

# RAMAN SPECTROMETER HANDYRAM™ II



Pocket-sized identifier of :

- Narcotics
- Explosives
- Toxic chemicals

## RAMAN SPECTROMETER HANDYRAM™ II

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 the 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 include: 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

### TECHNICAL DATA

Battery : Rechargeable Li ion battery (transportable by air)

Weight & Size : 650 g (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 +40C, Storage: -30C to +50C, MIL-STD-810G

Display : 3.5" transmissive color TFT with LED backlighting

Excitation wavelength : 785 nm, Stability <0.01 nm, Linewidth <0.1 nm

Laser Power : max 300 mW - adjustable

Wavenumber Range : 400 cm<sup>-1</sup> to 2300 cm<sup>-1</sup>

Resolution : 10 cm<sup>-1</sup>

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 & WIFI

Calibration Standard : ASTM 1840 Raman Frequency Shift

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