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Миниатюрная рамановская визуализация

Miniature Raman imaging



- ATR8300AF combines the advantages of the microscope and Raman spectrometer. It features auto-focusing that is possible to see macro or micro areas of samples on the computer screen at just a single mouse click. When accurate positioning is visualized, the observer can detect Raman signals under various surface conditions, and synchronized Mapping can be displayed intuitively on the screen at one click operation. As a result, it provides great convenience to detect micro or macro areas of samples. Combine unique patented conjugate focusing(true confocal) system with accurate image processing algorithm, and it enables a very small sample area to be analyzed, as well as it requires minimal operator training and maintenance, yet resulting in uniform result not just spectra.
- ATR8300AF is configured with tailor-made objective, and a laser spot on the sample becomes very close to the diffraction limit, then focal information can be displayed accurate and intuitive on the screen with a 3-megapixel camera. This configuration improves Raman spectral quality for overcoming the limitations of Raman systems where the focal plane for Raman signal collection is slightly above or below the images plane.
- ATR8300 works stable with no moving components of optical path switch, hence it avoids loss of the optical path while images formed, and it gains an optimized signal from separating images formed from Raman signal collection.
- Optosky provides an industry-leading level of miniature Raman microscope, it can easily collect Raman spectrum in different locations, check if the material nature is uniform or not, and Raman image can be formed on the screen.

RAMAN SPECTROMETER SYSTEM PARAMETERS

Interface	USB2.0
Microscope Camera System	3-megapixel /5-megapixel camera
Focus Type	Conjugate focus

RAMAN SPECTROMETER RELIABILITY

Spectral Stability	$\sigma/\mu < 0.5\%$ (COT 8 hours)
Temperature Stability	Spectral shift $\leq 1 \text{ cm}^{-1}$ (10-40 °C)

RAMAN SPECTROMETER OPTICAL PARAMETERS

Spectral Range	200-3800、150-2600 cm (Other wave ranges can be customized to a minimum of 50cm-1)
Resolution	5 cm-1
SNR	>5000:1

RAMAN SPECTROMETER DETECTOR

Detector Model	TEC refrigeration 2048 pixel CCD
Dynamic Range	10000:1
Pixel Size	14 μm *500 μm

RAMAN SPECTROMETER LASER PARAMETERS

Laser Linewidth	0.1nm
Power Stability	$\sigma/\mu < \pm 0.2\%$
Laser Spot Diameter	>1 μm

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