Operating Instructions
for
SC-447
Sample Chamber
SC-447 Sample Chamber mounted on the exit slit of the SpectraPro-150 scanning monochromator.

The SC-447 is compatible with all SpectraPro series monochromators and spectrographs (mounts to the standard slit assembly).

Standard Sample Holders (shown from left to right)

- 447-3 Fixed Position Microscope Slide Holder
- 447-2 Fixed Position Mount with Removable Sample Holder for 1.0" (25.4mm) Diameter Samples
- 447-2A Additional 1.0" (25.4mm) Sample Holder
- 447-1 General Purpose Holder, shown with standard 10mm path length cuvette.

SC-447 Sample Chamber with the 447-1 General Purpose Holder set up for standard 10mm path length cuvettes.

Notice the optical configuration (from left to right) showing the monochromator exit slit, order sorting filter holder, first quartz lens, 447-1 general purpose holder mounted on a rotary carousel, a second quartz lens, and the sample chamber output port with tapped holes for mounting detector assemblies.
Inside view of the SC-447 showing the 447-1 general purpose sample holder turned around to accept solid samples up to 50x50x10mm.

Notice the “spring clip” style holders mounted on the adjustable sliding block to hold solid samples securely in position.

SC-447 with the 447-2 fixed position mount and removable sample holder for 1.0” (25.4mm) diameter samples.

The 447-2A sample holder being removed from the fixed position mount.

The sample holder is designed for easy insertion and removal, for fast, convenient sample changing.
MODEL 447-1 GENERAL PURPOSE SAMPLE HOLDER
CUVETTE HOLDER AND APERTURE BRACKET POSITIONS
IN MODEL SC-447 SAMPLE CHAMBER

SOLID SAMPLE CONFIGURATION

OPTIONAL DETECTOR

CUVETTE HOLDER AND APERTURE BRACKET POSITION FOR MEASURING SOLID SAMPLES

3/4" SPACER

SPECTRA PRO EXIT SLIT

OPTIONAL FIXED POSITION FILTER MOUNTING BRACKET (P/N 447-7) (1 OF 3)

CUVETTE SAMPLE CONFIGURATION

OPTIONAL DETECTOR

3/4" SPACER

SPECTRA PRO EXIT SLIT

CUVETTE HOLDER AND APERTURE BRACKET POSITION FOR MEASURING CUVETTES