

ProRaman-W-FT *WIDE-RANGE FLOW-THROUGH RAMAN ANALYZER*

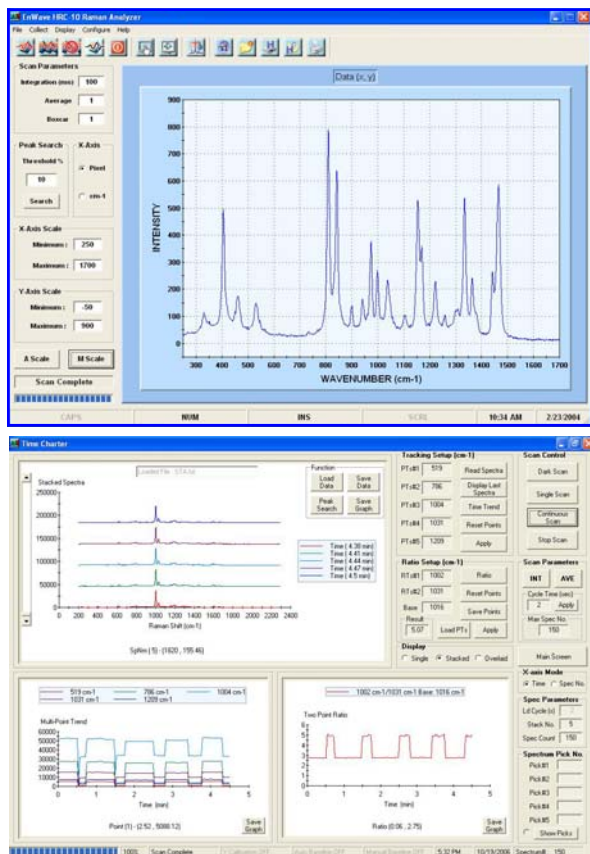
The new **ProRaman-W-FT Wide-Range Flow-Through Raman analyzer** is a high performance Raman instrument suitable for industrial applications or laboratory experiments requiring an affordable, high sensitivity flow-through Raman system.

The ProRaman-W-FT system features a 785 nm frequency stabilized laser, high sensitivity CCD spectrograph with the CCD cooled to -60°C and a high throughput flow-through liquid sampling cell. The system has 10cm^{-1} averaged optical resolution with spectral coverage from ~ 250 to $3,200\text{ cm}^{-1}$.

The ProRaman-W-FT is ideal for on-line wet process monitoring for Semiconductor, Pharmaceutical, Paper and Pulp, Chemical, and Petrochemical industries.



Sample Screen Shot



SYSTEM FEATURES

- **High Sensitivity Raman System for Laboratory & Industrial Process Monitoring**
- **High Power, NIR, Frequency Stabilized, Narrow Linewidth Excitation Source**
- **Choice of CCD cooled to -60°C**
- **Averaged Optical Resolution $\sim 10\text{ cm}^{-1}$, Spectral Coverage $\sim 250\text{-}3,200\text{ cm}^{-1}$ (785nm excitation)**
- **Immersion Fiber Probe (O.D. > 8)**
- **Best Performance / Cost**

SPECIFICATIONS

EXCITATION SOURCE	NIR, 785nm Frequency Stabilized, Narrow Linewidth Diode Laser Estimated Laser Lifetime: > 10,000 Hours
IMMERSION FIBER-OPTIC PROBE	Quartz Flow Through Cell with Low Sample Volume Immersion Process Probe Option Available
CCD SPECTROGRAPH	High Sensitivity CCD Spectrograph; TEC cooled CCD camera to -60°C Optical Resolution: $\sim 10\text{ cm}^{-1}$ (6 cm^{-1} Optional) Spectral Coverage: $\sim 250\text{ cm}^{-1}$ to $3,200\text{ cm}^{-1}$
SYSTEM SOFTWARE	Data Acquisition, Chemical Process Monitoring, and Spectra Management Software Optional Symbion-RX Software for Pharmaceutical on-line process control applications (21CFR Part11 Compliant)
SYSTEM OPERATING TEMPERATURE/ PROTECTION	$10^{\circ}\text{C} - 40^{\circ}\text{C}$ With Thermal Shutdown Protection
POWER REQUIREMENTS	DC power supply (work both for 110/220V)
DIMENSIONS (L x W x H)" WEIGHT	17.25" x 17" x 7" $\sim 30\text{ LBS}$
SYSTEM WARRANTY	One Year for Parts and Labor

Made in USA*Specifications are subject to change without notice.*

Appropriate safety guidelines should be followed when operating this instrument.
Complies with 21 CFR 1040.10 and 1040.11