

RAMAN PROBE (532/785nm)

Advantages

- High efficiency on Raman spectrum collecting
- Extremely high reliability under extreme conditions.
- >7 OD efficient attenuation of the Rayleigh line for background-free spectra
- Compatible to most laser/spectrograph combinations
- Compact dimension.
- 100% tested.
- State of the art fabrication capability.

Overview

Agiltron manufactures state-of-the-art Raman Probe for routine laboratory Raman spectroscopy. A modified design based upon the patented US 6,897,951 B2 probe optical layout has resulted in enhanced optical performance and compact dimension.

The Probe is available for two excitation wavelengths: 785nm and 532 nm and can be coupled to a variety of spectrograph designs.



Mechanical Features

Probes are typically manufactured with aluminum body and a 2 inch stainless shaft for a light weight and stable performance. Devices can be supplied with optional immersion shaft which can be used in 200°C and 200PSI condition.

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Data Sheet

Sampling Tube	Stainless-steel, cylindrical probe head, 0.5" in diameter (12.7 mm) x 6" length (76 mm), with integrated fiber optics
Spectral Range	100 - 4000 cm^{-1} (Raman Shift, due to spectrometer)
Excitation Wavelengths	532, 785 nm, others available upon request
Working Distance	5 mm (std.), immersion (6mm spherical sapphire lens opt.)
Fiber Configuration	Permanently-aligned combination of two single fibers (100 μm excitation fiber with FC/PC Connector, 200 μm collection fiber with SMA905 Connector)
Filter Efficiency	Patented design for complete filtering of the laser line and quartz spectral contributions from both input and output fibers (O.D. > 7 at laser wavelength)
Physical Resistance	Extremely durable sampling head and fiber cable, resistant to physical shock, can be heated to 80°C. Option: High-temperature version resistant to 200°C
Cable Length	1 m std. (Option: up to 20 m)
Coupling System	Available with FC (std.) or SMA 905 connectors
Dimension	70X30X20mm

Ordering Information

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	Wavelength	Fiber Length	Shaft type	Connector type
	785=785nm 532=532nm	01=1m 99=99m	SD=standard IM=immersion	SD=standard CM=customized