RM series handheld Raman spectrometer

Testing content

Including drugs, precursor chemicals, narcotic drugs, psychoactive substances, explosives and precursor chemicals, other flammable and explosive chemicals, highly toxic substances, prohibited additives, jewelry and jade, etc.

Application scenarios

By using handheld Raman spectroscopy alone, macroscopic quantities (with an area of 1mm ²) and relatively high purity substances can be directly tested on-site to obtain compositional information of the substance.

Advantages: Easy to use (one click detection), no need for pre-processing, fast speed, results can be obtained within 10 seconds. In situ, undamaged.

Combined with enhanced reagents, samples with measurable micro content

Advantages: It can detect trace amounts of prohibited items, and the minimum detection limit can be as low as ppm.

Product parameter

Model	RM785	RM1064
Size	182*88*30mm	197*90*45mm
Weight	~ 500g	~ 800g
Battery life	> 12 h	> 12 h
Excitation wavelength	785nm	1064nm
Laser power	0~500mW adjustable	0~500mW adjustable
Wavelength range	200~3200cm^{-1}	200~2500cm^{-1}
Resolution	6 ~ 8cm^{-1}	~ 10cm^{-1}
Operating temperature	-20 ~ 50℃	-20 ~ 50℃
Laser lifespan	10000 hrs	
Spot size	~100um	
Work distance	Continuously adjustable	
Network connection	WiFi，4G	
Software function	Model matching, generating reports, uploading records, etc	
Camera	Yes，12 million pixels	
Database size	> 1K	
Battery	Pluggable and can be equipped with large capacity batteries	

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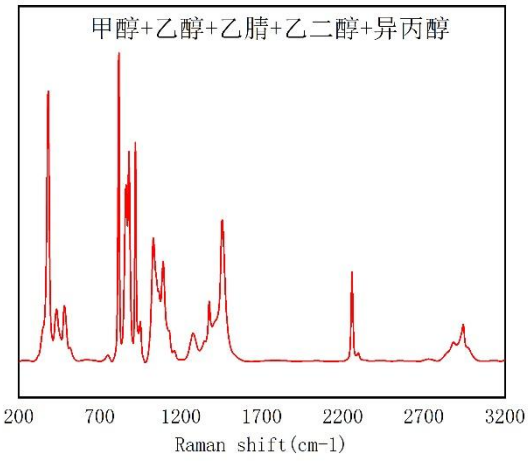
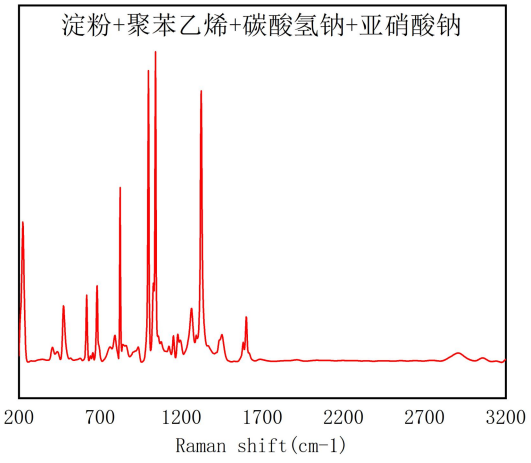
Technological Superiority

- Supports identification of 4 or more mixtures with high accuracy. Customizable mixture recognition depth
- Integrated reflective spatial optical path, high sensitivity, low aberration, long service life
- Easy to replace battery and has ultra long battery life (24-hour battery life)
- Used safe and long-life industrial 18650 batteries
- Having a complete cloud backend
- Wide band range, more accurate detection, and a wider variety of detectable substances

Identify the mixture

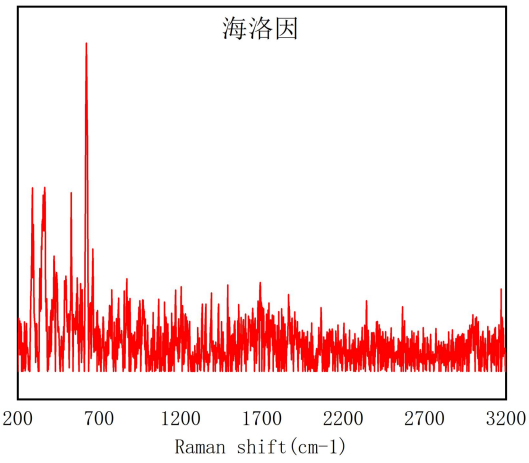
- Supports analysis of up to 5 mixture components and ratio references
- Calculation time<10s, efficient and fast inspection
- High accuracy, false positive rate<10%

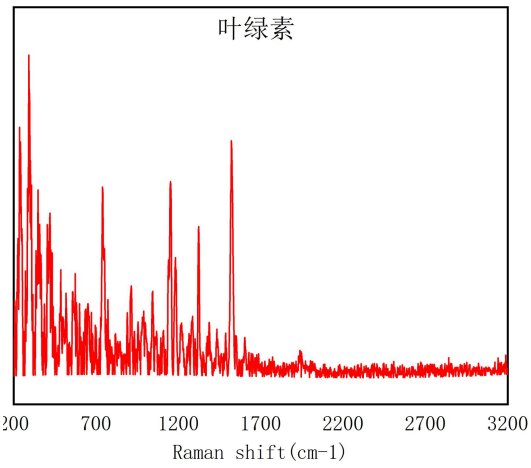




Identify high fluorescent substances

- Combined with highly sensitive hardware, algorithms are used to extract substance signals hidden in fluorescence, which can accurately identify high fluorescence substances such as heroin, ketamine, xanthan gum, cellulose, etc.





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