SPECTROMETER ACCESSORIES

CUVETTE HOLDERS

The SPC-CVH-10-xx Cuvette Holders accept a standard 10-mm path length cuvette for liquid or powder samples. SMA-terminated optical fibers are used to couple light sources and spectrometers to the device. The Cuvette Holder is compatible with Mightex's fiber coupled LED sources, Mightex's spectrometers, as well as any other light sources or spectrometers with SMA termination. The standard configuration of a SPC-CVH-10-xx Cuvette Holder comes with two SMA fiber collimators, with the option of adding up to a total of four (4) SMA fiber collimators. This compact design can easily be inserted into a lab setup, and there is a filter slot on the holder which is perfect for fluorescence applications.

Key Features

Designed for 10-mm path length cuvettes
Up to four (4) SMA ports
Filter slot accepts filters up to 5mm in thickness
M4 and 8-32 mounting holes

MODELS

SPC Cuvette Holders

SPC-CVH-10-00 | No fiber optic collimators
SPC-CVH-10-2V | 2 fiber optic collimators, 350-2000nm
SPC-CVH-10-3V | 3 fiber optic collimators, 350-2000nm
SPC-CVH-10-4V | 4 fiber optic collimators, 350-2000nm
SPC-CVH-10-2U | 2 fiber optic collimators, 185-2100nm
SPC-CVH-10-3U | 3 fiber optic collimators, 185-2100nm
SPC-CVH-10-4U | 4 fiber optic collimators, 185-2100nm

SPECTROMETER SLITS AND INPUT ADAPTER

Part Number	Description
ACC-SPC-ADP-0000	SMA fiber input adapter for spectrometers without an entrance slit.
ACC-SPC-ADP-0005	Additional spectrometer input adapter with 5um slit.
ACC-SPC-ADP-0010	Additional spectrometer input adapter with 10um slit.
ACC-SPC-ADP-0025	Additional spectrometer input adapter with 25um slit.
ACC-SPC-ADP-0050	Additional spectrometer input adapter with 50um slit.
ACC-SPC-ADP-0100	Additional spectrometer input adapter with 100um slit.
ACC-SPC-ADP-0200	Additional spectrometer input adapter with 200um slit.

Please note that one only needs to order the adapters if one needs an additional input slit, as the original spectrometer already includes a slit. For customers who require spectrometers without an input slit, an input adapter (ACC-SPC- ADP-0000) is required.

WHITE REFLECTION STANDARD

Part Number	Description
WRS-001	White reflectance standard, 1" in diameter

COSINE CORRECTOR

Part Number	Description
ACC-SPC-COS1	Cosine corrector for light collection and radiometric/photometric measurement, transmission range: 220nm - 2500nm, SMA connector.

MECHANICAL HOLDERS FOR FIBER OPTIC COLIMMATORS

Part Number	Description
ACC-FOC-045-100	Mechanical Holder for Holding Two Collimators at 45 Degrees.

DIRECT-COUPLING COLLIMATORS

Direct-coupling collimators are used to either coupling light from free space into a spectrometer or collimating light from a point light source to form a collimated (parallel) optical beam. Direct-coupling collimators are key components with numerous applications. For example, in spectroscopy, a direct coupling collimator can collect light in a narrow field of view into a spectrometer. In another example, one collimator is connected to a point light source and the collimated beam passes through a cuvette. On the other side of the cuvette a second collimator couples light directly into a spectrometer.

Key Features

BK7 lens, 350nm to 2000nm
UV fused silica lens, 185nm to 2100nm
Adjustable focus
Aluminum alloy construction
Internal SMA thread

To maximize transmission wavelength range Mightex direct-coupling collimators feature a single BK7 or UV fused silica lens without optical coating. The collimator housing is machined from aluminum alloy for maximum durability. The collimator features an internal SMA thread for direct connecting to spectrometers with popular SMA input ports.

When installed on a spectrometer, the full field of view (FOV) or full divergence angle can be calculated as FOV = 2atan(W/2f) where W is the width of the entrance slit of the spectrometer and f is the focal length of the lens. Alternatively, the linear field of view on an object placed a distance L away from the collimator is W(L/f). Focusing of the collimator is adjustable for object distance between 50mm to infinity.

MODELS

DCC Collimators | 10mm focal length, 5mm clear aperture

DCC-010-005-U | UV fused silica, 185-2100nm
DCC-010-005-V | BK7, 350-2000nm