



# microRAMAN

**Handheld Raman Spectrometer**

**Precise and accurate identification  
of unknown substances**

## General overview

Technology	: Raman Spectroscopy
Sampling	: Direct contact measurement Through-barrier measurement
Sample type	: Solid, liquid, colloid, powder, mixtures
Detection limit	: In the hundreds of micrograms, at the boundary between trace and bulk!
Library	: More than 24 000 items, including Explosives, Drugs, Pharmaceuticals, NPS, CWA, TIC, HAZMAT, ...
Extension	: Operator can add new substances Operator can measure and subtract spectra of substance container



## Technical parameters

Laser type	: Class 3B semiconductor laser, wavelength 785 nm, laser power up to 470 mW, fully adjustable
Optics	: Fixed focus, two interchangeable lenses in package
Optics adapters	: Five interchangeable types, including direct sampling adapters and 2 ml vial-compatible adapters
Spectral range	: 200 to 2000 $\text{cm}^{-1}$
Resolution	: 12 $\text{cm}^{-1}$ (spectral resolution)

## Power Supply

Battery	: Li-pol battery, up to 10 hours runtime per charge
Charging	: 100 - 240 VAC wall adapter with USB-C

## Support

Training	: No special operator qualifications, skills, or training required
Remote	: Available online via the internet

## Operational

Start-up time	: Less than 1 minute
Scan time	: Typically 2 s, including identification
Exposure	: Adjustable automatically or manually, with delayed scan start
Interface	: 6.5" high-resolution touchscreen display, mechanical buttons for operation using gloves
Recording	: Built-in camera for operational report generation
Connectivity	: Wi-Fi, Bluetooth, USB 2.0
Remote control	: Available, ready for robot application

## Physical

Size	: 225 x 109 x 38 mm
Weight	: 0.65 kg
Shipping	: 3.20 kg

## Environmental

No consumables needed
Contains no toxic components
Contains no radioactive components
Fully recyclable by manufacturer

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