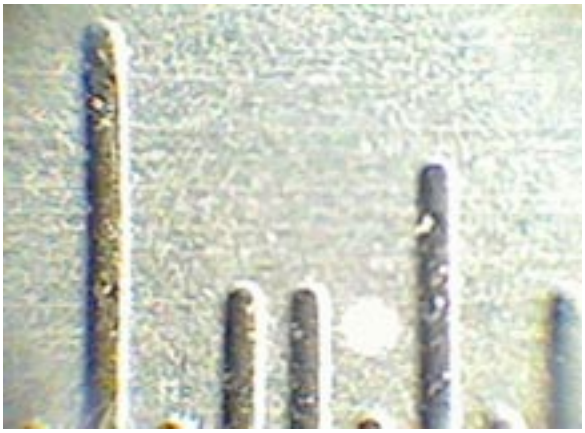
Imaging Fiber Optic Raman Probe

Accurate Sampling Solution

The imaging probe is a video camera integrated with a standard Fiber Optic Raman probe in a handheld housing. The sharp image from the video camera shows the excitation laser spot, which facilitates alignment of the sampling location. The camera is connected to a PC of your own choice via a USB port. The camera driving software is included.



Raman signal is collected efficiently by the objective lens on the probe tip, which has a high numerical aperture and is broadband coated. The objective lens also serves as part of the imaging system. The field of view of the imaging system is about 0.1 inch in diameter.

Features and Specifications

Raman Probe

Probe Size	4.4" x 3.3" x 1.6"
Spectral Range	200 - 3900 cm^{-1} (Stokes), depending upon spectrograph limits
Excitation Wavelengths	514, 532, 633, "785" (782 - 788 nm), 830 nm
Working Distance	7mm
Physical Resistance	Durable probe can be used up to 80ºC
Coupling System	FC (std.) or SMA 905 connectors
Safety Features	Manual safety shutter with integrated calibration standard (patented); Class I sample holders available

Video Camera

Camera Sensor	1/4" CMOS, 2MP, 24 bit color depth (true color)
Video Resolution	up to 1600X1200 pixels (HD quality)
Frame Rate	up to 30 frames per second
Interface	USB port
Field of View	0.1 inch dia.

Specifications and prices are subject to change without notice.

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