

Handheld Raman Spectrometer



Inspection material

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

Application scenarios

Use the handheld Raman alone to directly test the macroscopic amount (area 1mm² is enough) and the relatively high purity (content not less than 10%) substance on the spot, and the composition information of the substance can be obtained.

- Advantages: easy to use (one-key detection), no need for preprocessing, fast speed, results can be obtained within 10s. Insitu, non-destructive
- b) Disadvantages: Cannot test low-concentration samples (such as: 1% or less).

With enhanced reagents, micro-content samples can be measured

- Advantages: Micro-content of contraband can be measured, and the minimum detection limit can be as low as ppm.
- b) Disadvantages: sampling and simple pre-processing are required, which takes a long time (within 10 minutes), and the testers need relatively more training to master the test skills.

Specification

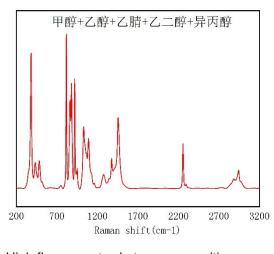
Model	785 Model	1064 Model
Size	182*88*30mm	197*90*45mm
Weight	~ 500g	~ 800g
Wavelength	785nm	1064nm
Output Power	0~500mW tunable	
Wave Number	200 ~ 3200cm ⁻¹	200 ~ 2500cm ⁻¹
Resolution	6 ~ 8cm ⁻¹	~10cm ⁻¹
Working temperature	-20 ∼ 50°C	0 ~ 40°C
Spot size	~100um	
laser lifetime	10000hr	
Batter life	>12 hours	
Working distance	Tunable	
Connection	WiFi,4G	
Data storage	>1k	
Picture resolution	1200Mega Pixel	
Software	Real-time result & testing report etc	

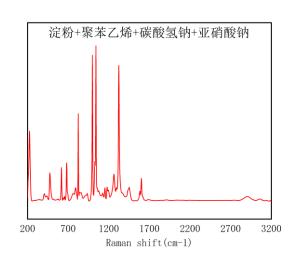
Technical advantages

- It supports the identification of 4 or more mixtures with high accuracy, Customizable mixture 1. recognition depth
- 2. Integrated reflective spatial optical path, high sensitivity, small aberration, and long service life
- Easy to replace the battery and have a long battery life (24 hours battery life) 3.
- Use safe and long-life industrial 18650 batteries 4.
- 6. Support SMS alarm push
- Wide band range, more accurate detection, more types of measurable substances 7.

Mixture identification

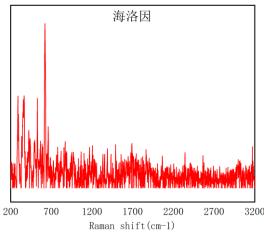
- Support up to 5 kinds of mixture composition analysis, and ratio reference
- Calculation time <10s, efficient and quick inspection
- <10% High accuracy rate, false alarm rate <10%



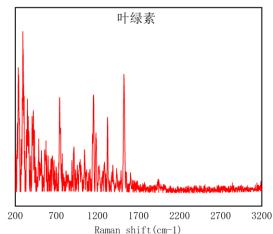


High fluorescent substance recognition

With highly sensitive hardware, algorithms are used to extract signals of substances hidden in fluorescence, which can accurately identify highly fluorescent substances such as heroin, ketamine, xanthan gum, and cellulose.



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