

TSI | CHEMLOGIX: A FAMILY OF LAB-GRADE CHEMICAL ANALYSIS SOLUTIONS

FROM TSI INCORPORATED



A FAMILY OF LAB-GRADE CHEMICAL ANALYSIS SOLUTIONS FOR THE FIELD AND LAB

TSI's new ChemLogix™ family of instruments simplifies complex chemical analysis. Its complete line of solutions, including Laser-Induced Breakdown Spectrometers and Raman Spectrometers, provides rapid and reliable identification of materials and chemical composition in both the laboratory and in the field for a wide range of applications and environments.

PORTABLE AND HANDHELD TOOLS FOR THE FIELD



CHEMLITE™ LASER METALS ANALYZER

Ergonomically designed, industrially-hardened, and inherently safe (no X-rays or eye hazardous lasers), the ChemLite™ Laser Metals Analyzer is a revolutionary tool in handheld metals identification providing lightning fast and laser accurate analysis of light metals, for use in aluminum mills, foundries and the scrap industry.



POLYMAX™ PLASTICS ANALYZER

A handheld instrument specifically designed for rapid and confident identification of light and black plastics with point-and-shoot ease.



ASSURX HANDHELD RAMAN ANALYZER

Provides rapid material identification for the pharmaceutical industry, meeting GMP PIC/S and 21 CFR Part 11 requirements.



EZRAMAN H-SERIES HANDHELD RAMAN ANALYZER

A general purpose, handheld Raman instrument that is simple to use so that non-technical staff can be readily trained in its use for a wide variety of applications. A variety of libraries are available for this device, or users can construct their own.



GASRAMAN NOCH 2 PORTABLE GAS-PHASE PROCESS RAMAN ANALYZER

A portable gas-phase process Raman analyzer that is the field-portable version of the NOCH-1 Raman system. It is delivered in a Pelican case for protection at the job site, and can be battery operated and a fiber optically coupled probe for easy use.



EZRAMAN-I SERIES HIGH PERFORMANCE PORTABLE RAMAN ANALYZER

The EZRaman-I Series is a high-sensitivity, field portable Raman instrument suitable for laboratory and/or field analysis. It features a high sensitivity spectrograph with CCD cooled to -50°C, and a high throughput laboratory fiber optics probe. It is ideal for demanding on-site Raman identification, chemical process monitoring in the lab, and for any academic, research, or industrial laboratories requiring lab-grade performance in the field.

BENCHTOP INSTRUMENTS FOR THE LAB



CHEMREVEAL™ LIBS DESKTOP ELEMENTAL ANALYZER

This desktop instrument provides an easy way to perform elemental composition analysis on a wide variety of sample types. It is designed for laboratory use, with both basic and advanced-level user interfaces. The ChemReveal LIBS Desktop Analyzer is optimal for researchers, scientists, and test technicians who are looking to quickly assess the element composition of solid samples.



PRORAMAN-I INDUSTRIAL PROCESS RAMAN ANALYZER

The ProRaman-I systems feature a 785nm frequency stabilized laser, a high sensitivity CCD spectrograph with CCD cooled to -60°C . Ideal as an in-line process instrument.



PRORAMAN-L HIGH PERFORMANCE RAMAN ANALYZER

The ProRaman-L features a high sensitivity CCD spectrograph with CCD cooling temperature to -60°C , and high throughput laboratory fiber optics probes. Ideal for demanding Raman analysis in academic, research, industrial laboratories and process lines requiring an affordable, high performance Raman instrument.



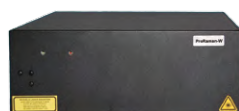
GASRAMAN NOCH 1 HIGH PERFORMANCE GAS-PHASE PROCESS RAMAN ANALYZER

A gas-phase process Raman analyzer instrument driven by a diode-pumped solid state (DPSS) laser operating at 532 nm. Provides rapid determination of gas concentration down to 0.1 mol% simultaneously. The graphic user interface of the control and data acquisition program includes a time trend and ratio calculate in a time chart mode to enable spectral changes with time to be observed.



EZRAMAN N-785 SERIES AFFORDABLE RAMAN ANALYZER

An economical Raman instrument for the lab, use in teaching, and or materials ID. This instrument features a narrow linewidth frequency stabilized laser, high throughput fiber optics probe, and an optically fast (f/1.6) spectrograph with TE cooled CCD detector. This is a high performance, low cost instrument for basic Raman analysis.



EXPERTRAMAN W-SERIES WIDE RANGE INDUSTRIAL PROCESS RAMAN ANALYZER

The highest performance ChemLogix Raman instrument with most narrow spectral resolution featuring a 785 nm frequency stabilized laser, high sensitivity CCD spectrograph with the CCD cooled to -60°C and a high throughput immersion fiber optics probe.

RAISING THE
BAR IN RAMAN AND
LIBS SPECTROSCOPY

High-performance yet easy-to-use
instruments for a broad range of applications

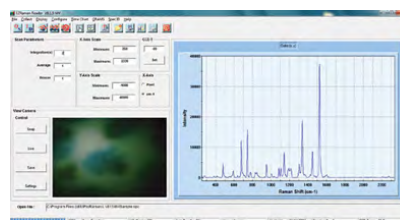
RAMAN MICROSCOPES



MICROVIEWER

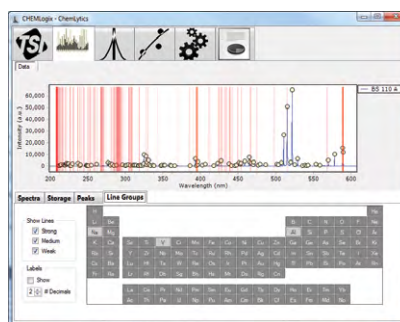
Add on a cost-efficient microscope for a truly high-performance Raman system for analysis of small spot down to 10 micron. Available with all Raman models.

SOFTWARE



RAMANREADER

RamanReader software for control, data collection and analysis available on all units. Spectral ID spectral search and GRAMS Spectroscopy manipulation software also available.



CHEMLYTICS

The ChemLytics software for LIBS analysis, with incorporated NIST OES Database and standard univariate calibration wizard, allows the advanced user to develop routine methods, view raw spectral data in higher detail, and develop calibration models.

For more information visit
www.tsi.com/ChemLogix

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