Handheld Raman Systems
Easy, Fast and Accurate

The PinPointer delivers a full-featured Raman spectroscopy system in a remarkably affordable, true handheld format.

The lightweight unit is controlled by a pocket-sized computer and features easy-to-use RSIQ software for fast point-and-click operation.

Many substances emit a characteristic light when illuminated with a laser, the so-called Raman effect, that uniquely identifies molecular structure.

With a touch of a button, the PinPointer collects this emitted light scattered from a targeted object. Optional RSIQ-QUAL software will search thousands of stored reference material spectra to identify unknown substances. Within seconds, the detected chemicals are identified and displayed to the system user.

Affordable, Compact, High Performance
The PinPointer provides the same performance as other handheld Raman spectrometers aimed at homeland security or on-site chemical identification but costs thousands less.

Extensive Spectral Library
The RSIQ-QUAL software database covers most organic and inorganic substances encountered in the field by law enforcement, first responders and Homeland Security personnel. A specialized chemical database can be added upon request. Users can also create their own custom spectral libraries.

Substance Identification of Packaged Materials
Solid, powder or liquid samples can be analyzed while still contained in plastic bags or glass or plastic bottles.

Specifications	
Excitation wavelength:	785 nm
Laser power:	5-300 mW
Raman spectral range:	200-3000 cm^{-1}
Spectral resolution:	~12 cm^{-1}
Signal-to-noise ratio:	250:1 (at full signal)
Raman shift stability:	< 1 cm^{-1} in 12 hours
Photometric stability:	< 4% in 12 hours
Collection optics:	NA = 0.28, working distance = 5 mm spot size < 0.2 mm
Power:	Rechargeable battery, >4 hr. charge
Size:	8.5" x 4.3" x 2.5" (215 x 10 x 64 mm)
Weight:	3lb. (1.4 kg)
Operating temperature:	-25 °C-70 °C

RSIQ Software
PinPointer systems come with RSIQ software - a powerful database package with a simple interface and user-friendly operation. Its one-touch data acquisition and easy instrument verification make it the perfect companion for your Raman analysis. RSIQ features a comprehensive database of most organic and inorganic substances encountered in the field by law enforcement, first responders and Homeland Security personnel and you can add specialized chemical databases, or create your own, to suit your environment. The software is Windows compatible.

Add-On Modules for RSIQ (sold separately)

Item Code: RAM-RSIQ-CFR
Supports compliance with 21 CFR Part 11 "Electronic Records and Signatures"

Item Code: RAM-RSIQ-QUAL
Manages and searches user-created or purchased Raman spectral libraries

Item Code: RAM-RSIQ-QUANT
Multivariate analysis tool for calibration of PinPointer and PeakSeeker systems