

CUV-UV-10, CUV-VIS-10 Cuvette Holders

The **CUV-UV-10** and **CUV-VIS-10 CUVETTE HOLDERS** for 10-cm cuvettes couple to our spectrometers and light sources to create spectrophotometric systems for absorbance and transmission measurements of aqueous solutions and gases for UV-VIS-NIR (~200-1100 nm) or VIS-NIR (~360-1100 nm) applications.

Parts Included

- ◆ Cuvette Holder assembly for holding 10-cm cuvettes
- ◆ Black Cover for eliminating ambient light
- ◆ Two Barbed Fittings for connecting a temperature stabilizing water source
- ◆ Allen wrench for adjusting collimating lenses

Operation

Attaching the Fibers

1. Attach one end of a SMA-terminated optical fiber to one of the collimating lenses. Attach the other end of this fiber -- the illumination fiber -- to a light source.
2. Attach another SMA-terminated optical fiber to the second collimating lens. Attach the other end of this fiber -- the read fiber -- to the spectrometer.

Using the Fiber Supports

1. Snap the clamps around the fibers after the fibers are screwed into the light source and spectrometer.
2. Lift the clamps until they support the fibers. To remove the fibers, simply unsnap the clamps.

Installing Filters

1. Tighten the thumb wheel completely when not using a filter.
2. Loosen the thumb wheel on the left side of the cuvette holder, creating enough space for the filter.
3. Insert the filter into the filter slot, which can hold filters up to 6 mm thick, and tighten the thumb wheel.

Using the Temperature Stabilization Feature

This feature is used to heat or cool the cuvette holder base and cuvette.

1. Remove the two plugs from the top side of the base. (The plug on the right side of the base should stay in place but may require thread tape.)
2. Replace the plugs with the two barbed fittings (or any 1/8" NPT Pipe thread fittings). Thread tape may be required on the fittings.
3. Connect the fittings to a water source. Water will circulate through the base.

Specifications

Collimating lenses (VIS-NIR):	BK 7 glass (~360 nm - 2 μ m*), 5 mm diameter
Collimating lenses (UV-VIS-NIR):	Dynasil 1100 quartz (200 nm - 2 μ m*), 5 mm diameter
Base material and length:	Aluminum, 5.5"
Water input fittings:	1/8" NPT pipe thread

* Though the VIS-NIR lens is optimized for use to 2 μ m, it can be configured to "see" only to 1100 nm with our S2000 spectrometer.