



# RS DYNAMICS<sup>®</sup>

Science for Homeland Safety

## **microRAMAN<sup>®</sup>**

- 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<sup>®</sup>**

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

[www.rsdynamics.com](http://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  $\text{cm}^{-1}$   
Spectral resolution: 12  $\text{cm}^{-1}$   
Laser class: 3B  
Detection/Identification time: typically 2 seconds  
Delayed Scan: 0 to (user defined) interval in seconds  
Scan time: 2 - 20 seconds  
Exposure: Automatic or manual with adjustable 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: IP64  
Weight: 650 g  
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 W (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 24 000 substances in the libraries
- Additional manufacturer libraries available (Optional on request)
- Extension for new substances by customer supported
- 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

