

(Fourth generation) ultra-miniature Raman spectrometer

ATR1600

Features:

- Non-destructive rapid detection and identification, one-click operation.
- Bluetooth 4.1 communication.
- Mobile app operation.
- Precision algorithms can detect mixtures.
- The test results can generate and export PDF reports.
- Built-in lithium battery life: 4-6 hours.
- Ultra-light weight (275 grams only) is easy to carry.
- Class IP-67 dustproof and waterproof industrial protection.

Application:

- Public security group poison.
- Detection of endangered compounds at entrances of high-speed rail, subway and BRT.
- Identification of raw ingredients in the pharmaceutical industry.
- Food safety inspection.
- Gem identification.
- Industrial material identification and process control.
- Cultural relic identification.
- Mineral screening.

Description:

ATR1600 is the latest fourth-generation ultra-miniature Raman spectroscopy system launched by Optosky. It has the characteristics of ultra-light, ultra-thin, small size, etc. The whole machine is only 275g, suitable for one-hand operation and very convenient to carry.

The Android APP attached to the ATR1600 has an excellent Raman spectral recognition algorithm. And built-in standard spectral library of up to more than 20,000 substances. Which can detect substances indiscriminately, easily identify them, and add users' own spectral data.

Optosky will provide comprehensive technical support and services, such as spectral library establishment, method and verification, IQ/OQ/PQ certification support, compatibility with CFR21, etc.

Public safety, food safety, pharmaceutical safety and rapid non-destructive testing are all between your "controls"!

ATR1600 system parameters			
operating system	APP installed on Android phones		
Laser wavelength	785 ± 0.5nm		
Wave number range	200-3000 cm-1		
Resolution	18 cm-1		
size	62*52*26.5 mm		
weight	275 g		
Interface	USB Type-C、 Bluetooth		
Instrument series and application fields	Model	Spectrum library	Application
	ATR1600	User-built database	Research field
	ATR1600DH	<ul style="list-style-type: none"> ● Drugs: heroin, methamphetamine, cocaine, ketamine, etc. ● Easy to poison: ephedrine, trichloromethane, ether, etc. ● Explosives: TNT, RDX, TATP, ammonium nitrate, etc. ● Dangerous chemicals: sulfuric acid, gasoline, nitric acid, toluene, etc. ● Food safety: illegal food additives, pesticide residues, etc. 	Public security, customs, subway, court, prison, public places, Security check
	ATR1600PH	Identification of raw ingredients for the production of drugs, etc.	pharmaceutical factories,
	ATR1600GM	Jewelry jade: diamonds, onyx, emeralds, etc.	jewelry identification,
	ATR1600IN	Chemicals, plastics, rubber, polymers, synthetics, etc.	industrial applications
Report output	support the export of multi-information detection reports (detection results, spectral information, photographic evidence),		
Length of work	4-6 h		
Charging method	USB Type-C		
Operating temperature	-20 – 50 °C		

Optosky-Raman spectrometer series



Advantages of Raman spectrometer

Accuracy

Raman spectroscopy is the "fingerprint spectrum" of matter, and the analysis of material composition is absolutely accurate.

Fast

it only takes a few seconds.

No damage

the sample will not be damaged.

Cheap

as long as it is charged, no other consumables are required.

