

PinPointer™

The “Point, Click, Done” Handheld Solution for Substance Identification



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

Specifications

Excitation Wavelength	785 nm
Laser Power	5 to 500 mW
Raman Spectral Range	200 to 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 Optics	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" (215 x 110 x 64 mm)
Weight	3 lb. (1.4 kg)
Operating Temperature	$-25 \text{ }^{\circ}\text{C}$ to $70 \text{ }^{\circ}\text{C}$

Benefits

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.

Substance ID of Packaged Materials

Solid, powder or liquid samples can be analyzed while still contained in plastic bags or glass or plastic bottles.

Specifications subject to change without notice.

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Chinese language software available.

PinPointer™

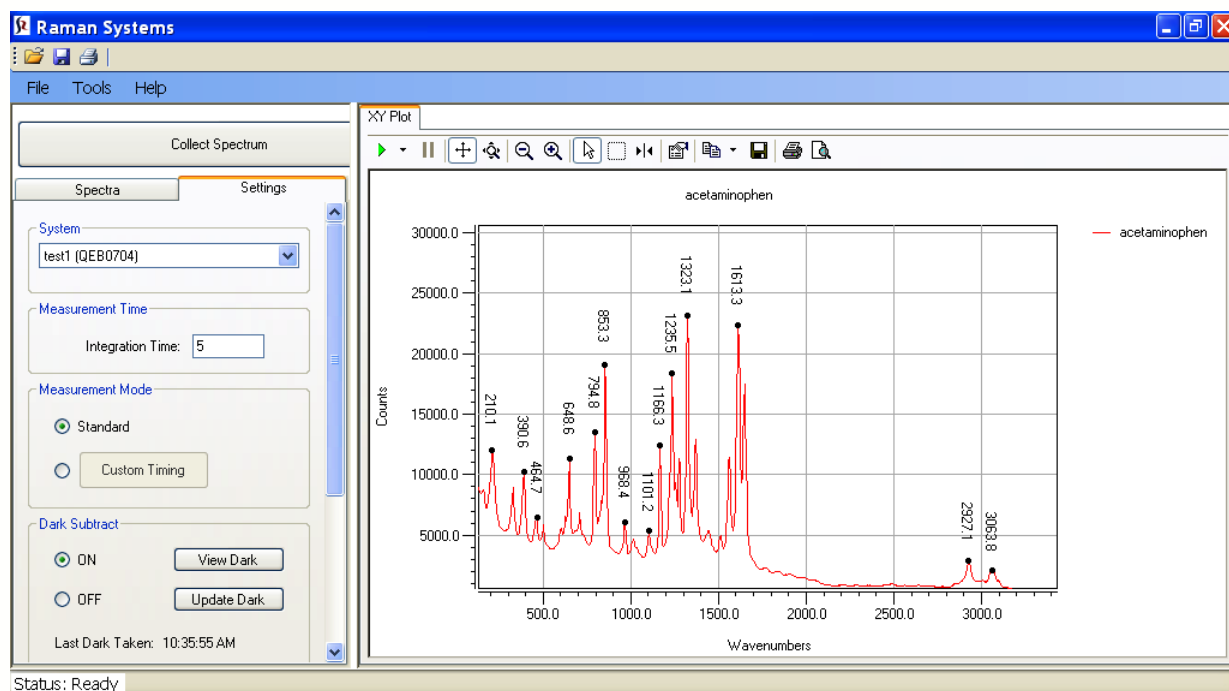
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RSIQ™ (included)
Raman Spectroscopy Software
Spectral Acquisition and Display

- ❖ User-friendly interface for routine analysis
- ❖ One-touch data acquisition
- ❖ Two data formats: SPC and ASCII
- ❖ Easy instrument verification
- ❖ Spectral smoothing & peak labeling

RSIQ-QUAL™ (sold separately)
Simplified User Interface
for Routine Material-ID

- ❖ Database matching and reporting
- ❖ Build unique spectral libraries of substances
- ❖ Commercial database with more than 8000 materials (sold separately)
- ❖ Calculation of search “hit quality”



Accessories

- ❖ Storage/Travel Case
- ❖ Liquid Sample Holder (for 8 mm vials) →
- ❖ Laser Safety Goggles
- ❖ Fiber Optic Probe (sold separately)



CLASS IIIb LASER PRODUCT
AVOID DIRECT EXPOSURE TO BEAM

