

The ReporteR

Dispersive Raman Spectrometer

Quick ID on liquid and solid material
HazMat, Explosives and Drugs
On Site Investigation



The ReporteR was specially developed for the identification of illicit drugs and explosives as well as other suspicious solid and liquid samples

Designed to provide on-site identification on unknown substances, this „pocket“ spectrometer from Delta Nu makes it possible to identify small sample quantities in a simple and fast way.



Within some seconds the ReporteR compares the individual spectroscopic signature of the sample with the spectra stored in the library, displaying automatically the identification and the degree of correspondance. The particular design offers repetitive acquisition of spectra with superior S/N—all that in a pocket size instrument. Different sampling tools enable optimum spectrum acquisition under varying conditions.

With Raman-spectrometry the user can simply avoid direct contact with the compounds since it is possible to obtain a fingerprint spectrum even when samples are enclosed in transparent glass vials or plastic bags.

With one button pressing the results will appear on ReporteR's highly visible display. This allows non specialized users to easily use the Reporter on the field.

Field data can be analyzed at any moment by using the software and obtaining the correspondance match with the library spectra and others.



ReporteR Instrument Specifications

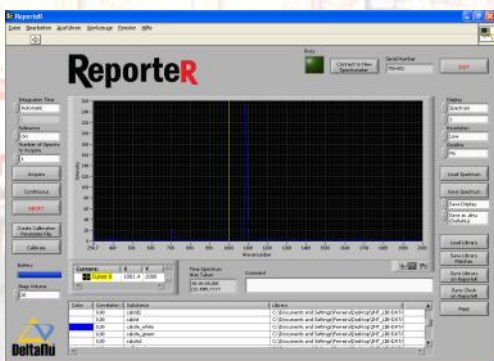
Handheld sensor specially developed for the identification of illicit drugs and explosives



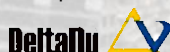
- Different accessories for liquid and solids analysis
- Highly visible LED display
- Rechargeable battery Li-Ion (4hrs)
- Micro SD card for data storage (1GB)
- USB cable for PC control / Battery charging
- System Spectral Range: 300-2000 cm^{-1}
- System Resolution: $\sim 12-17 \text{ cm}^{-1}$
- Laser: Free 785nm excitation
- Laser Power: 120 mW, $\sim 50 \text{ mW}$ at sample
- Weight: 400 gr.
- Dedicated software
- Overlaying of spectra through software
- Visualization of correlation results
- Customer's assistance 24/7
- Expandable libraries
- Libraries for different applications
- Some example entries from the law enforcement library:



Explosives/ Propellants	Nerve Agents	Narcotics / Controlled
RDX	Lewisite	Cocaine
Silver Nitrate	GB (Sarin)	Phenobarbitol (Luminal)
Ammonium bisulfate	GD (Soman)	Diaxepan (Valium)
C4	GA (Tabun)	Ephedrine
Trinitrotoluene	HD (Sulfur Mustard)	Barbituric acid
Ammonium molybdate	HN1 (Nitrogen Mustard)	Hydrocodone
Sodium Perchlorate	VX	Methamphetamine



The ReporteR is provided in cooperation with:



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