

HandyRam™ II RAMAN Spectrometer

Pocket-sized identifier of narcotics, explosives & toxic chemicals

This Raman handheld analyzer identifies illicit narcotics, controlled drugs, explosives materials, pharmaceutical ingredients and a wide range of unknown substances. Thousands of compounds are available in FFI's spectral libraries. It also analyzes and reports the components of mixtures.

HandyRam™ II is compact, ruggedized and yet incredibly powerful. It analyzes thousands of explosives, narcotics and toxic chemicals (depending on libraries installed). Laser power is adjustable and there is a programmable acquisition delay for measuring energetic materials. HandyRam™ II features a durable and waterproof construction yet can also be connected to a PC for detailed spectral analysis, library management and multiple instrument administration.

HandyRam™ II has tactile buttons for easy use while wearing gloves.

Accessories available: pouch, shoulder strap, USB cable, laser aperture cap with polystyrene target, sample vials, point-and-shoot adapter, vial holder, 90° angle adapter, attachment point, connection kit ethernet and WIFI, AC Adapter 5 VDC/1 A USB



SERS Kit (Surface Enhanced Raman Spectroscopy)

Quick identification of difficult substances: Heroin - Fentanyl

The SERS kit attaches to HandyRam™ II enhancing the capability to identify dark colored substances or mixtures with very low concentrations. The device is capable of detecting parts-per-million (ppm) levels of "street quality" samples of e.g. heroin, fentanyl and fentanyl derivatives. The SERS kit is based on patent pending technology used together with disposable SERS surfaces (SERS disposables).



SPECIFICATIONS:

Battery & Operating Time	Rechargeable Li ion battery (transportable by air) >4 hours operating time from full charge
Weight & Size	650 gm (1.4 lb); 15.8 cm x 10.1 cm x 2.9 cm (6.2" x 4.0" x 1.1")
Environmental	IP67; Operating -20C to +50C, Storage: -30C to +50C; MIL-STD-810G
Display	3.5" transmissive color TFT with LED backlighting; USB: mini-USB
Laser Power	Max 300mW - adjustable
Wavenumber Range & Resolution	Range: 400 cm ⁻¹ to 2300 cm ⁻¹ Resolution: 10 cm ⁻¹
Analysis Time	As little as 10 seconds but not longer than 5 minutes.
Spectral libraries & Data Output	Various libraries available: narcotics, explosives, etc. - Data Output: Text; .txt, .csv, .jcamp
Interface	Mini USB
Calibration Standard	ASTM 1840 Raman Frequency Shift

Applications:

Narcotics Identification • Counterfeit Pharmaceuticals • Forensics • Site Exploitation • Material Quality Control

Approvals & Certifications:

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No. HRAM2..... HandyRam™ II RAMAN Spectrometer Call for Price

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