

Fiber Collimator Family

Summary 2016 - 2017



Summary

Our family of Fiber Collimators has grown over the years as new applications have surfaced. They have found many applications in the aerospace, analytical and biomedical industries. The key feature for the standard collimators is they have excellent beam quality, little to no fluorescence, span the range from 200nm to 2300nm and can be adjusted to your exact wavelength. Each of the different types of fiber collimators have a more detailed data sheet which can be found on our website. Lasers are also available for these collimators. Call or email us to discuss how we can provide the best solution to your fiber collimator needs.



Small Fiber Collimators

	Applications
FCX2 Fixed Focus Small outer diameter of 2.4mm at visible to NIR wavelengths. Much less scatter than gradient index lenses at visible wavelengths. Options for polarizers, focusing optics, beam bending. Approximately 0.6mm beam.	<ul style="list-style-type: none"> • Fluorescence excitation • Particle counting • Thin films • Probes
FCX5 Fixed Focus Small outer diameter of 7mm at visible to NIR wavelengths. Approximately 2mm beam.	

FC5 Family



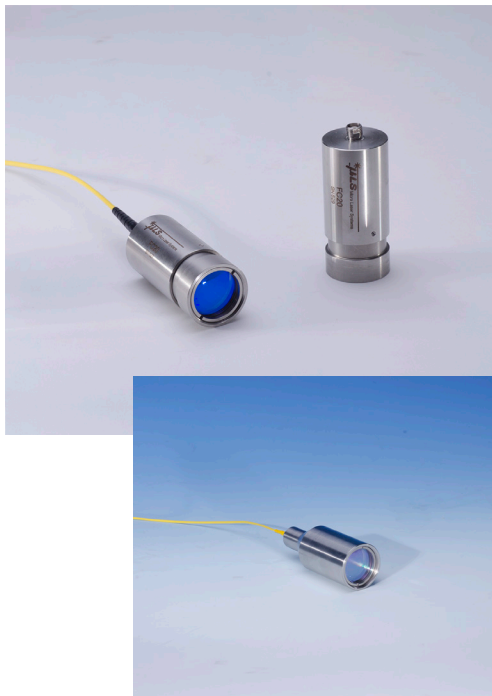
	Applications
FC5 Standard Adjustable focus from 350nm to 2300nm with diffraction limited performance. All have low wavefront error and beam size of 2.1mm.	<ul style="list-style-type: none"> • Microscopy • Fluorescence excitation • Optical tweezers • Precision alignment • Quantum optics
FCX5 RGB Diffraction limited 2mm beam from 450nm to 700nm.	<ul style="list-style-type: none"> • Microscopy • Flow cytometry • DNA sequencing
FC5 MIR Adjustable focus 1 mm beam from 2500nm to 6000nm	<ul style="list-style-type: none"> • Gas absorption • Wafer probing
FC5 Fused Silica Adjustable focus 2mm beam from 200nm to 2300nm for singlemode and PM fibers. Version for multimode fibers also available.	<ul style="list-style-type: none"> • Spectroscopy • Radiation environments • Space environments • Accelerators

Summary



FC10 Collimators and Fiber Focusers

	Applications
FC10 Standard Adjustable focus 5.5mm beam from 350nm to 2300nm with diffraction limited performance. All have low wavefront error.	<ul style="list-style-type: none"> • Microscopy • Optical tweezers and trapping • Interferometry • Ophthalmology
FC10 Fused Silica Adjustable focus 5.5mm beam from 200nm to 2300nm with diffraction limited performance	<ul style="list-style-type: none"> • Spectroscopy • Radiation environments • Space environments • Accelerators
Fiber Focuser Uses FC10 with focusing objectives to generate micron spots with long working distance.	<ul style="list-style-type: none"> • Cytometry • DNA sequencing • Micro array scanners • Laser printing • Wafer probing
Fiber Receiver Collects light and injects into multimode fiber. Visible to NIR.	<ul style="list-style-type: none"> • Spectroscopy



FC20 Fiber Collimators

	Applications
FC20 Standard Adjustable focus from 350nm to 2300nm with diffraction limited performance and low wavefront error.	<ul style="list-style-type: none"> • Lidar • Free space communications • Interferometry • Metrology
FC20 Fixed Focus An FC20 fixed to popular wavelengths with singlemode or PM fiber pigtail.	<ul style="list-style-type: none"> • Doppler lidar • Lidar • Free space communications • Interferometry • Laser printing/writing

Summary



FC40 & FC45 Fiber Collimators

	Applications
FC40 and FC45 Adjustable focus 23mm and 33mm beam from 350nm to 2300nm with diffraction limited performance. Both have low wavefront error.	<ul style="list-style-type: none"> • Free space communications • Lidar • Interferometry • metrology

New FC100 Fiber Collimator

	Applications
FC100 Adjustable focus 50mm beam from 350nm to 2300nm with diffraction limited performance	<ul style="list-style-type: none"> • Free space communications • Lidar • Interferometry



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