

5G Handheld Raman Analyzer

ATR6500CH

Features:

- Replaceable Battery for unlimited life span;
- Various toxic and hazardous gases Alarm;
- Built-in altitude sensor read out;
- Non-Destructive, Fast Detect & Identify, One-touch Operation;
- Advanced algorithm, mixture detection;
- HD 5.5" capacitive touch screen, smooth operation system;
- double cameras of 13-mega plus 8-mega;
- 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 continuous operation 4-6hrs
- Lightweight (480g), easy-to-take
- IP-66 compliant

Application:

- Public Safety; Food Safety;
- Hazardous detect at High Speed Train, Metro Entrance
- APIs ,Pharmaceutical raw materials, excipients;
- Gemstones & Materials ID, Mineral sorting
- Experimental Research;
- Antique authentication;
- Minerals Sorting;

Description:

ATR6500CH is upgraded on the basis of ATR6500, and not only reserve the advantages of super thin, ultra-light, fast ID, but also make it rechargeable battery for field detection extending battery life. The toxic and hazardous gases alarm and readout altitude sensor.

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, double cameras of 13-mega plus 8-mega 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 etc.

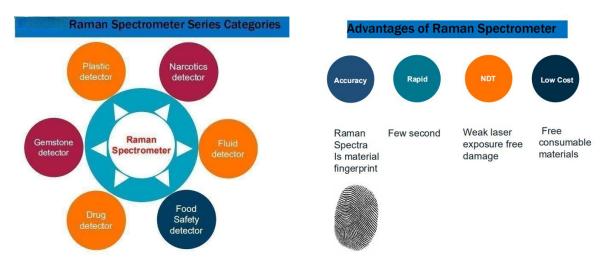
Intelligent Mobile Available in Your Palm!



1 Performance

ATR6500CH System Parameters				
Operative System		Android		
Excitation Wav	elength	$785 \pm 0.5 \text{nm}$		
Wavenumber	Range	200-4000 cm-1		
Resolutio	n	10 cm-1		
Touch Scre	een	5.5", 1920×1080, Multi-Touch		
Size		172×85×30 mm		
Weight		<480g		
Interface		WIFI, USB Type-C, Bluetooth, GSM		
Model Series& Application	Model	Library	Application	
	ATR6500	Self-Built Database	Scientific Research	
	ATR6500DH	 Pharmaceutical drugs:Heroin, Cocaine, Metamfetamine, Ketamin Precursor: (-)-ephedrine, Chloroform, Diethyl ether Explosives: TNT,RDX,TATP, Ammonium nitrate Hazmat: sulfate, gasoline, nitric acid, Toluene Food safety: Illegal food additives, residues of pesticide, veterinary drugs 	Police Customs Metro Court Prison Public Safety	
	ATR6500PH	Pharmaceutical raw materials, APIs, excipients	Pharmaceutical Factory	
	ATR6500GM	Gemstones of Diamond, Agate, Emerald	Gemstones	
	ATR6500IN	Chemical products, Plastics, Rubber, Polymer, Compound Etc.	Industrial Application	
Export Report	Export reports pdf, csv, txt including detect result, spectral info, evident pictures			
Battery	4-6 hrs, replaceable battery for unlimited battery life			
Other Functions	Readout Altitude, Toxic and hazardous gases warning			
Charging Type	USB Type-C			
Operating Temperature	-20 − 50 °C			

2 Application & Advantages



1 Raman Application & Advantages

3 Raman Technology Milestones



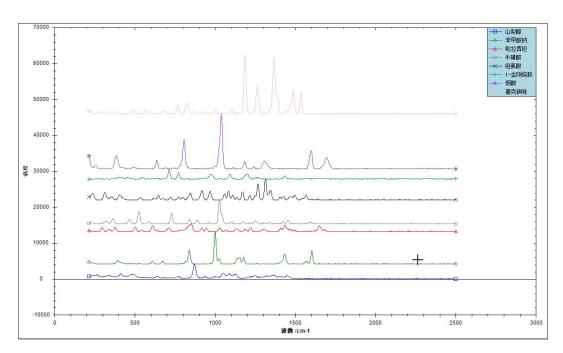
2 Raman Spectrometer Milestones

4 Raman Spectrometers Family

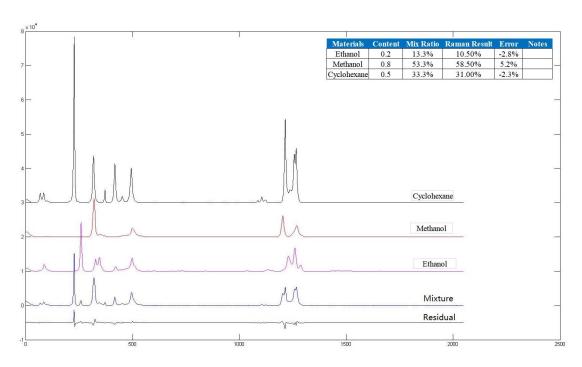


3 Raman Models Selection

5 ATR6500 Spectra Example



4 ATR6500CH measured Spectra of Sorbitol, Sodium Benzoate, Piracetam, Taurine, Histidine, Amantadine, Niacin, Secnidazole



5 ATR6500CH Mixture Spectra

6 ATR6500 Field Pictures







6 ATR6500CH pictures of narcotics ID in police station



7 ATR6500CH ceramics ID



8 ATR6500CH Pharmaceutical ID