# Fiber Optic Collimator with Adjustable Focus



## Overview

Focus Adjustable Fiber Collimators can adjust beam diameter at specified distance by screwing a ring, which drives a lens stuck to it and changes the distance between this lens and fiber at last. Thorlabs offers a variety of fiber collimation and coupling solutions. FiberPorts can be used to provide a stable platform for coupling light into and out of FC/PC, FC/APC, or SMA terminated fiber with five or six directional adjustments. Our Polaris ® Kinematic Collimators offer high-quality. Thorlabs' Achromatic Fiber Collimators with adjustable focus are designed with an effective focal length (EFL) to the fiber of 20 mm, 40 mm, or 80 mm. In principle, a simple collimation lens (see Figure 1) is sufficient for that purpose. However, the fiber end has to be firmly fixed at a distance from the lens. The fiber collimator is a commonly used passive optical component in fiber optic signal transmission, capable of converting the divergent light from the fiber output end into collimated light (parallel light) through an internal aspheric lens.



© 2026 CJC FIBRE CONSULTANTS - All rights reserved

## Article Content

Collimation / Coupling

Fiber Alignment Stages and Solutions Objective, Scan, and Tube Lenses Fixed Focus, Aspheric Lenses Fixed Focus, Large Beam Collimators Fixed Focus

Large-Beam Achromatic Fiber Collimators, Adjustable

Thorlabs'' Achromatic Fiber Collimators with adjustable focus are designed with an effective focal length (EFL) to the fiber of 20 mm, 40 mm, or 80 mm. Each

Fiber Collimators – lens, collimated beam, focal length, beam size ...

CSRayzer provides different kinds of fiber collimators, which can be customized for high power, focusing distance, beam spot diameter, etc. Fixed focus collimators are also available.

LBTEK-Rotary Adjustable Focus Collimator

The rotary adjustable focus collimator provided by LBTEK features a compact structure and simple, convenient adjustment, making it easy to collimate fiber optic output light.

LBTEK-Adjustable-Focus Collimator

LBTEK adjustable-focus fiber collimators are available with FC/APC connectors and designed for use with single-mode fiber patch cables. AR coating options cover 350–700 nm, 600–1050 nm, and

Focus Adjustable Fiber Collimators

Focus Adjustable Fiber Collimators from Z Optics offer precise beam diameter adjustment at specified distances by rotating a ring to shift the lens position

Adjustable Fiber Optic Collimators

These adjustable collimators are designed specifically for singlemode and polarization maintaining (PM) fiber applications which need to generate a clean

Large Fiber Collimators

Our adjustable focus collimators can replace 3 or 4 fixed wavelength collimators. You can optimize collimation to your operating wavelength and lock it down. Besides collimating the beam you can

LightPath® Fiber Optic Collimators

LightPath® Fiber Optic Collimators are designed to collimate light exiting a fiber to a desired beam diameter or spot size or to focus light into a fiber when used in

*© 2026 CJC FIBRE CONSULTANTS - All rights reserved*

Adjustable Fiber Collimators-JCOPTIX MALL

The adjustable focus fiber collimator provided by JCOPTIX consists of three parts: an external stainless steel housing, a compression spring, and a non spherical lens.

OZ Optics Fiber Optic Patchcords and Collimators with Adjustable Focus

OZ Optics Fiber Optic Patchcords and Collimators with Adjustable Focus OZ Optics offers a complete line of fiber collimators and focusers with low backreflection, designed to collimate or focus light

FC/PC Adjustable Aspheric Collimators

Thorlabs'' Adjustable Focus FC/PC Collimators consist of a spring-loaded, AR-coated aspheric lens mounted inside a stainless steel cell. They are designed to collimate light exiting a fiber; for fiber-to

Fiber Optic Collimators | MEETOPTICS Academy

Adjustable focus collimators are extensively employed in optical microscopy, imaging, and laser machining systems where the distance between the collimator and the target varies.

Advanced 2D Fiber Array Assemblies for Silicon Photonics, OXC, and ...

Driving Next-Generation Optical Integration with Precision Fiber Array Technology As photonic integration continues toward higher bandwidth, greater channel density, and smaller package sizes,

Product Configurator

Product Configurator for all single-mode and polarization-maintaining Fiber Cables. Please use the check boxes and sliders to select certain features and narrow down your search to the specifications

Fiber Collimator, Fiber-Optic Collimation and Focusing Assemblies

Optical fiber collimator (2000nm 1550nm 1310nm 1064nm 980nm 850nm 780nm 650nm 632nm 630nm 460nm 450nm fiber-optic collimation and focusing assemblies) is used for getting enlarged collimated

Fixed Focus Collimation Packages: SMA905

These fiber collimators are intended for use with single mode patch cables but can also be used with small-core, low-NA, multimode fiber optic patch cables. For

LightPath® Fiber Optic Collimators

LightPath Fiber Optic Collimators are used to collimate/focus light exiting a fiber to a desired beam diameter and are available at Edmund Optics.

*© 2026 CJC FIBRE CONSULTANTS - All rights reserved*

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

## Contact Us

Continue your research online:

Website: https://cjcconsultants.co.za
Technical inquiry: https://cjcconsultants.co.za/contact.html

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

© 2026 CJC FIBRE CONSULTANTS - All rights reserved