

Compact Sample Holder

for the RamanProbe™



Compact sample holder with four inserts.

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 RamanProbe 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 inserts accommodates a quartz cuvette, used when highest quality spectra are required.

The sample holder is designed for use with a RamanProbe with either 5, 7.5 mm or 10 mm working distance. Fine focussing 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.



Solid sampling with the entire holder tipped on end.

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 of clear liquids. Custom inserts available upon request. Four solid sampling cups for direct measurement of neat powders and films (sample holder tips on end).
Probe Mount	Probe holder designed for 0.5" diameter RamanProbe with 5 mm or 10 mm working distance. Focus is manually adjustable.