

# Handheld Raman Spectrometer

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



The **Handheld Raman** packs a full featured Raman Spectrometer system in a remarkably affordable true handheld format. The lightweight unit is controlled by a pocket-size Windows® computer and features easy-to-use software that 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 300 mW
Raman Spectral Range	200 to 3000 $\text{cm}^{-1}$
Spectral Resolution	$\sim 9 \text{ cm}^{-1}$
Signal-to-Noise Ratio	250:1 (at full signal)
Collection Optics	NA = 0.28, working distance = 5 mm spot size 0.1 mm
Power	Rechargeable battery, >4 hr charge
Size	8.5" x 4.3" x 2.5" (215 x 110 x 64 mm)
Weight	3 lb. (1.4 kg)
Operating Temperature	-25 °C to 70 °C

## Benefits

### Easy and Fast Substance Identification

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

With a touch of a button, the **Handheld Raman** collects and analyzes this scattered light from a chemical under test. The included software can search thousands of stored reference spectra to identify unknown substances. Within seconds, the detected chemical is identified and its name and properties displayed.

### Affordable, Compact, High Performance

The **Handheld Raman** provides the same performance as other handheld Raman spectrometers proposed for homeland security or on-site chemical identification but costs much less.

### Wide Chemical Coverage

The included software will search a database of more than 10,000 chemicals to find a match within a few seconds after data acquisition.

Specialized chemical databases are sold separately. Users can also create their own custom spectral libraries.

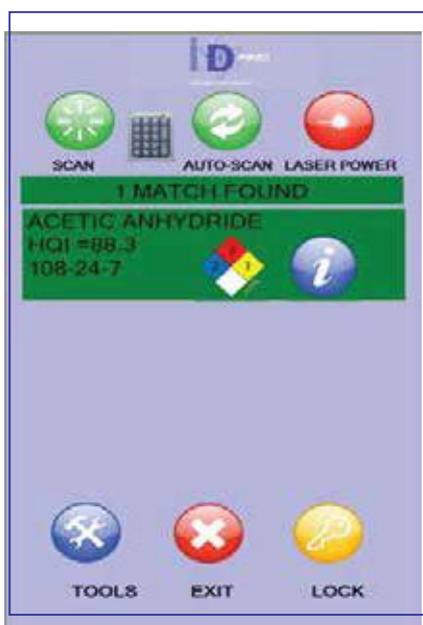
### Substance ID of Packaged Materials

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

## Software

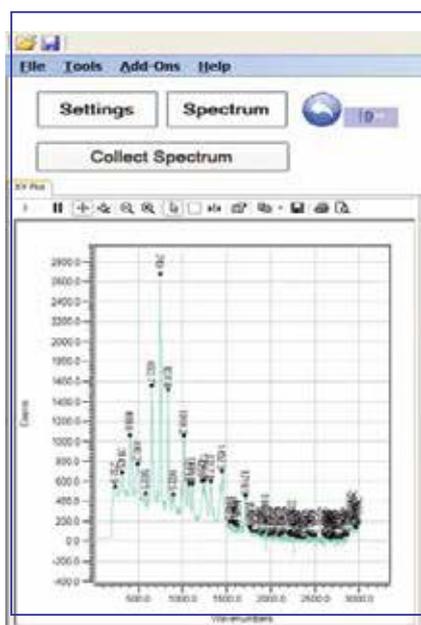
Simplified GUI for non-experts with spectral software TOOLS for technicians

### Substance Identification



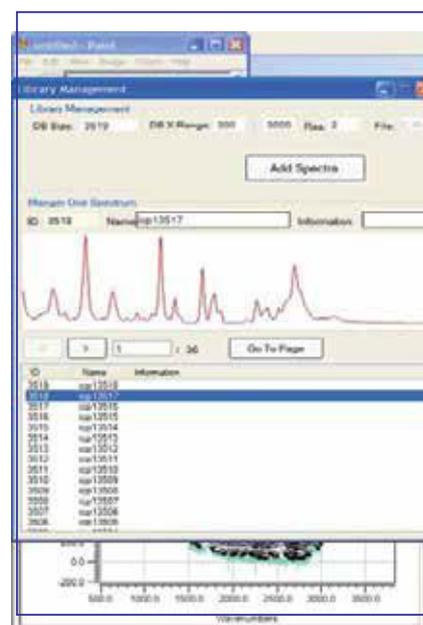
- ❖ Touch screen GUI
- ❖ Easy for non-experts
- ❖ Color coded results

### Spectral Analysis



- ❖ Plot measured spectra
- ❖ Edit saved files
- ❖ Modify scan settings

### Library Search Manager



- ❖ Plot library spectra
- ❖ Create new libraries
- ❖ Add to saved libraries

### Add-on Module Sold separately

RSIQ-CFR  
supports 21 CFR Part 11  
cGMP electronic records

### Hardware Accessories

- ❖ Storage/Travel Case
- ❖ Liquid Sample Holder (for 8 mm vials)
- ❖ Laser Safety Goggles



## Support & Services

### HPLC Servicing, Validation, Trainings and Preventive Maintenance :

- HPLC Servicing :We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.
- Trainings :We also take up preventive Maintenance to reduce downtime of HPLC's
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- Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/U SFDA norms
- Instruments :We offer instruments / Renting Services Modules like pumps, detector etc. on Rent.



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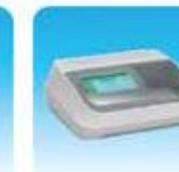
DSC/TGA



NOVA 2020 plus Automated Bio Chemistry Analyzer



HEMA 2020 Hematology Analyzer



Micro Plate Reader/Washer



Water purification system



Total Organic Carbon



Fully Automated CLIA



NOVA Basic Semi -Auto Chemistry Analyzer



PCR/Gradient PCR/ RTPCR



Blood Gas Analyzer



Random access Analyzer for immunoassay Proteins & clinical chemistry



Semen Analyzer



## ▶▶ Regulatory compliances



## ▶▶ Corporate Social Responsibility

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2. Improving quality of life by offering YOGA Training courses, Work shops / Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds, souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Comps etc.



# Analytical Foundation

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