

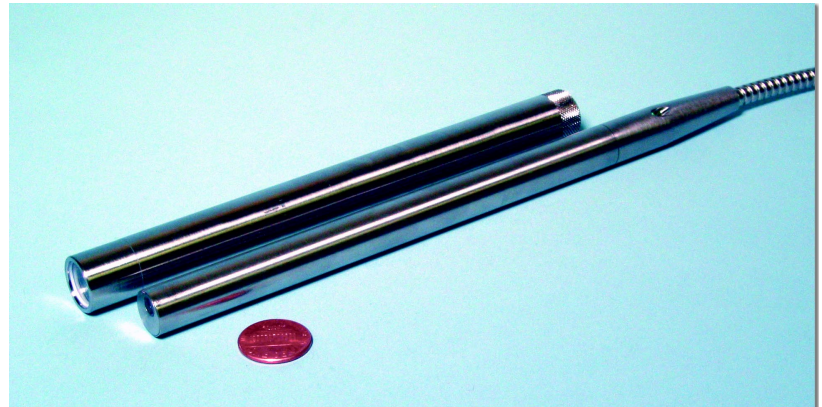


RamanProbe™ II

Immersible Laboratory Probe

The RamanProbe II is a versatile fiber optic probe for immersion analysis based on the patented optics of the original RamanProbe. The 8" long body and removable sleeve enable the probe to be immersed directly in solutions for true *in situ* analysis up to 200°C. Working distance is selectable by sliding the outer sleeve, allowing the user to optimize the measurement of clear or turbid solutions.

The standard immersion sleeve is made of stainless-steel with a sapphire window. Overall, the probe is 5/8" in diameter, small enough to fit inside typical laboratory-scale vessels. The sleeve can be quickly removed for routine measurement of neat solids or samples in bottles.



Features and Specifications

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|----------------------------------|--|
| Sampling Head | Stainless-steel, cylindrical probe head with removable immersion sleeve, overall dimensions 5/8" (15.8mm) diameter x 8" (230 mm) length |
| Spectral Range | 250 - 3900 cm ⁻¹ (Stokes), depending upon spectrograph limits |
| Excitation Wavelengths | 514, 532, 632, 670, 785, 830 nm, others available upon request |
| Working Distance | Sliding immersion sleeve provides selectable working distance to optimize measurement of clear and turbid solutions |
| Fiber Configuration | Permanently-aligned combination of two single fibers (100 μm excitation fiber, 200 μm collection fiber) with filtering and steering micro-optics, N.A. 0.22, in stainless-steel outer jacket. Options: Fiber sizes ranging from 50 μm to 500 μm. |
| Filter Efficiency | Patented design for complete filtering of the laser line and quartz spectral contributions from both input and output fibers (O.D. > 8 at laser wavelength). |
| Physical Resistance | Entire probe head can be heated to 200°C. Sapphire window sealed to stainless-steel sleeve with PTFE gasket. Quartz window available as option (recommended for 633 and 670 nm excitation). |
| Cable Length/ Coupling System | 5 m with FC (std.) or SMA 905 connectors |
| Safety Features | Emission indicator (std.), Class I sample holders available (for use without immersion sleeve). |
| Retail Price | \$ 6,745 USD |

Specifications and prices are subject to change without notice.