

## 1064nm Handheld Raman

## ATR6600

### Feature:

- 1064nm Excitation , Reduced Risk of Fluorescence Interference;
- Non-Destructive, Fast Detect & Identify, One-touch Operation;
- Advanced algorithm, mixture detection;
- HD 5.5" capacitive touch screen, smooth operation system;
- 13-mega Camera;
- Barcode & QR scan
- Precision GPS positioning;
- Multiple modes of 4G, GPS, GPRS, Bluetooth, WIFI
- Self-Built Spectral Library
- Test results report export pdf
- Built-in Li battery , standby times > 72hrs
- Lightweight (1150g) , easy-to-take
- IP-68

### Application:

- Public Safety; Food Safety;
- Dangerous Chemicals Detect at High Speed Train, Metro Entrance
- APIs & Pharmaceutical Excipients;
- Gemstones & Materials ID, Mineral sorting
- Experimental Research;

### Description:

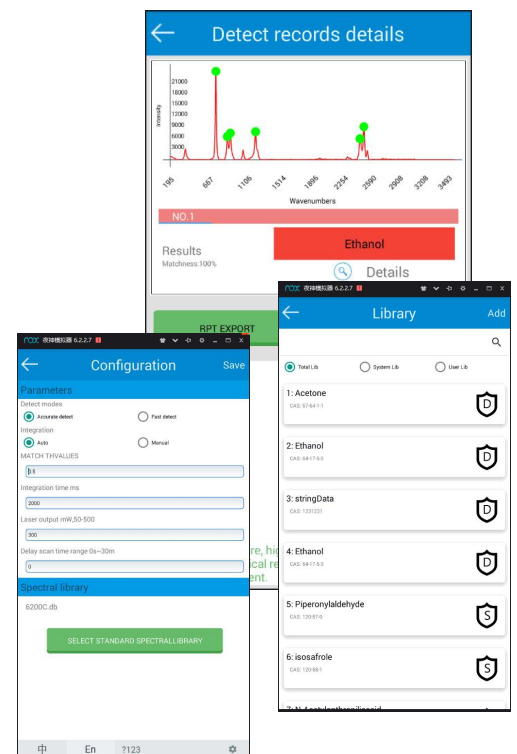
ATR6600 is a set of 1064nm handheld Raman analyzer that is excel at fluorescence resistance suit to high fluorescence materials detection.

With compact size, lightweight (1150g), and easy-to-held, it can be widely applied to industries of customs, public safety, lab, plant, warehouse, deck etc. It can fast detect drugs, precursor chemicals, explosives, gemstones, raw materials, and also fast identify additives, residues of pesticide & veterinary drugs.

Excellent spectral identification algorithm are embedded in Handheld Raman spectrometers to easily identify substance, and enable users to add their own spectral data. It employs Android system , simple interface , 5.5" high definition screen,13-mega camera taking evidence pictures in the field, multiple modes of inbuilt WIFI, Bluetooth, GPS etc.

Optosky provides full technical support and services, including spectral library building, method & verification, **IQ/OQ/PQ validation , 21CFR PART 11** etc.

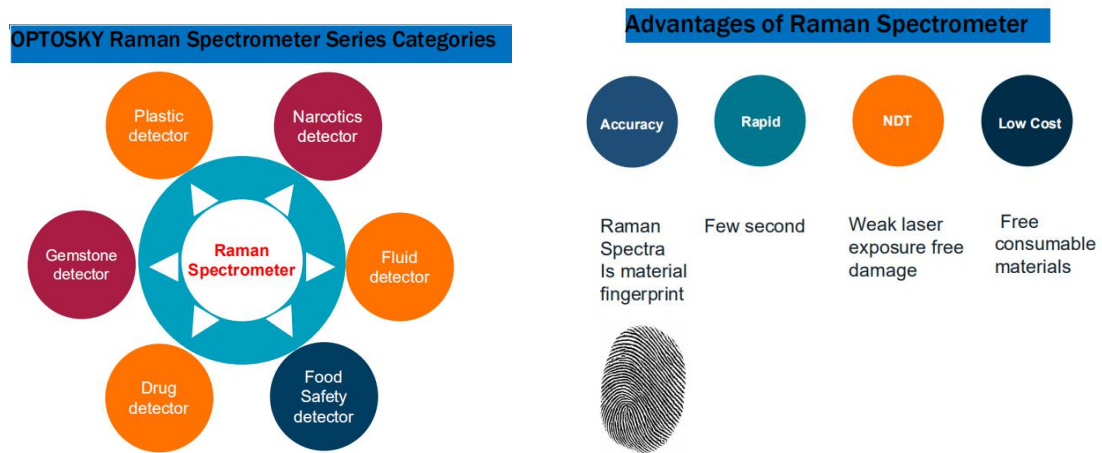
**Intelligent Mobile Set Available in Your Hand!**



ATR6600 System			
Feature	Excel at Fluorescence Resistance		
Operate System	Android		
Excitation Wavelength	1064 ± 0.5nm		
Wavenumber Range	200-2500 cm-1		
Resolution	8-12cm-1		
Touch Screen	5.5", 1920×1080, Multi-point touch control		
Detector	TE cooled InGaAs		
Size	220×110×45mm		
Weight	1150g		
Interface	WIFI, USB Type-C, Bluetooth, GSM		
Model & Library	Item	Spectral Library	Application
	ATR6600	Self-built Spectral Library	Scientific Research
	ATR6600DH	Narcotics drugs: Heroin, Cocaine, Metamfetamine, Ketamin... Precursor: (-)-ephedrine, Chloroform, Diethyl ether... Explosives: TNT,RDX,TATP, Ammonium nitrate... Hazardous chemicals: Sulfate, Gasoline, Nitric acid, Toluene... Food Safety: Illegal food additives, residues of pesticide, veterinary drugs	Police Customs Metro Court Prison Public Safety
	ATR6600PH	APIs, excipients...	Pharmaceutical Factory
	ATR6600GM	Gemstones: Diamond, Agate, Emerald...	Gemstones
	ATR6600IN	Chemicals, Plastics, Rubber, Polymer, Synthetics	Industrial Application
	ATR6600FTN	REMIFENTANIL, Brifentanil, Lofentanil, Trefentanil, Ocfentanil,Carfentanil, alfentanil, Mirfentanil, D5 FENTANYL-D5, ALFENTANIL HYDROCHLORIDE, SUFENTANIL CITRATE, Fentanyl Citrate, over 40 categories	Public Station
Export Report	Test results report export pdf, txt including detect result, spectral info, evident pictures		
Battery	standby times >72hrs		
Charging Type	USB Type-C		
Operating	-20 – 50 °C		

Temperature	
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## 1 Application & Advantages



1 Raman Application & Advantages

## 2 Optosky Raman Technology Milestones

### Raman Spectrometer Technology

- Focus on developing Raman spectrometer for 20-year.
- China National Standards drafter of Raman spectrometer
- In 2016 launch the first generation handheld Raman spectrometer,
- In 2017 launch the dual-band Raman spectrometer
- In 2020, launch the triple-band Raman microscope
- In 2021, launch the quadriband scientific-grade Raman microscope
- ISO, CE, FDA Approval, Police Approval, API Approval
- Originate in Chinese Academic of Science University and Xiamen University



2 Optosky Raman Spectrometer Milestones

## 3 Raman Spectrometers Family

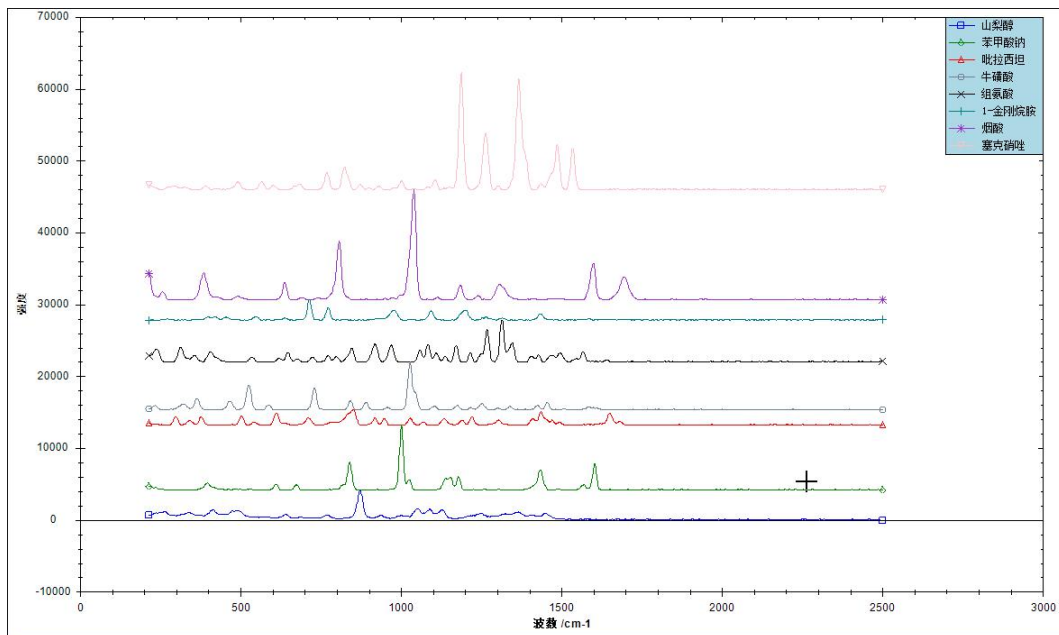


**Raman Spectrometer Series**

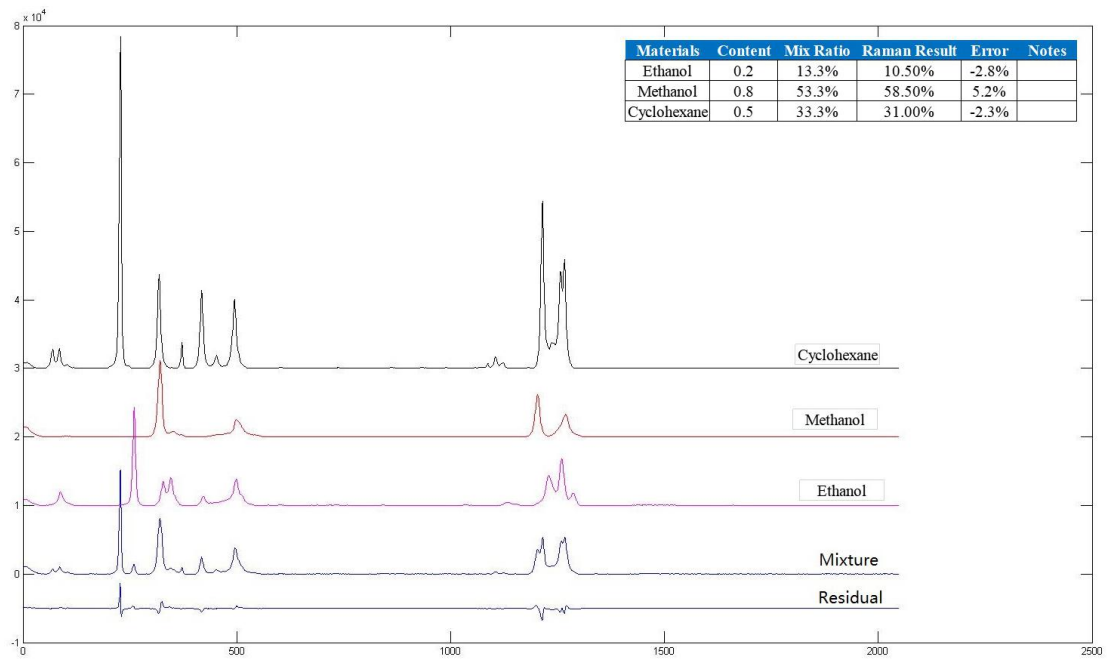
- Scientific-Grade Raman Microscope Quadriband ATR8800 Series
- Triband Raman Microscope ATR8500 Series Confocal Raman Microscope
- Raman Microscope ATR8300 Series
- High Troughput Raman ATR8000
- ATR3110
- ATR3000
- ATR3000FD
- ATR 3200
- Portable or Benchtop Raman
- ATR6600 Pro Super Speed 1064nm
- ATR6600 1064nm
- ATR6500CH 785nm
- ATR6500CH 532nm
- ATR6500 785nm
- Handheld Raman Analyzer
- Mini-Raman ATR1600
- Teaching Raman ATR1200
- Mini portable Raman ATR2500
- Underwater Raman ATR3700

3 Raman Models Selection

## 4 ATR6600 Spectra Example



4 ATR6600 measured Spectra of Sorbitol, Sodium Benzoate, Piracetam, Taurine, Histidine, Amantadine, Niacin, Secnidazole



5 ATR6600 Mixture Spectra