1.25mm
YXOY-IMP-1*4-200-2.0-FC1.25B	1 × 4 BFP /IMP200u/L2.0M/1.25B/FC	400-700nm	200um	0.37	1.25mm Black

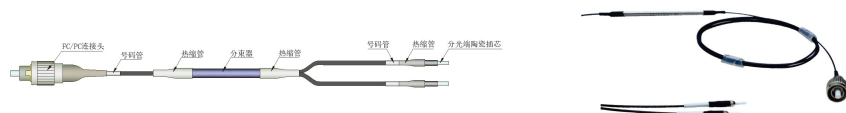
更多纤束和排列方式可咨询029-81882518 sales@ysenser.com



大芯径光纤均分分路器 LARGE CORE FIBER OPTIC SPLITTER

大芯径光纤均分分路器采用光纤熔接拉锥技术，使输入单路光纤的能量实现均分或按比例输出，且有较高的传输效率。

The large core fiber splitter adopts FBT technology to achieve equal or proportional output of the input energy of a single fiber, and get high transmission efficiency.

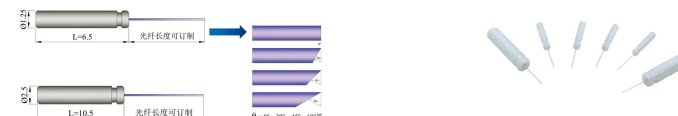


Specification	Description	Wavelength	Core	N.A.	Splitting Ratio	Ferrules	Connector
YXOS-1*2-200-2.0-FC1.25	1 × 2FOC/200u/L2.0M/1.25/FC	400-700nm	200um	0.37	50:50	1.25mm	FC/PC
YXOS-1*2-200-2.0-FC2.5	1 × 2FOC/200u/L2.0M/2.5/FC	400-700nm	200um	0.37	50:50	2.5mm	FC/PC
YXOS-1*2-200S-2.0-FC1.25	1 × 2 FOC /200u/L2.0M/1.25/FC	400-700nm	200um	0.22	50:50	1.25mm	FC/PC
YXOS-1*2-200S-2.0-FC2.5	1 × 2 FOC /200u/L2.0M/2.5/FC	400-700nm	200um	0.22	50:50	2.5mm	FC/PC
YXOS-1*2-400-2.0-FC1.25	1 × 2 FOC /400u/L2.0M/1.25/FC	400-700nm	400um	0.37	50:50	1.25mm	FC/PC
YXOS-1*2-400-2.0-FC2.5	1 × 2 FOC /400u/L2.0M/2.5/FC	400-700nm	400um	0.37	50:50	2.5mm	FC/PC
YXOS-1*2-400S-2.0-FC1.25	1 × 2 FOC /400u/L2.0M/1.25/FC	400-700nm	400um	0.22	50:50	1.25mm	FC/PC
YXOS-1*2-400S-2.0-FC2.5	1 × 2 FOC /400u/L2.0M/2.5/FC	400-700nm	400um	0.22	50:50	2.5mm	FC/PC

光纤插针 FIBER PROBE

光纤插针植入动物脑区，是光路连接的末端部分。光纤双面经过研磨、抛光，通过率可达85%以上，并且光斑形状完整、光束质量高。

The fiber probe is implanted into the animal brain area, which is the end part of the optical path connection. The fiber optic has been ground and polished on both sides, with a transmittance of over 85%, and the shape of the beam spot is complete with high quality.

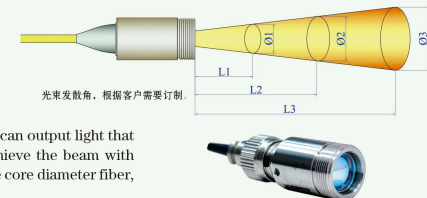


Description	Core	N.A.	Output Fiber Length	Notice
1.25mm LC Ferrules	200u	0.37	1~10mm	-
B1.25mm LC Ferrules	200u	0.37	1~10mm	1.25mm Black
1.25mm LC Ferrules	200u	0.5	1~10mm	-
1.25mm LC Ferrules	400u	0.37	1~10mm	-
1.25mm LC Ferrules	400u	0.5	1~10mm	-
2.5mm LC Ferrules	200u	0.37	1~10mm	-
2.5mm LC Ferrules	200u	0.5	1~10mm	-
2.5mm LC Ferrules	400u	0.37	1~10mm	-
2.5mm LC Ferrules	400u	0.5	1~10mm	-

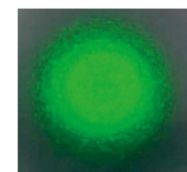
Description	Example
Type D Adapters FC	
FC/PC Connector (Unassembled)	
Ceramic Tube ($\phi 3.2*2.3*11.4$) Ceramic Tube ($\phi 1.6*1.2*6.5$)	
Shading Ceramic Tube($\phi 3.2*2.3*11.4$) Shading Ceramic Tube($\phi 1.6*1.2*6.5$)	
FOJ Holder	

光纤匀化扩束镜 FIBER OPTIC HOMOGENIZATION
BEAM EXPANDING LENS

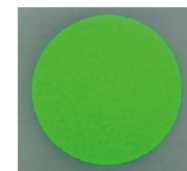
针对不同应用场景，有多种芯径的光纤出射光可以满足指定光斑尺寸与光束发散角，并能够达到良好的光能量均匀分布的特性。适用于多模光纤、200um-600um大芯径光纤，应用领域有激光照明、激光医疗、激光美容。



For different application, fibers with multiple core diameters can output light that obtain the specified beam size and divergence angle. We can achieve the beam with uniform distribution of the energy. Suitable for 200um-600um large core diameter fiber, it applications in laser lighting, laser medicine, and laser beauty.



Laser output spot

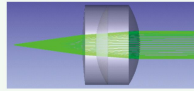


After homogenization

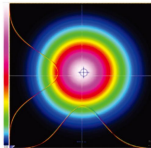
Wave-length	Bandwidth	Divergence Angle	Output Beam	Beam @ 15mm	Beam @ 30mm	Connector	Fiber Type	Transmittance
450nm	$\pm 10\text{nm}$	11.8°	0.48mm	3.5mm	6.5mm	Sma905	200um	>90%
450nm	$\pm 10\text{nm}$	23.5°	0.5mm	6.6mm	12.8mm	Sma905	400um	>90%
450nm	$\pm 10\text{nm}$	35.6°	0.5mm	9.7mm	19.2mm	Sma905	600um	>90%
520nm	$\pm 10\text{nm}$	11.4°	0.48mm	3.4mm	6.4mm	Sma905	200um	>90%
520nm	$\pm 10\text{nm}$	22.8°	0.5mm	6.5mm	12.5mm	Sma905	400um	>90%
520nm	$\pm 10\text{nm}$	34.6°	0.5mm	9.6mm	18.8mm	Sma905	600um	>90%
650nm	$\pm 10\text{nm}$	11.2°	0.48mm	3.3mm	6.2mm	Sma905	200um	>90%
650nm	$\pm 10\text{nm}$	22.5°	0.5mm	6.3mm	12.2mm	Sma905	400um	>90%
650nm	$\pm 10\text{nm}$	33.7°	0.5mm	9.4mm	18.4mm	Sma905	600um	>90%
1310nm	$\pm 10\text{nm}$	10.9°	0.48mm	3.2mm	6.0mm	Sma905	200um	>90%
1310nm	$\pm 10\text{nm}$	21.8°	0.5mm	6.2mm	11.8mm	Sma905	400um	>90%
1310nm	$\pm 10\text{nm}$	32.9°	0.5mm	9.1mm	17.9mm	Sma905	600um	>90%
1550nm	$\pm 10\text{nm}$	10.9°	0.48mm	3.2mm	6.0mm	Sma905	200um	>90%
1550nm	$\pm 10\text{nm}$	21.8°	0.5mm	6.2mm	11.8mm	Sma905	400um	>90%
1550nm	$\pm 10\text{nm}$	32.8°	0.5mm	9.0mm	17.8mm	Sma905	600um	>90%

光纤光束准直器 FIBER COLLIMATOR

由一组长焦准直光学系统构成，它将光纤出射的光束进行整形处理，使光束在一定距离范围内具备良好的准直效果和光斑形状。



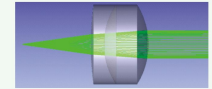
The Collimator consists of a set of telephoto collimating optical systems, it reshapes the beam emitted from the fiber optic to achieve good collimation effect and beam shape within a certain distance range.



Wavelength	Bandwidth	Beam Waist	Divergence Angle	EF	Fiber Type	Diameter	Connector	Transmittance
405nm	± 10nm	0.97mm	0.062°	4.06mm	S405-HP (NA 0.14)	Φ 11mm	FC/PC Sma905	>95%
405nm	± 10nm	2.3mm	0.03°	10.05mm				
405nm	± 10nm	3.7mm	0.021°	15.96mm				
405nm	± 10nm	4.9mm	0.015°	19.95mm				
405nm	± 10nm	4.4mm	0.4°	10.05mm	62.5/125 (NA 0.22)			
405nm	± 10nm	7.1mm	0.27°	15.96mm	200/230 (NA 0.37)			
405nm	± 10nm	7.6mm	1.8°	10.05mm	460HP (NA 0.14)			
525nm	± 10nm	0.92mm	0.059°	4.15mm				
525nm	± 10nm	2.2mm	0.025°	10.09mm				
525nm	± 10nm	3.2mm	0.019°	15.98mm				
525nm	± 10nm	4.3mm	0.014°	19.97mm	62.5/125 (NA 0.22)			
525nm	± 10nm	4.4mm	0.42°	10.09mm				
525nm	± 10nm	7.0mm	0.27°	15.98mm				
525nm	± 10nm	7.5mm	1.5°	10.09mm				
635nm	± 10nm	0.87mm	0.056°	4.2mm	630HP (NA 0.14)			
635nm	± 10nm	2.12mm	0.024°	10.13mm				
635nm	± 10nm	3.12mm	0.019°	16.01mm				
635nm	± 10nm	3.95mm	0.014°	20mm				
635nm	± 10nm	4.4mm	0.43°	10.13mm	62.5/125 (NA 0.22)			
635nm	± 10nm	7.0mm	0.27°	16.01mm	200/230 (NA 0.37)			
635nm	± 10nm	7.5mm	1.5°	10.13mm				

光谱共焦光纤光束准直器 CONFOCAL FIBER COLLIMATOR

由一组长焦消色差光学系统构成，旨在减少不同波长光线的聚焦误差，确保不同波长在同一焦点上汇聚。这一特性为多波长光谱分析提供了可靠的支持，这在生物医学成像和环境监测等领域，能够大幅提升分析的精度。



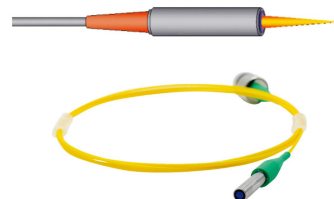
For different application, fibers with multiple core diameters can output light that obtain the specified beam size and divergence angle. We can achieve the beam with uniform distribution of the energy. Suitable for 200um-600um large core diameter fiber, it applications in laser lighting, laser medicine, and laser beauty.

Wavelength	Beam Size@WD0mm	Beam Size@WD50mm	Beam Size@WD100mm	Fiber Type	Connector	Transmittance
450nm	1.23mm ± 0.05mm	1.23mm ± 0.05mm	1.26mm ± 0.05mm	SM 460HP	FC/PC Sma905	>95%
520nm	1.26mm ± 0.05mm	1.30mm ± 0.05mm	1.33mm ± 0.05mm			
638nm	1.26mm ± 0.05mm	1.30mm ± 0.05mm	1.34mm ± 0.05mm			
405nm	2.00mm ± 0.10mm	2.00mm ± 0.10mm	2.20mm ± 0.10mm	105/125 NA00.22		
520nm	1.90mm ± 0.10mm	1.78mm ± 0.10mm	2.00mm ± 0.10mm			
638nm	1.86mm ± 0.10mm	1.83mm ± 0.10mm	2.10mm ± 0.10mm			
405nm	2.40mm ± 0.10mm	2.30mm ± 0.10mm	3.40mm ± 0.10mm	200/220 NA00.22		
520nm	1.58mm ± 0.10mm	2.00mm ± 0.10mm	3.23mm ± 0.10mm			
638nm	2.38mm ± 0.10mm	2.40mm ± 0.10mm	3.40mm ± 0.10mm			
488nm	2.40mm ± 0.10mm	4.60mm ± 0.10mm	—	600/660 NA00.22		
520nm	1.80mm ± 0.10mm	4.70mm ± 0.10mm	—			
638nm	2.38mm ± 0.10mm	4.70mm ± 0.10mm	—			

光纤汇聚器 FIBER OPTIC FOCUSING DEVICE

光纤出光经过汇聚器后，可在指定位置处光束直径达到极小值，有多种波长可以选择，可用于医用OCT、干涉成像等领域。

Through the focusing device, the fiber optic output light can reach a minimum beam diameter at a specified position, with multiple wavelengths to choose from. It can be used in fields such as medical OCT and interferometric imaging.

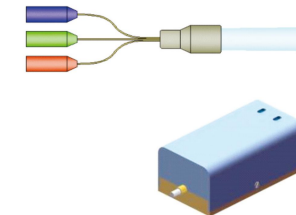


Wavelength	Bandwidth	Spot size at the convergence point	Working Distance	Package Size	Connector	Fiber Type	Transmittance
405nm	± 10nm	6μm	5mm	Φ 3.5 × 10mm	FC/PC	405HP	>90%
405nm	± 10nm	15μm	10mm	Φ 3.5 × 10mm			
405nm	± 10nm	24μm	20mm	Φ 3.5 × 12mm			
525nm	± 10nm	6μm	5mm	Φ 3.5 × 10mm	FC/PC FC/APC SMA905	405HP	>90%
525nm	± 10nm	16μm	10mm	Φ 3.5 × 10mm			
525nm	± 10nm	26μm	20mm	Φ 3.5 × 12mm			
650nm	± 10nm	7μm	5mm	Φ 3.5 × 10mm	FC/PC FC/APC SMA905	630HP	>90%
650nm	± 10nm	18μm	10mm	Φ 3.5 × 10mm			
650nm	± 10nm	29μm	20mm	Φ 3.5 × 12mm			
780nm	± 10nm	9μm	5mm	Φ 3.5 × 10mm	FC/PC FC/APC SMA905	780HP	>90%
780nm	± 10nm	21μm	10mm	Φ 3.5 × 10mm			
780nm	± 10nm	34μm	20mm	Φ 3.5 × 12mm			

多波长合束激光器 MULTI WAVELENGTH COMBINER LASER

提供多种波段激光光源模块，可对2个及以上数量激光光源进行合束并光纤输出，装配远讯自主设计开发的专用镜头，可满足不同波长的光束准直出射并在同一位置获得大小相同的光斑。

It is a multi band laser light source module that combines two or more LD and outputs them through fiber optic output. It is equipped with a dedicated lens independently designed and developed by Ysenser. It can meet beams of different wavelengths that are collimated and obtain the same size beam spot at the same position.



Wavelength		nm	405	450	487	520	638	660	670
Bandwidth		nm	± 5	± 5	± 5	± 5	± 5	± 5	± 5
Fiber output power(max)	SM	mw	30	15	10	10	30	10	5
	MM	mw	120	65	40	60	120	24	12
Input Voltage		V	5-6	5.1-6	6-7.5	6.5-7.5	2.6-3.0	2.0-2.7	2.2-2.6
Input Current		mA	130-180	84-120	105-135	180-230	260-280	65-100	30-45
SM Beam Size@WD1m		mm	2.0	2.0	2.0	2.0	2.1	2.1	2.1
Stability		-	< 2%						
Channels		-	2-7						
Laser Safety Level		-	-						