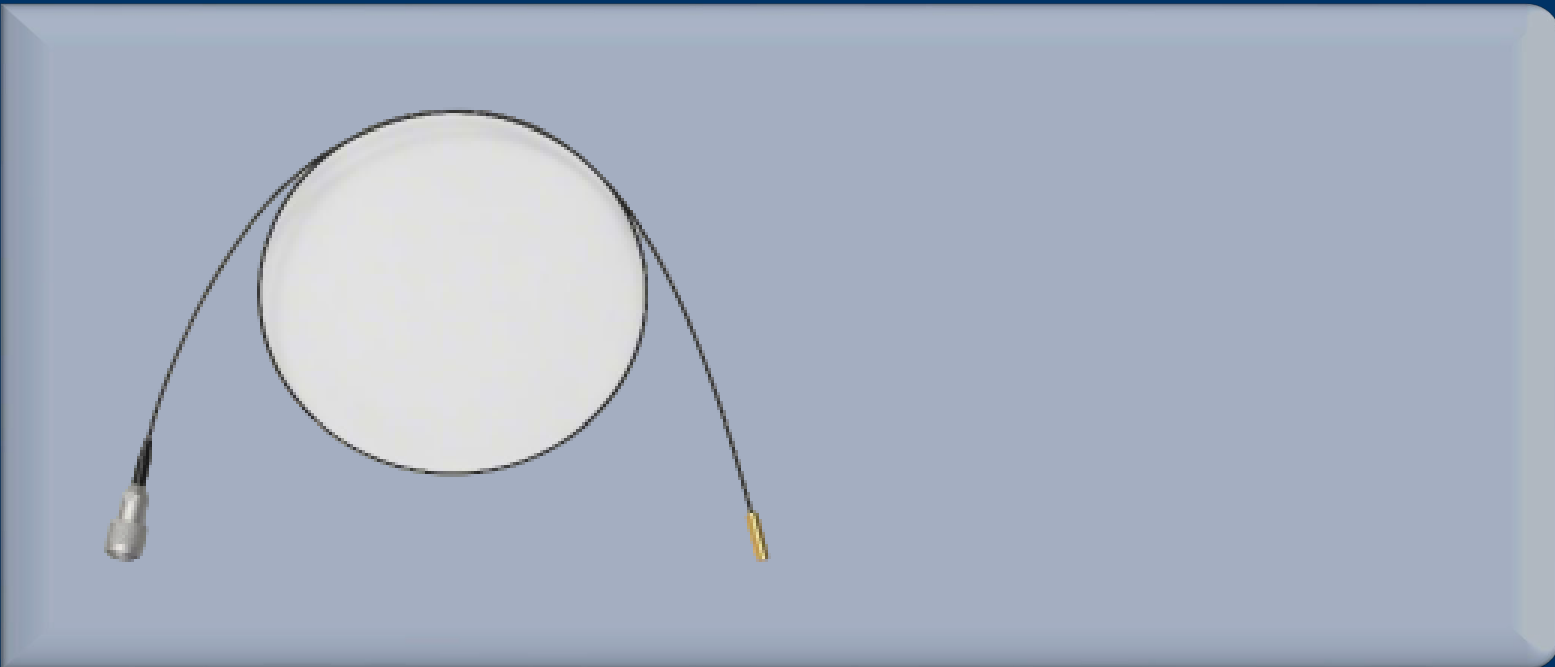


Fiber Collimators

Single-mode fiber collimator

Multi-wavelength coverage + low-loss performance + Flexible adaptation

- Wide-wavelength high-precision collimation
- Low-loss and highly reliable transmission
- Flexibly adaptable to multiple scenarios



One Platform Many Possibilities

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Overview

Introduction:

Focusing on the field of beam control in the visible to near-infrared wavelength range (405nm-1064nm), it fills the market gap for multi-wavelength standardized collimators. It provides "multi-wavelength compatibility + low loss" beam collimation solutions for fields such as optical measurement, optical communication, and laser technology, and is particularly suitable for precision optical scenarios with high requirements for beam parallelism and signal stability. As a universal collimating accessory, it can be directly adapted to mainstream equipment such as Raman spectrometers, laser interferometers, fiber lasers, and optical communication modules. It can achieve the beam collimation function without structural modification of the original equipment.

Features:

- Wide-wavelength high-precision collimation
- Low-loss and highly reliable transmission
- Flexibly adapts to multiple scenarios
- Compact structure and expansion compatibility
- Precise coverage with multiple models

Specification

Common Parameter Specification Table

Parameter Item	Unified Parameters for 10 Models
Wavelength Range	405nm, 450nm, 488nm, 520nm, 638nm, 660nm, 785nm, 850nm, 980nm, 1064nm
Working Distance Range	0 - 2m (Adjustable)
Return Loss	45dB
Insertion Loss	0.3dB
Fiber Jacket Diameter	0.9mm
Housing Material	Non-magnetic stainless steel / Brass (Optional)
Standard Connector Types	FC/PC, FC/APC, SMA905 (Customizable)
Divergence Angle	2.5mrad
Beam Waist Range	0.25mm - 2mm

Service & Support

We are dedicated to delivering exceptional optoelectronic solutions to every client. From precision manufacturing and secure delivery to full-lifecycle technical support, we are here to ensure a seamless and reliable experience at every step.

1. Warranty Policy

Quality First, Worry-Free Operation

Warranty Period: We offer a **two-year** warranty service for all of our core optoelectronic products, effective from the date of shipment.

Coverage: We provide free repair or replacement services for malfunctions caused by material defects or workmanship errors under normal operating conditions.

Rapid Response: Upon receiving a warranty claim, we guarantee to initiate the assessment process within **24 hours** to minimize your equipment downtime.

2. Technical Support

Expert Team, Full-Process Guidance

Technical Consultation: Our team of senior optical engineers provides **24/7 online support** to assist with installation, commissioning, optical path alignment, and parameter optimization.

Scheduled Maintenance: We offer full-lifecycle maintenance recommendations, including firmware upgrades, optical component cleaning guidelines, and precision calibration services.

Training Services: We provide customized remote or on-site operational and safety training to ensure your team can operate the equipment efficiently and safely.

3. Logistics & Delivery

Precision Packaging, Global Reach

Professional Packaging: Given the fragile nature of optical instruments, we utilize industrial-grade shockproof, anti-static, and moisture-proof vacuum packaging to ensure zero damage during transit.

Logistics Partners: We partner with top-tier global logistics providers (**DHL / FedEx / UPS / SF Express**) to offer reliable shipping with real-time tracking.

Shipping Insurance: All shipments are fully insured to eliminate logistics risks.

4. Compliance & Certification

Strict Standards, Total Compliance


Quality Certification: Our manufacturing process is **ISO 9001 certified**, and our products comply with international standards such as **CE** and **RoHS**.

Export Compliance: "Committed to environmental responsibility, all our products comply with **RoHS 2.0** and **REACH** standards, ensuring safety and global compliance."

Explore Series

VLFL-405-SF	4*14mm: Beam Waist 0.35mm/0.95mm, Divergence Angle 2mrad/ 0.5mrad; 12*16.5mm: Beam Waist 0.55mm, Divergence Angle 0.5mrad; 12*25.5mm: Beam Waist 2mm, Divergence Angle 0.5mrad	3.0um	0 - 2m	405nm
VLFL-450-SF	3.2*10.4mm: Beam Waist 0.25mm, Divergence Angle 2mrad; 4*14mm: Beam Waist 0.45mm/1.1mm, Divergence Angle 2mrad/ 0.5mrad; 12*16.5mm: Beam Waist 0.8mm, Divergence Angle 0.5mrad; 12*25.5mm: Beam Waist 2mm, Divergence Angle 0.5mrad	3.5um	0 - 2m	450nm
VLFL-488-SF	3.2*10.4mm: Beam Waist 0.4mm, Divergence Angle 2mrad; 4*14mm: Beam Waist 0.45mm/1.0mm, Divergence Angle 2mrad/ 0.5mrad; 12*16.5mm: Beam Waist 0.75mm, Divergence Angle 0.5mrad; 12*25.5mm: Beam Waist 2mm, Divergence Angle 0.5mrad	3.5um	0 - 2m	488nm
VLFL-520-SF	3.2*10.4mm: Beam Waist 0.4mm, Divergence Angle 2mrad; 4*14mm: Beam Waist 0.45mm/1.0mm, Divergence Angle 2mrad/ 0.5mrad; 12*16.5mm: Beam Waist 0.65mm, Divergence Angle 0.5mrad; 12*25.5mm: Beam Waist 2mm, Divergence Angle 0.5mrad	3.5um	0 - 2m	520nm
VLFL-638-SF	3.2*10.4mm: Beam Waist 0.4mm, Divergence Angle 2mrad; 4*14mm: Beam Waist 0.45mm/1.2mm, Divergence Angle 2mrad/ 0.5mrad; 12*16.5mm: Beam Waist 0.55mm, Divergence Angle 0.5mrad; 12*25.5mm: Beam Waist 2mm, Divergence Angle 0.5mrad	4.0um	0 - 2m	638nm
VLFL-660-SF	3.2*10.4mm: Beam Waist 0.4mm, Divergence Angle 2mrad; 4*14mm: Beam Waist 0.4mm/1.2mm, Divergence Angle 2mrad/ 0.5mrad; 12*16.5mm: Beam Waist 0.75mm, Divergence Angle 0.5mrad; 12*25.5mm: Beam Waist 2mm, Divergence Angle 0.5mrad	4.0um	0 - 2m	660nm

VLFL-450-SF	3.2*10.4mm: Beam Waist 0.25mm, Divergence Angle 2mrad; 4*14mm: Beam Waist 0.45mm/1.1mm, Divergence Angle 2mrad/ 0.5mrad; 12*16.5mm: Beam Waist 0.8mm, Divergence Angle 0.5mrad; 12*25.5mm: Beam Waist 2mm, Divergence Angle 0.5mrad	3.5um	0 - 2m	450nm
VLFL-488-SF	3.2*10.4mm: Beam Waist 0.4mm, Divergence Angle 2mrad; 4*14mm: Beam Waist 0.45mm/1.0mm, Divergence Angle 2mrad/ 0.5mrad; 12*16.5mm: Beam Waist 0.75mm, Divergence Angle 0.5mrad; 12*25.5mm: Beam Waist 2mm, Divergence Angle 0.5mrad	3.5um	0 - 2m	488nm
VLFL-520-SF	3.2*10.4mm: Beam Waist 0.4mm, Divergence Angle 2mrad; 4*14mm: Beam Waist 0.45mm/1.0mm, Divergence Angle 2mrad/ 0.5mrad; 12*16.5mm: Beam Waist 0.65mm, Divergence Angle 0.5mrad; 12*25.5mm: Beam Waist 2mm, Divergence Angle 0.5mrad	3.5um	0 - 2m	520nm
VLFL-638-SF	3.2*10.4mm: Beam Waist 0.4mm, Divergence Angle 2mrad; 4*14mm: Beam Waist 0.45mm/1.2mm, Divergence Angle 2mrad/ 0.5mrad; 12*16.5mm: Beam Waist 0.55mm, Divergence Angle 0.5mrad; 12*25.5mm: Beam Waist 2mm, Divergence Angle 0.5mrad	4.0um	0 - 2m	638nm
VLFL-660-SF	3.2*10.4mm: Beam Waist 0.4mm, Divergence Angle 2mrad; 4*14mm: Beam Waist 0.4mm/1.2mm, Divergence Angle 2mrad/ 0.5mrad; 12*16.5mm: Beam Waist 0.75mm, Divergence Angle 0.5mrad; 12*25.5mm: Beam Waist 2mm, Divergence Angle 0.5mrad	4.0um	0 - 2m	660nm
VLFL-785-SF	3.2*10.4mm: Beam Waist 0.35mm, Divergence Angle 2mrad; 4*14mm: Beam Waist 0.45mm/1.0mm, Divergence Angle 2mrad/ 0.5mrad; 12*16.5mm: Beam Waist 0.65mm, Divergence Angle 0.5mrad; 12*25.5mm: Beam Waist 2mm, Divergence Angle 0.5mrad	5.0um	0 - 2m	785nm
VLFL-850-SF	3.2*10.4mm: Beam Waist 0.4mm, Divergence Angle 2.5mrad; 4*14mm: Beam Waist 0.4mm/0.9mm, Divergence Angle 2mrad/ 0.5mrad; 12*16.5mm: Beam Waist 0.7mm, Divergence Angle 0.5mrad; 12*25.5mm: Beam Waist 2mm, Divergence Angle 0.5mrad	5.0um	0 - 2m	850nm
VLFL-980-SF	3.2*10.4mm: Beam Waist 0.4mm, Divergence Angle 2.5mrad; 4*14mm: Beam Waist 0.45mm/1.0mm, Divergence Angle 2.5mrad/ 0.5mrad; 12*16.5mm: Beam Waist 0.7mm, Divergence Angle 0.5mrad; 12*25.5mm: Beam Waist 2mm, Divergence Angle 0.5mrad	6.5um	0 - 2m	980nm
VLFL-1064-SF	3.2*10.4mm: Beam Waist 0.4mm, Divergence Angle 2mrad; 4*14mm: Beam Waist 0.4mm/1.0mm, Divergence Angle 2.5mrad/ 0.5mrad; 12*16.5mm: Beam Waist 0.8mm, Divergence Angle 0.5mrad; 12*25.5mm: Beam Waist 2mm, Divergence Angle 0.5mrad	5.5um	0 - 2m	1064nm

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