

### 4G Handheld Raman Analyzer

**ATR6500** 

#### 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:**

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!





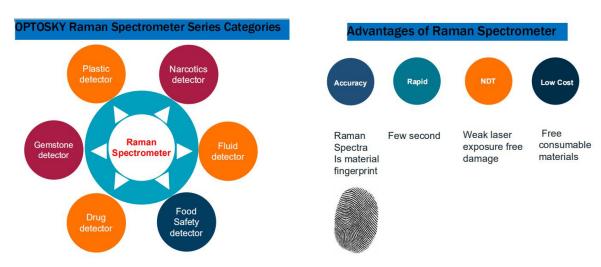


### 1 Performance

ATR6500 Syste	m Paramet	ters			
Operative System		Android			
Excitation Wavelength		$785 \pm 0.5$ nm			
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	
	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	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			

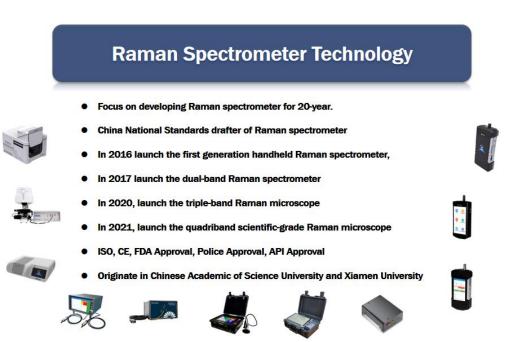


## 2 Application & Advantages



1 Raman Application & Advantages

## 3 Optosky Raman Technology Milestones



2 Optosky Raman Spectrometer Milestones



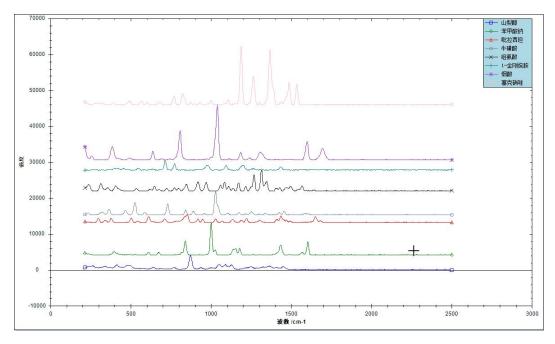


## 4 Raman Spectrometers Family



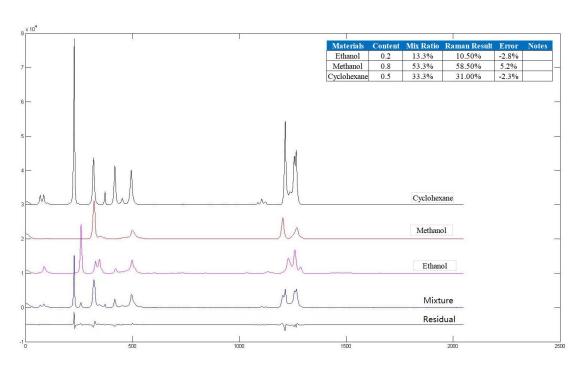
3 Raman Models Selection

# **5 ATR6500 Spectra Example**



4 ATR6500 measured Spectra of Sorbitol, Sodium Benzoate, Piracetam, Taurine, Histidine, Amantadine, Niacin, Secnidazole





5 ATR6500 Mixture Spectra

# **6 ATR6500 Field Pictures**







6 ATR6500 pictures of narcotics ID in police station





7 ATR6500 ceramics ID



8 ATR6500 Pharmaceutical ID

# 7 Company Profile

Optosky company is a first-class spectroscopy solution provider, with the headquarter locates in the 7<sup>th</sup> floor of the research institute of the Chinese Academic of Science at an area of 2500 square meter in Xiamen city where successfully held the international 9<sup>th</sup> BRICK summit in 2017. The subsidiary company locates in Wuhu city with an area of 2035 square meters.

The company founder Dr.Hongfei,Liu graduated Docter degree from the Chinese Academic of Science and postdoctoral degree from Xiamen University, by integrating both of top Universities' spectroscopy technology background into Optosky company aiming at developing the leading spectroscopy equipment in the world.

The company bases on unique technologies of Optomechatronics, Spectroscopy Analysis, Process Weak Optical and Electrical Signals, Cloud Computing, and have been developed wide products line of the competitive Raman spectroscopy instruments, micro spectrometer, hyperspectral imager, field spectroradiometer, fluorescence spectroscopy, LIBS etc. Driven by



advanced technologies and products, Optosky brand has been well-known to customers all over the world.

Optosky company base on technology innovation, market-driven direction, customer first, provides first-class products and services, and one-stop solutions to many fortune 500 companies in many industries. The company received praise from different industry companies, as well as many innovative intellectual properties, software copyright, qualification certification, and winner awards over hundred numbers.

Optosky receives top class A introduced the high-tech company to international Xiamen city, the national high-tech and new innovative technology company award. The founder Dr.Hongfei Liu receives the innovation talent award by the ministry of science and technology.

The company is currently conducting the exclusive project of major industrialization national oceanic administration with a total fund of five million us dollars. The company in charge of drafting national industry standard of VNIR and SWNIR Field Spectroradiometer, and six national standard drafters, including China National Standard Drafter for Hazmat detector based on Raman spectroscopy, China National Standard Drafter for Buoy-type Monitor eco-environment, China National Standard Drafter for water quality monitor in the unmanned boat, China National Standards drafter for online water quality monitor by spectroscopy, China National Standard Drafter for UV-absorbent measure fabrics.

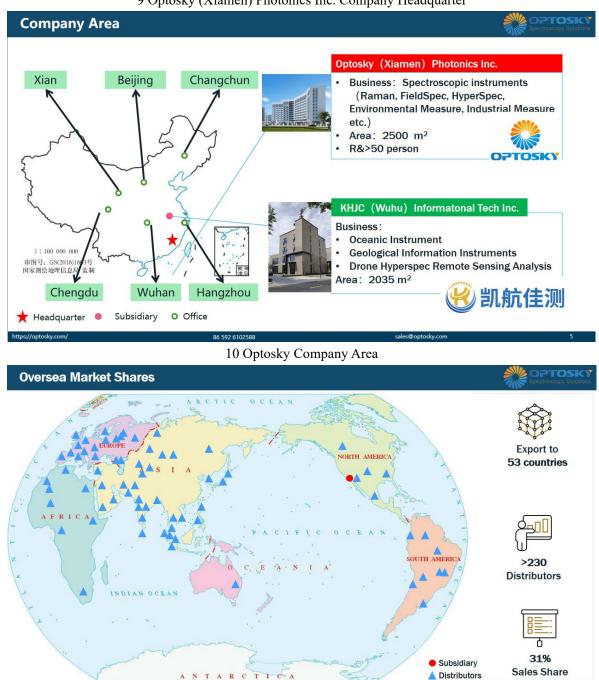
The company has over 70 IPs and over 20 innovative patents.

The company received ISO9001:2015 certification, CE certification, Police Administration Certification, FDA approval compliant, IQOQPQ compliant.





9 Optosky (Xiamen) Photonics Inc. Company Headquarter



11 Oversea Market Shares





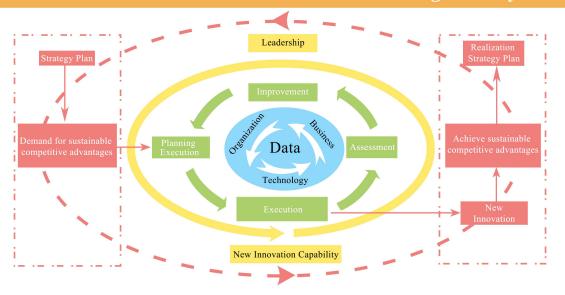
12 Optosky Chair and Draft National Standards Lists.



13 Qualification



#### **Informationization & Industrilization Fusion Management System**



14 GB/T 23001 Informationization & Industrilization Fusion Management System

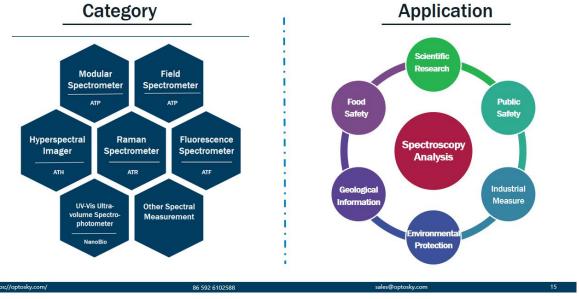


15 Optosky's Co-founder\_Dr. Hongfei Liu

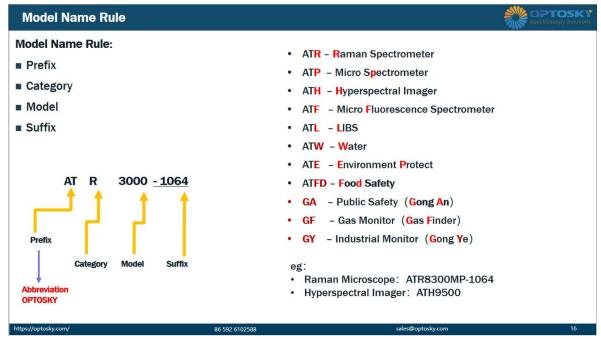


#### **Category & Application**





16 Category & Application



17 Model Name Rule

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