AIRSENSE ANALYTICS



LS-ID Liquids and Solids - IDentifier



Chemical



defense

On-Site Identification of Liquids and Solids: Drugs, Explosives, Illicit Narcotics and Hazardous Materials

The pocket size **LS-ID** is the smallest Raman spectrometer of its kind. Developed for fast identification of illicit narcotics, drugs, explosives as well as other suspicious samples.

LS-ID in Action

Designed to provide an on-site answer to unknown materials, this "pocket" spectrometer allows identifying very small quantities of samples in a simple and fast way.

Provides safety beyond defined target gases by alarming on hazardous concentrations.

Seconds for your Life

Within few seconds the **LS-ID** compares the individual spectroscopic signature of the sample with the spectra stored in the library, displaying automatically the identified compound and the degree of correspondence.

The particular design of the **LS-ID** offers an optimal repetitive spectra acquisition.

Smart Detection

To improve the measurement of samples there are three different sampling tools available which enable optimum spectrum acquisition under varying conditions.







more materials, but lowers the spectral resolution.



ORS maintains the small spot-size high resolution, and samples more material



Without needing to expose oneself to a direct contact with the compounds, the user can obtain an enhanced fingerprint spectrum from enclosed substances in most transparent plastic sachets or glass vials using one of the three optical collection attachments.

Advantages

An easy design and a simple menu offers the possibility of viewing the taken spectrum prior to the identification. The clear advantage is that the user may optimize the sampling and therefore also improves the identification results.

Collected field data can be analyzed at any moment using the dedicated software. Besides full instrument control and calibration, the software also allows comparing the collected spectrum with other library entries, overlapping different spectra and issuing automatic reports.



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Technical Data

Instrument specifications handheld spectrometer designed for the identification of drugs, illicit narcotics and explosives

Product Description

- Raman Spectral Range: 400 to 2300 cm-1
- Laser Output Power*: 70mW at sample, adjustable
- Display: 2.8" OLED Resistive Touch Screen
- Sampling: ORS
- Sampling Method: Vials or Point & Shoot
- Size (H x W x D): 9,14 cm x 7,11 cm x 3,81 cm
- System weight: 330 g
- Power: 2 AA Batteries
- Resolution: 14 16 cm⁻¹
- MIL-STD-810G and IP67
- * Class 3B Laser Product

Features

- Orbital Raster Scanning (ORS)
- Highly visible OLED touch screen
- Ruggedized handheld footprint
- Extended operational time

Operating temperature range

-20°C to +40°C







Three Pos. Point and Shoot Adapter

Vial Sampler

Calibration Standard

Some example from the law enforcement library

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