

Multimode Fiber Receiver/Collector



Features

- **Designed for multimode fibers**
- **Collects all wavelengths from 400nm to 700nm and injects it into 100 μ m core fiber with >90% efficiency**
- **10mm aperture size**
- **Front aperture can accept 1/2 inch optics**
- **Adjustable focus**
- **Standard SMA receptacle**

The FR10 Fiber Receiver was designed specifically to collect fairly collimated light and inject it into a 100 μ m core fiber. It will collect multiple wavelengths from 400nm to 700nm at the same time and inject it into the core of a 100 μ m fiber with greater than 90% efficiency.

This fiber receiver works much better than using a fiber collimator backwards. The results are a larger signal. Also most fiber collimators in the market are fixed at one wavelength and so do a terrible job at collecting light from multiple wavelengths and injecting it into a fiber.

The FR10 Fiber Receiver is housed in stainless steel for ruggedness with an SMA receptacle. Focus is preset at the factory for collimated light. For the times when light is not as collimated as one would like, the focus can be adjusted by the user for optimal signal strength.

A nice feature is the internal threads at the aperture so that 1/2 inch optics, such as filters, can be mounted.

Accessories available are a ring adapter to mount to common optical mounts and optical fibers.

Applications include gathering light for sensors, detectors, and spectrometers.



Multimode Fiber Receiver/Collector

Specifications

Wavelength range:	400-700nm
Aperture size:	10mm
Focus:	Adjustable
Lockdown:	yes
Body material:	Stainless steel
Receiving fiber core size:	100µm or larger
Receiving fiber NA:	0.22
Receptacle:	SMA

Works very well with fairly collimated light at all wavelengths from 400-700nm as set at the factory. For slightly diverging or converging light, the focus can be adjusted.

Ordering Information

Model #	Description
FR10-VBB/SMA	Fiber receiver for all wavelengths from 400-700nm
FC10R-1.0	Adapter to mount FR10 into 1 inch optical mounts
FM-C100UV3C-001	100µm step index fiber with SMA connectors
FM-C200UV3C-001	200µm step index fiber with SMA connectors

For OEM users we can fix a permanent fiber to the receiver, manufacture larger aperture sizes, install any filters or optical devices or design for a different wavelength range.

