

## HandyRam™ II RAMAN Spectrometer

### ***Pocket-sized identifier of narcotics, explosives & toxic chemicals***

This incredibly small 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 a compact, ruggedized Raman spectrometer that is incredibly powerful. It is able to analyze thousands of explosives, narcotics and toxic chemicals in seconds. Laser power is adjustable and use programmable acquisition delay when measuring energetic materials. HandyRam™ II features a durable and waterproof construction yet can also be connected to a PC for detailed spectral analysis, library and record management.

HandyRam™ II has tactile buttons for operation designed for 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



### SPECIFICATIONS:

Battery	Rechargeable Li ion battery (transportable by air)
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
Laser Power	Max 300mW - adjustable
Wavenumber 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:

Customs & Border Protection, Narcotics Identification, Counterfeit Pharmaceuticals, Military Intelligence, Forensics, Site Exploitation, Material Quality Control

### Approvals & Certifications:

EN 60825-1:2007 Class 3B, EN 61000-6-3:2007, AS/NZS CISPR 22, EN 61000-6-1-6-1:2007, EN 61000-4-2, -3, EN 60950-1:2006-05-29 + A1/A2/A11/AC1, EN 60950-22:2006-06-19 + C1/A11/A11C1, EN 61010-1:2010 (Third Edition), Directive 2012/19/EU (WEEE), Directive 2011/65/EU (RoHS), IEC 60529 IP67, MIL-STD-810G 514.6 (vibration), MIL-STD-810G 516.6 (functional shock)

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

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