



RS DYNAMICS

Science for Homeland Safety

microRAMAN

- the fastest
- the most accurate
- the smallest
- the lightest
- the most robust and reliable
- the easiest to operate

... pocket RAMAN SPECTROMETER - identifier



Detectable compounds:

- explosives
- narcotics
- chemical warfare
- pharmaceutical products
- hazardous material
- food materials (additives)

RS DYNAMICS

Earth Science & Security Equipment
e-mail: info@rsdynamics.com

www.rsdynamics.com

» Technical parameters

Laser type: 785 nm semiconductor laser
 Laser output power: Fully adjustable up to 470 mW
 Detector type: Non-linear CMOS strip
 Spectral range: 200 - 2000 cm^{-1}
 Spectral resolution: 12 cm^{-1}
 Laser class: 3B
 Detection/Identification time: typically 2 seconds
 Delayed Scan: 0 - 30 seconds
 Scan time: 2 - 20 seconds
 Exposure: Automatic or manual with pre-settable scan delay
 Connectivity: WiFi, Bluetooth, USB 2.0
 Data download: External Flash Drive
 Optics: Interchangeable fix focus lenses adapters and vial holder adapter
 Screen: Color high resolution 6.5" touch screen
 IP Protection: IP67
 Weight: 650 gramm
 Size: 225 x 109 x 38 mm
 Battery: Li-Ion, 8 - 10 hours operation for one charge
 External Power Supply: 110 - 240 V AC, 100 Watts (included)
 Car charging adapter: CLA adapter (optional)
 Operating temperature range: -15 to +55 °C
 Storage temperature range: -25 to +55 °C
 Robotic Applications: WiFi remote control
 Consumables: No consumables required
 Certification: CE, ROHS

» Features

- Identifies the widest spectrum of substances in solid and/or liquid form, including explosives, narcotics, chemical warfare agents, pharmaceutical products, hazardous materials and food additives, chem residues
- More than 10 000 substance in the libraries, customer adding of unknown compounds available
- Advanced mixture identification due to sophisticated determination algorithm
- Extremely user-friendly and intuitive operation via touch-screen
- Heavy-duty robust case designed for the hardest field/military conditions
- Robotic integration includes full remote wire-less operation
- Large colour display with self-explanatory graphic output

» Environmental

- No radioactive source inside
- No toxic materials inside, No toxic consumables (no consumables at all)
- Product fully environmentally recyclable at manufacturer site

» Training

- No special operator's training and/or qualification required!

» Various types of samples tested



» Application case

