



PinPointer Raman Spectroscopy

handheld solution for substance identification

The PinPointer delivers a full-featured Raman spectroscopy system in a remarkably affordable, true handheld format. This lightweight unit is controlled by a pocket-sized computer and features easy-to-use RSIQ software for fast point-and-click operation. An optional software module add-on, RSIQ-QUAL provides on-touch identification of unknown substances by immediate comparison of a measured spectrum to the on-board Raman spectral library.

Easy and Fast Substance Identification

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 much less.

Wide Chemical Coverage

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.

specifications

Excitation wavelength:	785 nm
Laser power:	5 to 500 mW
Raman spectral range:	200-2400 cm^{-1}
Spectral resolution:	$\sim 10 \text{ cm}^{-1}$
Raman shift stability:	$< 1 \text{ cm}^{-1}$ in 12 hours
Photometric stability:	$< 4\%$ in 12 hours
Collection options:	NA = 0.28, working distance = 5 mm spot size $< 0.2 \text{ mm}$
Power:	Rechargeable battery, wall plug transformer 100-240 V AC 50/60 Hz
Size:	8.5" x 4.3" x 2.5"
Weight:	3 lb.
Operating temperature:	-25°C to 70°C

