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Light Input



Fixed-position fiber adapter

FC-446-010

This fixed-position fiber adapter is designed for general light input to a spectrograph and is not intended for imaging applications. It mounts directly to IsoPlane spectrograph slit assemblies. Optional FC-446-010-FC for fibers with FC-connectors, FC-446-010-SMA for fibers with SMA-905 connectors.

Note: *This adapter cannot be used with motorized slit assemblies.*



Adjustable fiber adapter

FC-446-020

This adjustable fiber adapter is designed to hold 10 mm diameter fiber bundles directly at the entrance slit of the IsoPlane. It includes a spring-loaded slide mechanism that facilitates precise horizontal alignment of the fibers to the slit opening. Thumb screws on each side control horizontal adjustment. Optional FC-446-020-FC for fibers with FC-connectors, FC-446-020-SMA for fibers with SMA-905 connectors.



Universal fiber coupler

FC-446-021-U

This versatile universal fiber coupler features X-Y micrometer control, 0.12 inches (3 mm) of travel, an interchangeable 10 mm diameter ferrule, an SMA 905 connector, and FC inserts. A slit baffle is included for use with the IsoPlane. Highly recommended for coupling fibers to IsoPlane spectrographs.



Imaging fiber adapter

FC-446-030

The imaging fiber adapter refocuses fiberoptic input and is designed for use with filter wheels or other devices placed between the fiber end and the IsoPlane entrance slit. The adapter accepts a 10 mm diameter ferrule and provides horizontal and vertical alignment capabilities. The all-reflective design eliminates chromatic aberrations and the aspheric mirror cancels astigmatism, allowing precise imaging of fibers to the spectrograph entrance slit. There is also a 0.75” (19 mm) thick removable spacer to allow use with filter wheels or other accessories.



Raman notch filter chamber

NFC-446-040

The Raman notch filter chamber offers an efficient and easy method for using Raman notch or edge filters with the IsoPlane spectrograph. The chamber collects the output of fibers and collimates the beam, which passes through the filter. A second lens focuses the beam on the entrance slit of the IsoPlane. The chamber includes an adapter for 1.0” (25.4 mm) filters. A micrometer controls the filter angle from 0 to 10° for precise rejection of unwanted Raleigh scatter. The chamber can also accept non-fiber sources or focused sample images.



Sample chamber

SC-447

The sample chamber features ports with light-tight covers and two quartz lenses. It includes one mounting port for the IsoPlane entrance/exit slit, and two mounting ports for light sources or detection. Requires sample holder.

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