

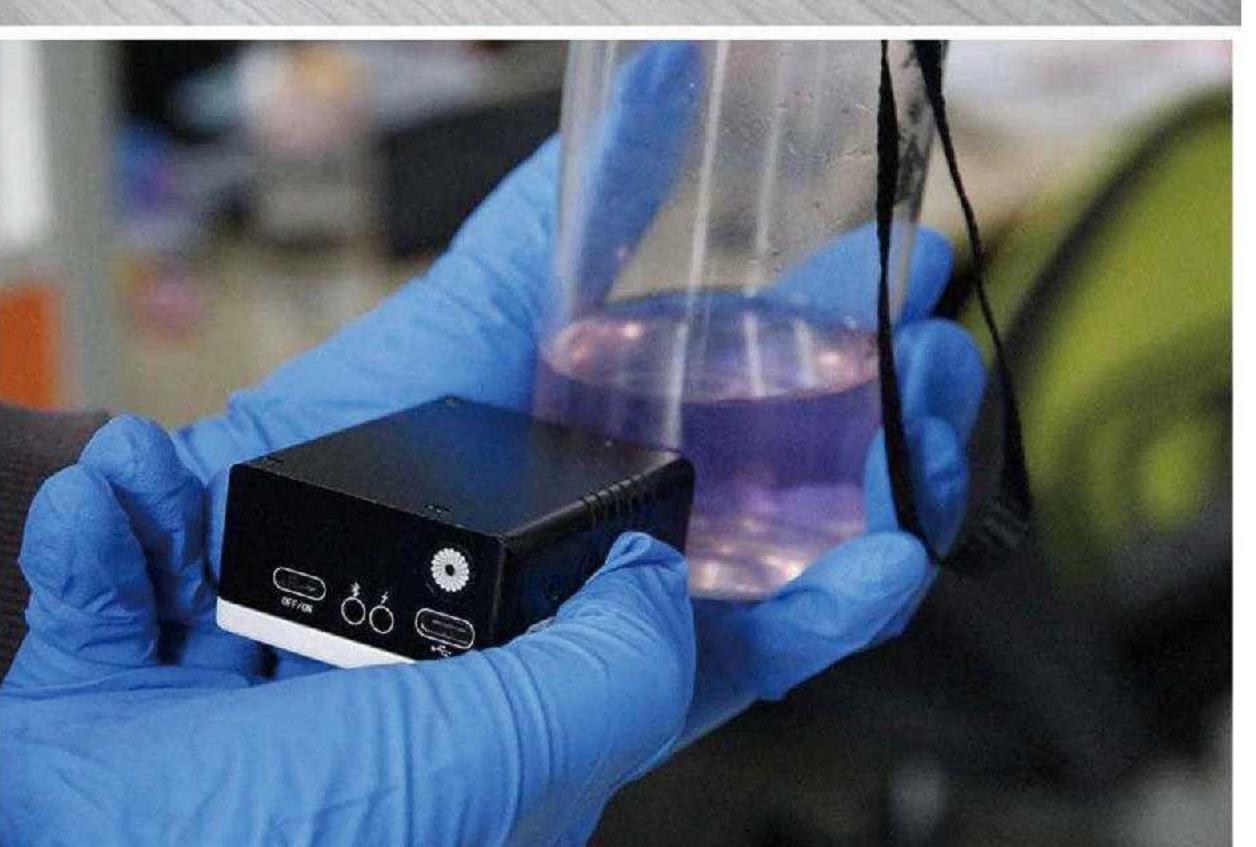
(Fourth generation) ultra-miniatrie Raman spectrometer DTR1600

Features

- Non-destructive rapid detection and identification, one-click operation.
- Bluetooth41 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

- Police arrest drug dealer.
- Detection of endangered compounds at entrances of high-speed rail, subway and BRT.
- ldentification of raw ingredients in the pharmaceutical industry.
- Food safety inspection.
- <a>Gem identification.
- Industrial material identification and process control.
- Cultural relic identification. Mineral screening.

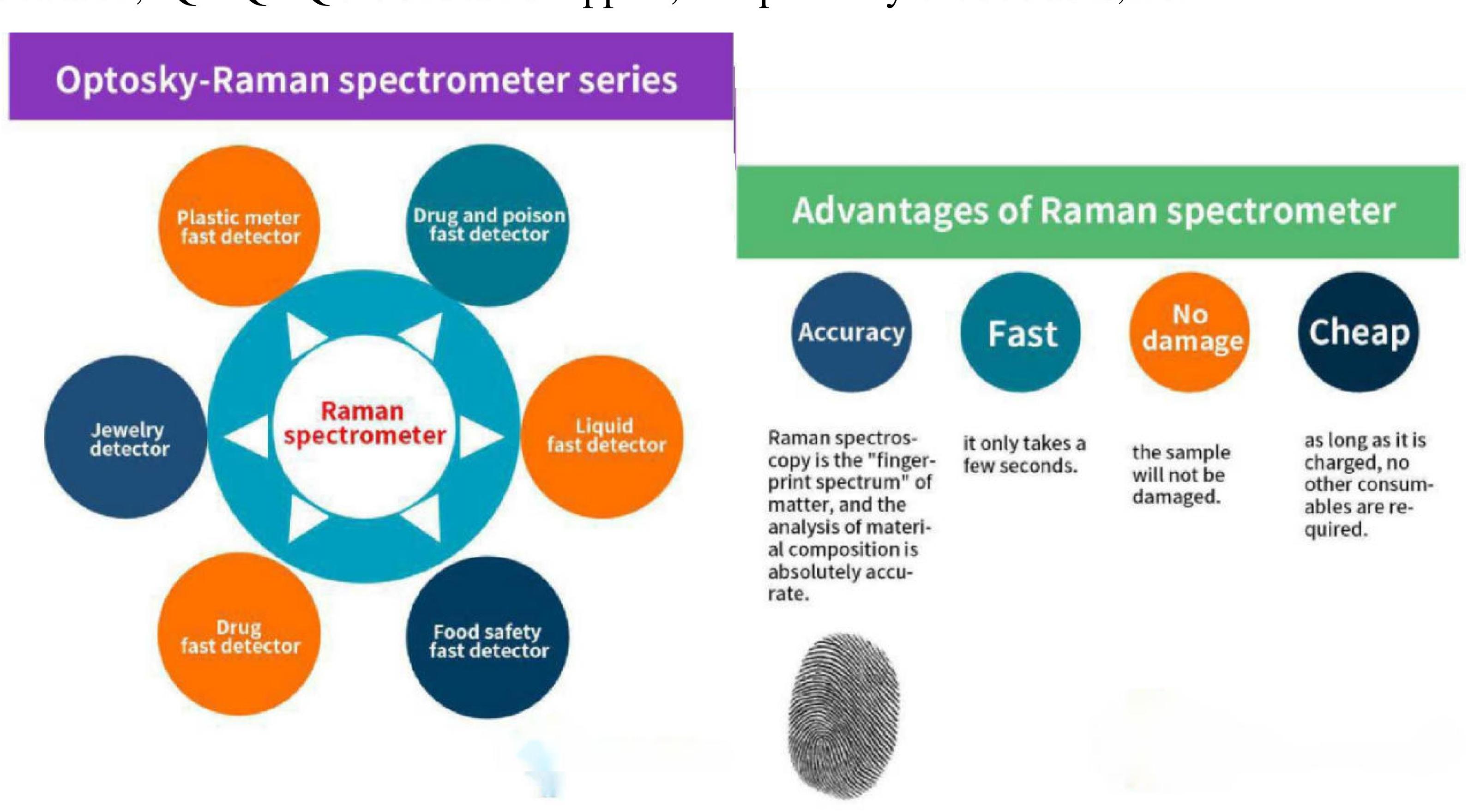


Description:

▶ DTR1600 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 DTR1600 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"

Product data information is current as of publication data. Products conform to specifications per the terms of Drawell Standard warranty.





Parameters

DTR1600	system parameters		
Operating system		APP installed onAndroid phones	
Laser wavelength		785 ± 0.5 nm	
Wave number range		200-3000 cm-1	
Resolution		18 cm-1	
Size		62*52*26.5 mm	
Weight		275 g	
Interface		USB Type-Cx Bluetooth	
	Model	Spectrum library	Application
Instrument series and application fields	DTR1600	User-built database	Research field
	DTR1600DH	 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
	DTR1600PH	Identification of raw ingredients for the production of drugs, etc.	pharmaceutical factories,
	DTR1600GM	Jewelry jade:diamonds,onyx, emeralds, etc.	Jewelry identification,
	DTR1600IN	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		4-6h	
Charging method		USB Type-C	
Operating temperature		-20 - 50°C	

DTR1600 Measured Spectrum

