

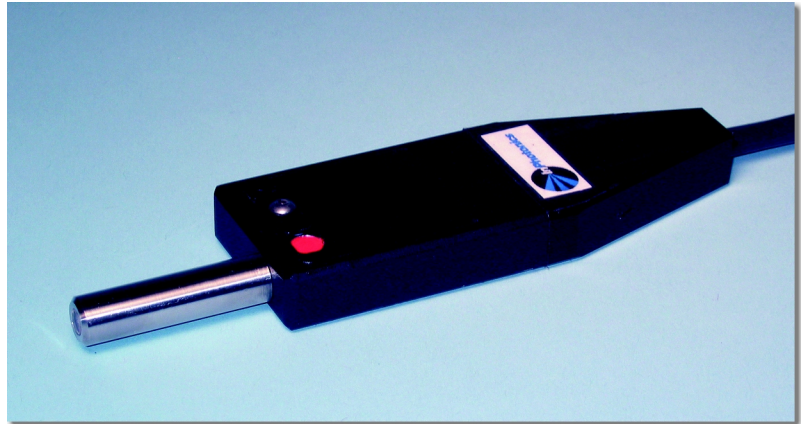


# RPB Fiber Optic Raman Probe

## Low-cost Sampling Solution

The RPB fiber optic probe is a breakthrough for routine laboratory Raman spectroscopy. A modified design based upon the patented RamanProbe™ optical layout has resulted in drastic cost-reduction with limited performance tradeoff. It is the clear Cost/Performance winner among laboratory Raman sampling probes.

The RPB is available for three excitation wavelengths: 785, 633, and 532 nm and can be directly coupled to a most spectrograph designs. Optical filtering of  $10^6$  offers efficient attenuation of the Rayleigh line for background-free spectra. The probe is lightweight and compact, and has a manual safety shutter to shield the user from laser light. As with our standard RamanProbe™, the RPB can be used with the compact sample holder for routine measurement of liquids and solids. Custom configurations are available for high-volume applications.



### Features and Specifications

Sampling Head	Anodized aluminum probe, 4.2" x 1.5" x 0.5" (107 x 38 x 12.7 mm), with 1.5" (38 mm) long non-immersible, stainless-steel probe tip
Spectral Range	300 - 3900 $\text{cm}^{-1}$ (Stokes), depending upon spectrograph limits
Excitation Wavelengths	514, 532, 633, "785" (782 - 788 nm), 830 nm
Working Distance	7.5 mm (std.), 5.0 or 10 mm optional
Fiber Configuration	Permanently-aligned combination of two single fibers (105 $\mu\text{m}$ excitation fiber, 200 $\mu\text{m}$ collection fiber) with filtering and steering micro-optics, N.A. 0.22, in rugged polyurethane jacket.
Filter Efficiency	Patented design for complete filtering of the laser line and quartz spectral contributions from both input and output fibers (O.D. 6 at laser wavelength).
Physical Resistance	Durable probe can be used up to 80°C
Cable Length/ Coupling System	1.5 m with FC (std.) or SMA 905 connectors
Safety Features	Manual safety shutter with integrated calibration standard (patented); Class I sample holders available
Retail Price	\$ 2,750 USD

*Specifications and prices are subject to change without notice.*