

Filter Sample Holders

In-line Filter Holder

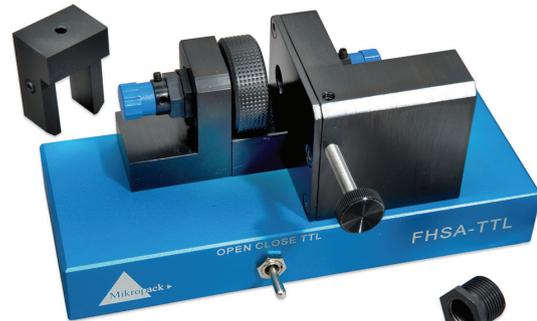
The FHS-UV In-line Filter Holder is a dual-purpose fixture for projecting a collimated beam of light through a flat optical filter. The FHS-UV can measure the transmission of filters, or provide a location in an optical system for inserting filters. It has two 74-UV Collimating Lenses mounted across a filter holder, which holds round filters up to 25 mm in diameter and samples up to six millimeters thick. (For large filters and other samples, see the 74-ACH Adjustable Collimating Lens Holder.) A bushing keeps the filter against the reference surface. A shutter facilitates taking dark measurements.



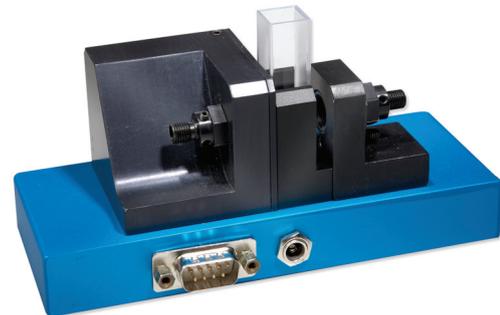
FHS-UV In-line Filter Holder

Filter & Cuvette Holders

What's unique about the FHS Filter/Cuvette Holders is you can configure the holders to sample either cuvettes or filters. Use the FHSAs to measure transmission of 1-cm square cuvettes or filters up to seven millimeters thick. In addition, FHSAs interface via RS-232 bus to PCs, allowing you to control some functions of the FHSAs via software, which is included. With the FHS-TTL, you have manual control of attenuation (adjustable from 0-100%), and manual or software control of a shutter. With the FHS-RS232, you have software control of both the attenuation and shutter functions. Both versions include a 12 VDC power supply.



FHS-TTL as Filter Holder



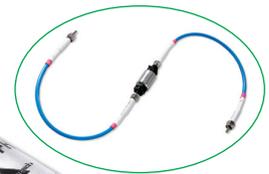
FHS-TTL as Cuvette Holder

Specifications

	FHS-TTL	FHS-UV
Dimensions:	140 mm x 50 mm x 50 mm	50.6 mm x 140 mm x 43.1 mm
Weight:	490 g	240 g
Power consumption:	100 mA @ 12 VDC	None
Filter size (maximum):	Any sample up to 7 mm thick	25-mm diameter round; any sample up to 6-mm thick
Light source:	None	None
Wavelength range:	200-2000 nm	200-2000 nm
Optical fibers required:	Yes	Yes
Cuvette dimensions:	10 mm x 10 mm	None
Shutter frequency:	5 Hz/60 dB (maximum)	None
Shutter response time:	7 μsec	None

Filter Holders for Optical Fibers

The INLINE-FH In-line Filter Holder (top photos) holds INLINE-OF Filters or other filters 8 mm in diameter and 2-5 mm thick. The Filter Holder includes two collimating lenses and connects to two fibers for in-line filtering. The FH-SMA (bottom photos) allows you to mount filters or diffusers at the end of SMA 905-terminated optical fibers. The FH-SMA accepts 8-mm diameter filters in thicknesses of 1-7 mm. See page 164 for information on available filters for the INLINE-FH or FH-SMA.



Specifications

	FH-SMA	INLINE-FH
Dimensions:	16 mm diameter	15 mm diameter
Weight:	10 g	20 g
Filter size:	8 mm diameter, 1-7 mm thick	8 mm diameter, 2-5 mm thick
Material:	Anodized aluminum	Stainless steel (collimating lenses have anodized housings)

