

Teksan Co.

Light Spectroscopy Instruments

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For more information on any of
our products or services please
visit us on the Web.

Portable Raman (Atrin - 532 nm Excitation)

Comprehensive, Fast and always with you

Full option and user-friendly control program



The development of portable Raman spectrometers has drastically changed the way the industry conducts quality control for incoming raw materials. Raman has always provided advantages over other methods in that it does not require sample pre-treatment or direct contact with the sample, and has the unique capability of being able to test a sample directly through a transparent packing material like glass or plastic.

Portino is designed for rapid identification of materials, from field measurements of chemical and explosive agents to counterfeit detection and authentication analysis. Its ability to be used in harsh and demanding environments is well suited to quality assurance and verification of incoming materials, as well as in-line process monitoring.

Application Areas

- Materials Engineering
- Food & Beverage Quality Control
- Chemistry
- Pharmaceutic
- Biology
- Physics
- Protein & Nucleic Acid Analysis
- Volcanology
- Color Analysis
- Environments
- Nanotechnology
- Polymers
- Agriculture

- Fastest Sampling
- Large range of options
- All modes of microscopy, transmission and reflection illumination
- Extended Spectrum acquires
- Fiber optic coupling for convenient sampling
- Easy-to-use
- Portability for in-line, at-line, or laboratory analysis
- Customizable sample holders to accommodate any sample dimension
- Tight Optical Configurations
- Step by step, easy to follow quantitative modeling and method development

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Features and Specifications

Items		Details
Laser	Type	DPSS Nd:YAG (CW)
	Wavelength (nm)	532
	Laser Power (at Probe) (mW)	80
Detector	Type	Hamamatsu
	Cooling	Up to -15 °C
	Signal-to-Noise Ratio	1000:1
	Dynamic Range	85,000
	Number of Pixels	1024 x 58 (Effective)
Resolution & Range	Integration Time	15 ms – 10 min
	Spectral Resolution (cm ⁻¹)	<5
	Spectral Range (cm ⁻¹)	220 – 4700 (Optional)
Dimensions (WxHxD) (cm)		24 x 33 x 31
Weight (kg)		≈ 7
Computer Interface		USB 2.0
Power Requirements		12V DC @ 12 Amps (Optional Battery)
Power Consumption		120 W (without PC)

SERVICES AVAILABLE

Technical Support
Installation and Setup
Maintenance
Application Support
Hardware Support
Guaranteed Warranty