Raman Probe

SIM-6131 Series

Raman probes are probes designed for laser-induced Raman spectrum applications such as 532nm, 785nm, 830nm, and 1064nm. Raman spectrum measurement applications are realized by using it with a semiconductor laser and a spectrometer. By equipping different sampling holders, samples with solid, liquid or powder form can be examined. The optical interference filter of OD6 effectively ensures the filtering of Rayleigh signals and the compact design makes the Raman probe easier to realize Raman spectrum measurements.

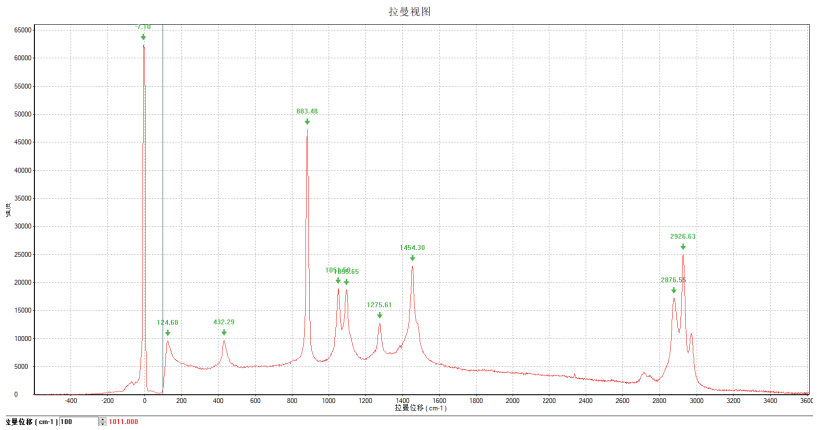
Features

- Broader spectral range
- Good consistency
- Multi-wavelength optional
- OD6 filter effectively reduces the Rayleigh scattering.

Applications

- Portable Raman spectrum measurement
- Modular Raman spectrum measurement

Typical Spectrum

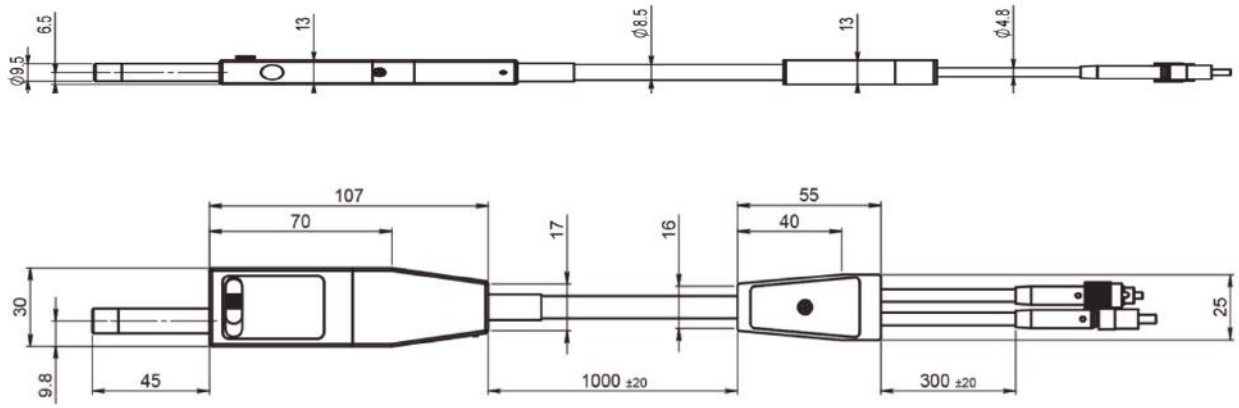


Alcohol Raman 785nm

Specifications

Central Wavelength (nm)	532	785	830	1064
Wavelength Range	176-4000cm^{-1}	176-3500cm^{-1}	176-2800cm^{-1}	200-3000cm^{-1}
Operation Mode	Fiber output			
Probe Size	107 x 30 x 13mm			
Cut-off Depth	OD6			
Probe Working Distance	7.5mm			
Transmitting End	Core dia. 105um, NA0.22, FC/PC or SMA905			
Receiving End	Core dia. 200um, NA0.22, SMA905			
Fiber Length	(100+30)±0.2cm			
Working Temperature	10~30°C			
Working Humidity	0-75% RH			

Dimensions (mm)



Optional

BRM-7601 532nm Narrow Linewidth Laser
BRM-7602 785nm Narrow Linewidth Laser
BRM-7603 830nm Narrow Linewidth Laser
BRM-7604 1064nm Narrow Linewidth Laser