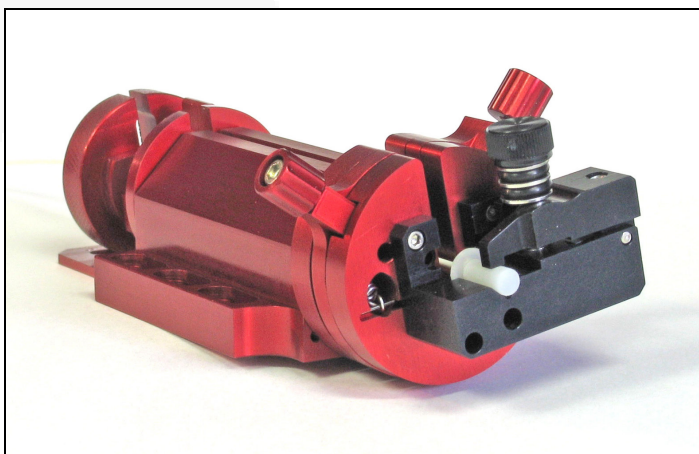


Fiber Rotator

The Fiber Rotator combines a precision zero-backlash bearing assembly with an optional 2-axis tuning module to allow positioning the optical axis of a waveguide to within 1 micron of the rotational axis.

FEATURES

- Adjustable Center of Rotation (optional)
- Zero-Backlash Bearing
- 360 Degree Continuous Rotation
- Holders for Bare and Mounted Fibers
- Compatible with Luminos Positioning Stages



ADJUSTABLE CENTER OF ROTATION

The optional 2-dimensional tuning module enables accurate positioning of the center of the waveguide at the center of rotation, minimizing signal change during rotation. This adjustability allows a wide range of sample sizes to be accurately centered with a single holder.

Utilizing a fully preloaded 2-axis ball-bearing design, the tuning module provides high stability and precision alignment within 1 micron.

ZERO-BACKLASH BEARING

A stable rotational axis is provided with the use of a custom designed zero-backlash multi-axis preloaded journal bearing. Bearing tolerances are held at zero with the use of flexure-based preload elements.

VERNIER SCALE

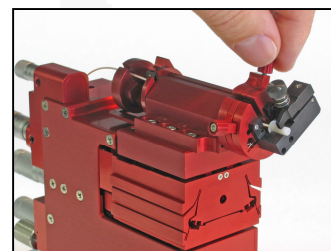


For determining angular movements, the Rotator is equipped with a graduated dial marked at 5-degree intervals as well as a 1-degree resolution vernier scale.

COMPATIBLE WITH LUMINOS STAGES

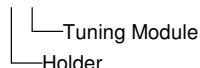
Based on a nominal 2mm projection of the waveguide from the holder, the end of the waveguide is coincident with the rotation center of a Luminos I5000/I6000 stage.

The rotator mounting holes are compatible with any of the I3000, I5000, I6000 series stages.



ORDERING INFORMATION

FRM-X-X



Holder

- N** None
- 1** Bare Fiber: 125µm cladding (100-140µm with Tuning Module), 250-900µm buffer.
- 2** Ferrule Type: 1.0mm OD (0.7-1.8mm with Tuning Module), 4mm minimum length, 250-900µm buffer
- 3** Ferrule Type: 3.18mm OD (2.0-4.0mm with Tuning Module) SMA flange type, 7mm minimum length, 250-900µm buffer
- 4** Ferrule Type: 2.0mm OD (1.5-3.0mm with Tuning Module), 4mm minimum length, 250-900µm buffer
- C** Custom: Consult Factory for availability of sizes not listed

Tuning Module

- Y** Tuning Module included.
- N** Holder is factory aligned for a specific fiber or device.

Part #	Description
FRM-3-Y	Fiber Rotator with Holder: SMA Ferrule 3.18mm and Tuning Module

