

Modular Endoscopic Raman Probe

ATR20103

Features

- Excitation Wavelength: 785nm, customizable
- Fiber Interface: FC connector
- Fiber core diameter: 400μm
- Fiber numerical aperture: 0.22NA
- Fiber length: 1.5m
- Spectrometer interface: SMA connector
- Laser interface: FC connector

Application

- Medical endoscopic Raman spectroscopy
- Gastrointestinal tract examination
- Surface analysis of biological samples

Description

The Modular Endoscopic Raman Probe is a cutting-edge tool in Raman spectroscopy, designed for precision and versatility in medical diagnostics, pharmaceuticals, and chemical monitoring. Its modular design allows for easy replacement of the Fiber, reducing costs and preventing cross-contamination. With a 400μm core diameter and advanced Rayleigh scattering suppression, it ensures high sensitivity and accurate results. Ideal for non-destructive testing and real-time analysis, this probe meets the growing demand for customizable, efficient solutions in industries like biomedicine, materials science, and chemical manufacturing.

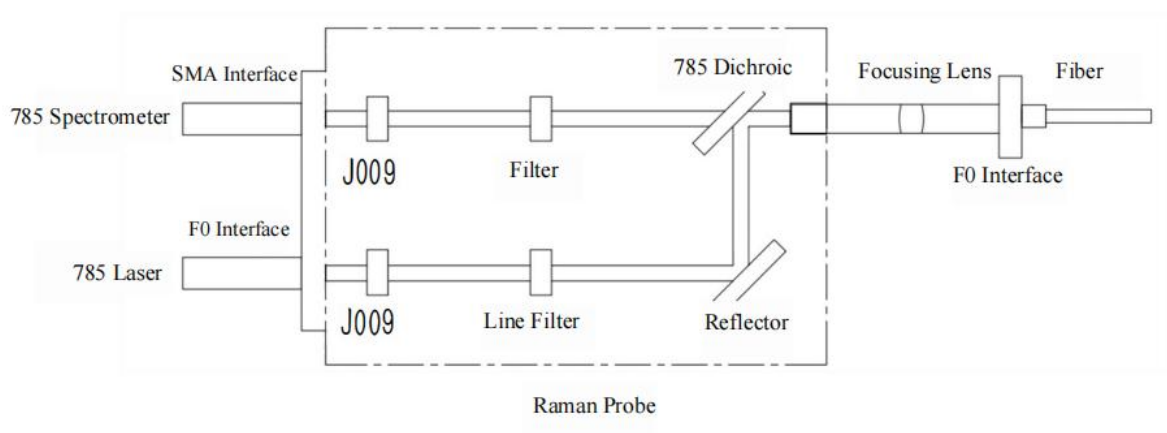
Model	Description
ATR20103	Standard Version



1. Parameter

Item	Specification
Excitation Wavelength	785nm, customizable with other wavelengths
Wavenumber Range	150-6000 cm^{-1}
Fiber and Probe Connection	FC connector
Fiber Parameters	
Core Diameter	400 $\pm$ 9 μm
Cladding Diameter	440 $\pm$ 8 μm
Coating Diameter	625 $\pm$ 25 μm
OH Level	Low
Numerical Aperture	0.22 $\pm$ 0.02 NA
Interface	FC connector
Length	1.5m
Probe Parameters	
Rayleigh Scattering Suppression	OD>8
Raman Signal Fiber	400/440 μm multimode fiber; SMA905 connector
Laser Fiber	105/125 μm multimode fiber; FC/PC connector
Length	1.5m, customizable to other lengths

2. Structural Diagram



3. Application Examples

