Sample Holder for Raman Probe

Raman spectroscopy with a fiber optic probe enables very flexible sampling of liquids and solids. The laser power and wavelength required for the analysis usually results in the Raman system being designated as Laser Class III. For routine use in open laboratories, it is desirable to shield operators from the laser energy as well as prevent spurious room lights from appearing in the measured spectrum.

To facilitate routine Raman measurements, InPhotonics offers a compact sample holder for various sizes of glass vials and cuvettes. A Raman Probe is held securely in the base and a spring-loaded mechanism prevents access to direct and reflected laser light. Various inserts provide a snug fit for common sizes of sample vials. A special square insert accommodates a quartz cuvette for use when highest quality spectra are required.

The sample holder is designed for use with a Raman Probe for 5, 7.5, or 10 mm working distances. Fine focusing of the probe is achievable for maximizing the Raman signal on specific samples.

Solid sampling capabilities have been recently improved with the addition of stainless-steel cups for neat powders and films. With the sample holder tipped on its end, solids can be measured directly to avoid any spectral contribution from glass containers. Each cup is double-sided with a choice of two sampling areas.

Features

Body	Sturdy aluminum base and cap with spring-loaded sample platform prevents laser beam from escaping holder and blocks external light during measurement. Maximum sample height is 92 mm.
Inserts	Four standard inserts for cylindrical vials (29, 23, 15 mm outer diameter) and square cuvette (1 cm pathlength). Inserts have unanodized interiors for enhanced Raman signal or clear liquids. Custom inserts are available upon request. Four solid sampling cups for direct measurement of neat power and films (sample holder tips on end).
Probe Mount	Probe holder designed for 0.5” diameter Raman Probe with 5 mm or 10 mm working distance. Focus is manually adjustable.

Part Number PA-SH02

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