

HRA - 3500

Handheld Raman Analyzer



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

►► Features

- 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 (450g) , easy-to-take
- IP-67 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

HRA 3500CH is upgraded on the basis of HRA 3500, 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.

ATL provides full technical support and services, including spectral library building, method & verification, IQ/OQ/PQ validation etc.

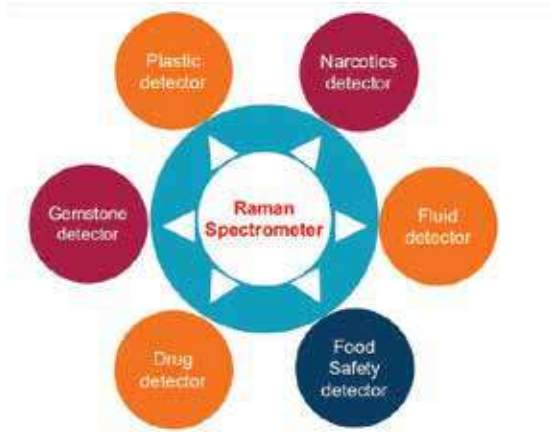
Intelligent Mobile Available in Your Palm!

►► 1 Performance

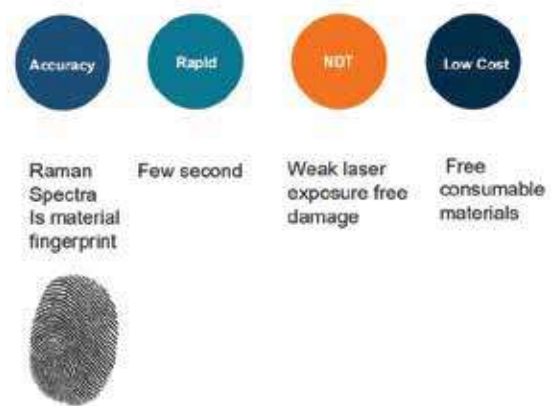
HRA 3500 System Parameters			
Operative System	Android		
Excitation Wavelength	785 ± 0.5nm		
Wavenumber Range	200-4000 cm ⁻¹		
Resolution	10 cm ⁻¹		
Touch Screen	5.5", 1920×1080, Multi-Touch		
Size	172×85×30 mm		
Weight	450g		
Interface	WIFI, USB Type-C, Bluetooth, GSM		
Model with Library			Application
	HRA 3500	Self-Built Database	Scientific Research
	HRA 3500DH	Pharmaceutical drugs:Heroin, Cocaine, Metamphetamine, 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
	HRA 3500PH	Pharmaceutical raw materials, APIs, excipients...	Pharmaceutical Factory
	HRA 3500GM	Gemstones of Diamond, Agate, Emerald...	Gemstones
	HRA 3500IN	Chemical products, Plastics, Rubber, Polymer, Compound..	Industrial Application
Export Report	Reports format pdf, csv, txt of detect results, spectra, evident pictures		
Battery	4-6 hrs, replaceable battery for unlimited battery life		
Charging Type	USB Type-C		
Operating Temperature	-20 – 50 °C		

►► 2 Application & Advantages

Raman Spectrometer Series Categories



Advantages of Raman Spectrometer



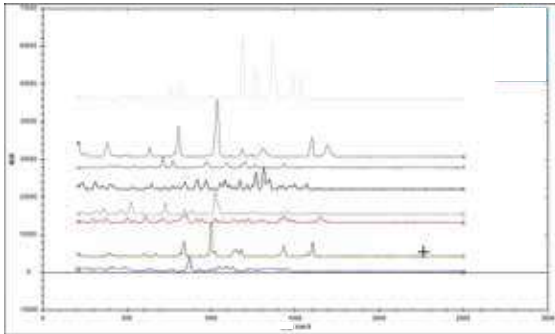
1 Raman Application & Advantages

►► 3 Raman Spectrometers Family

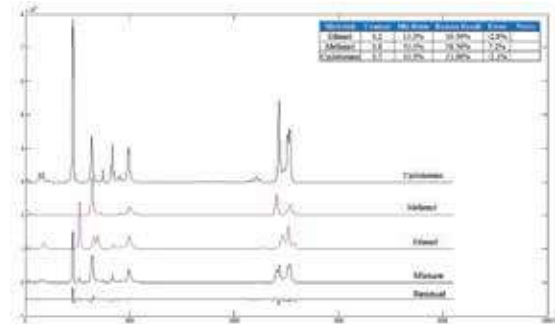


2 Raman Models Selection

►► 4 HRA 3500 Spectra Example



3 HRA 3500 measured Spectra of Sorbitol,
Sodium Benzoate, Piracetam, Taurine,
Histidine, Amantadine, Niacin, Secnidazole



4 HEA 3500 Mixture Spectra

►► 5 HRA 3500 Field Pictures



5 HRA 3500 ceramics ID



6 HRA 3500 Pharmaceutical ID

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HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

Trainings :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

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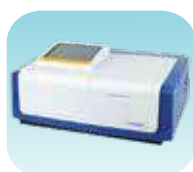
Instruments :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



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system

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