



[Products & Services](#)

[Quality Commitment](#)

[News](#)

[About SLT](#)

[Contact Us](#)

[Request for Quote](#)

[Specialty Fibers](#)

[Fiber Assemblies](#)

[Polarization Maintaining](#)

[Fiber Collimators/Focusers](#)

[Large Beam Collimators](#)

[Small Beam Collimators](#)

[Tiny Fiber Collimators](#)

[High Temp Collimators](#)

[Array Fiber Collimators](#)

[Fiber Focusers](#)

[U-Bench Fiber Collimator Pair](#)

[High Temp Collimators](#)

[Tiny Fiber Collimators](#)

[Array Collimators](#)

[Fiber Arrays/Bundles](#)

[Fiber Coupler/Splitter](#)

[Fiber-Coupled Laser](#)

[Laser Combiners](#)

[LEDs, Broadband Sources](#)

[Optical Coatings](#)

[Waveguide Polishing/Pigtailing](#)

[Raman Components](#)

[Photonics & Modules](#)

[Photodetector/Amplifier](#)

[Harsh Environment](#)

[Optomechanicals, Mounts](#)

[Custom Photonics/Packaging](#)

Large Beam Fiber Collimator - LB10



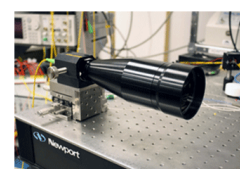
[VIEW LARGER IMAGE](#)

- Pure Gaussian Beam: 5mm, 10mm, 20mm, 45mm, 60mm, and 70mm
- Diffraction Limited Collimation
- Wavefront Error < 1/10 Wave
- Singlemode, PM or Multimode Fibers
- Operating Wavelength 350 - 1800nm
- 64 - 80 Pitch Fine Adjustable Collimation
- Polarization Orientation Indexing
- Front or Back Mounting Features
- High Power Handling Options up to 20 Watts
- FC, SMA Receptacle or Pigtail

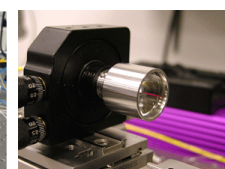
Product Description:

Our high-performance pure Gaussian beam fiber collimators are designed and manufactured with special applications in mind ranging from Lidar, Interferometry, Remote Sensing, to Spectroscopy, Biomedicals, and Sensors, ...

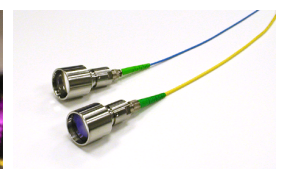
A wide variety of fibers and numerical aperture (NA) can be used including singlemode, multimode, or polarization maintaining fibers. Operating wavelengths cover from 350nm to 2000nm and even extend into the Mid-IR in custom order. These collimators can work with semiconductor lasers, YAG, DPSS, Ti-Sapphire, HeNe, and Fiber Lasers as well as many broadband sources. Other options include high power (up to 20W), high temperature (up to 600°C), non-magnetic, radiation resistant materials and fibers, vacuum compatible, custom housing: Invar, Titanium, glass, ceramic, integrated waveplates/polarizer collimators, or low temperature collimators. We also manufacture specialty high power patchcords, high temperature and mode size converters as accessories to work with these collimators.



LB80 Fiber Collimator



LB20 Collimator on Newport Mount



LB20 Fiber Collimator



LB20R Fiber Collimator

Specifications	Drawings	Test Data						
Characteristics	Unit	LB5	LB10	LB20	LB20R	LB45	LB65	LB80
Beam Size (1/e ² , NA=0.13)	mm	3.8	7.1	13	15.8	40	65	70
Beam Divergence	mrad	0.5	0.25	0.1	0.1	0.1	0.1	0.1
Wavefront Error	wave	1/10	1/10	1/10	1/10	1/10	1/10	1/10
Pointing Error	mrad	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Input Receptacle		FC, SMA or Pigtail						
Collimation Adjustable		Yes, 64-80 Pitch						
Power Handling		Up to 20 Watts						
Operating Temperature		-5°C to +80°C (up to 600°C optional)						
Housing		Stainless Steel				Anodized Al-6061		

Related Components:



LB45, LB65 and LB80 are compatible with Newport ULM Mount



LB5, LB10 and LB20 are compatible with Newport LPV Mount

Ordering Information:

Collimator Type:

Fiber Type:

Wavelength [nm]:

Connector Type:

Additional Requirements:

[Add to Get Quote List](#)