

# FC100

## Large Fiber Collimator

*New!*

### Features

- Usable from 1000nm to 1700nm
- ~100 mm aperture
- Adjustable focus
- No epoxy in the optical path
- Low wavefront error
- Designed for Singlemode or PM fibers
- FC or FC/APC receptacle

### Applications

- Free space communications
- Lidar
- Remote sensing
- Metrology



For those wanting BIG BEAMS, we have our High Performance FC100 Large Fiber Collimators. It's multi-element design gives a highly collimated, Gaussian beam with low wavefront error.

All optics are AR coated to give high transmission. Presented is the coating range from 1000nm to 1700nm for the popular 1550nm. To accommodate all the different wavelengths that are now available, the focus is adjustable providing linear motion with no rotation of the optics. Once you have adjusted for your wavelength you can lock it down. There is a second lock down mechanism for use against vibrations. Back end has an FC or FC/APC receptacle.

A sturdy mount has threaded holes to mount the fiber collimator to stages, tables and tripods.

Application include free space communications, lidar, metrology and remote sensing.



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# FC100 Large Fiber Collimator

## Specifications

Mechanical aperture:	97.8 mm
Beam size at 1/e <sup>2</sup> points:	50 mm
Beam divergence:	<0.025 mrad
Wavefront error, over 1/e <sup>2</sup> points rms:	<1/4 wave at 633 nm <1/10 wave at 1550 nm
Receptacle:	FC or FC/APC
Collimation:	Adjustable with no rotation
Locking:	yes

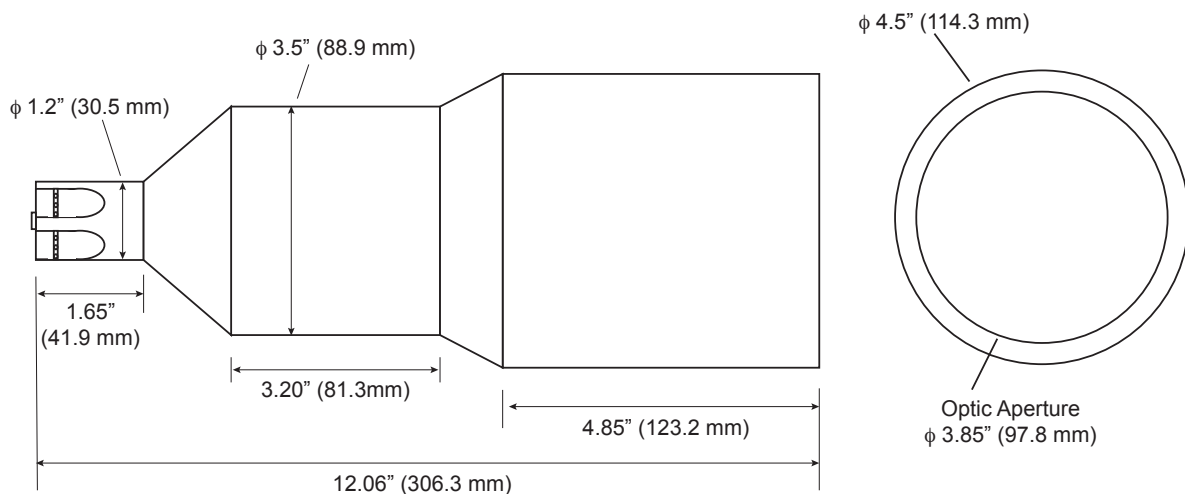
## Ordering Information

Model #	Description
FC100-NIR2-FC	100mm aperture, FC receptacle
FC100-NIR2-APC	100mm aperture, FC/APC receptacle
MT4.5SS	FC100 mount for use on tables, stages or tripods.

NIR2 covers  $\lambda = 1000\text{nm}$  to  $1700\text{nm}$

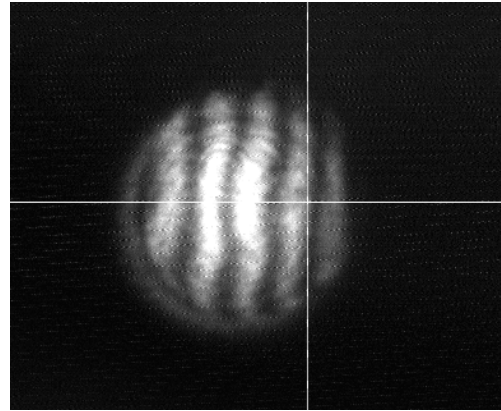
Other wavelength range available on a semi-custom basis.

## Dimensions



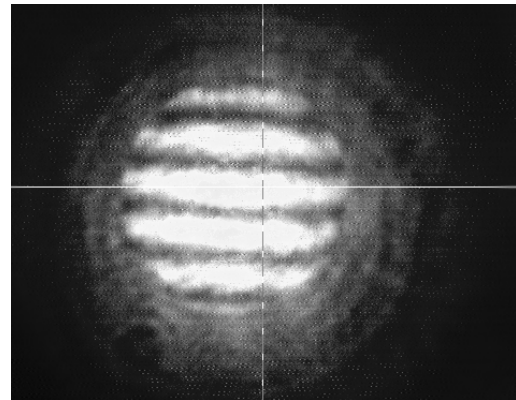
### 640 nm

Wavefront error is 1/4 wave p-v over the central 50% of aperture. Shown below is full aperture.



### 1550 nm

Wavefront error is 1/10 wave p-v over the central 50% of aperture. Shown below is full aperture.



Specifications subject to change without notice.



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