

### 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:**

ATR6500 is upgraded on the basis of handRam,

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!



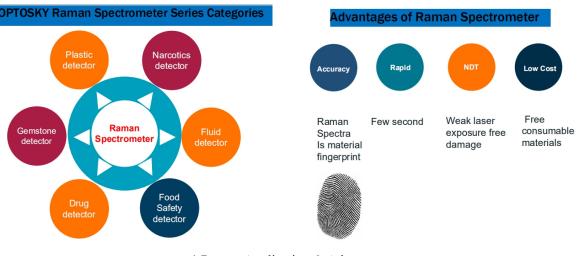


# **1** Performance

ATR6500 System Parameters					
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			
			Application		
	ATR6500	Self-Built Database	Scientific Research		
Model with Library	ATR6500DF	<ul> <li>Pharmaceutical drugs:Heroin, Cocaine,</li> <li>Metamfetamine, Ketamin</li> <li>Precursor: (-)-ephedrine, Chloroform, Diethyl ether</li> <li>Explosives: TNT,RDX,TATP, Ammonium nitrate</li> <li>Hazmat: sulfate, gasoline, nitric acid, Toluene</li> <li>Food safety: Illegal food additives, residues of</li> <li>pesticide,veterinary drugs</li> </ul>	Police Customs Metro Court Prison Public Safety		
	ATR6500PH	Pharmaceutical raw materials, APIs, excipients	Pharmaceutical Factory		
	ATR6500GM		Gemstones		
	ATR6500IN	Chemical products, Plastics, Rubber, Polymer, Compound	Industrial Application		
Export Report	Reports format pdf, csv, txt of detect results, spectra, evident pictures				
Battery	replaceable battery for unlimited battery life, standby times >72hrs;				
Charging Type	USB Type-C				
Operating Temperature	-20 – 50 °C				



# 2 Application & Advantages



1 Raman Application & Advantages

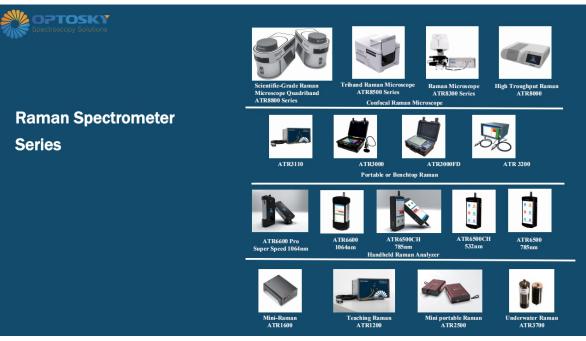
## **3 Optosky Raman Technology Milestones**



2 Optosky Raman Spectrometer Milestones

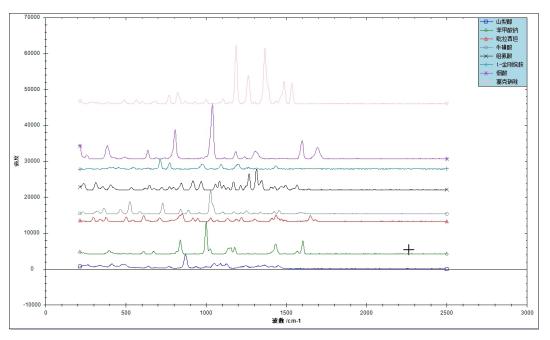


# **4** Raman Spectrometers Family



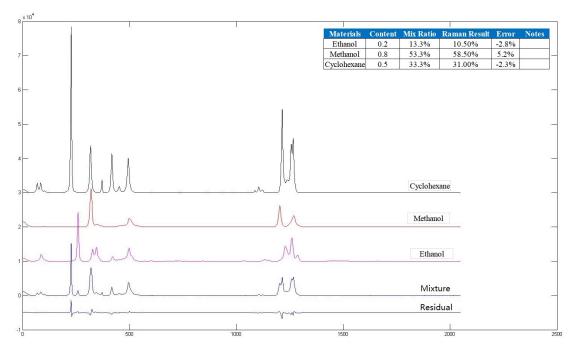
### 3 Raman Models Selection

# 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

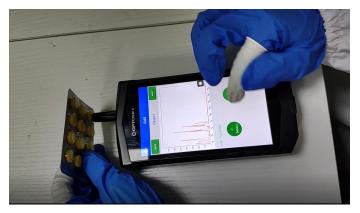


6 ATR6500 pictures of narcotics ID in police station





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.

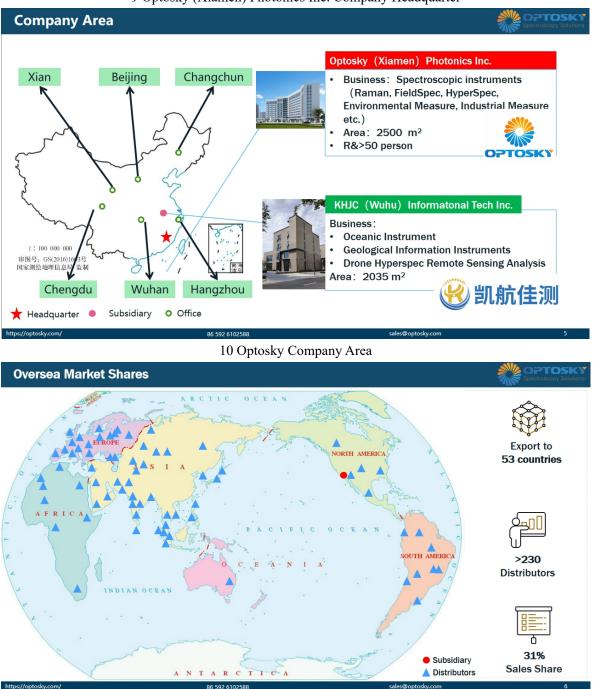
The company has over 70 IPs and over 20 innovative patents.

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



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





### 9 Optosky (Xiamen) Photonics Inc. Company Headquarter

11 Oversea Market Shares



#### **Μ ΟΡΤΟ**ΣΚΙ **Optosky Chair and Draft National Standards Lists: Chair Drafter** National Industry Standard Of VNIR & SWNIR China National Standard China National Standard **Field Spectroradiometer** Drafter for Buoy-type Monitor Drafter for water quality eco-environment monitor in unmanned boat **China National China National** Standard Standard Drafter for China National Standards Hazmat detector Drafter for drafter for online water China National Standard Drafter for UV-absorbent measure fabrics based on Raman quality monitor by Raman spectroscopy spectroscopy spectrometer https://optosky.com/ 86 592 6102588

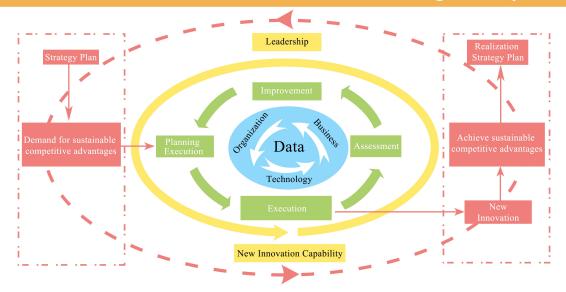
12 Optosky Chair and Draft National Standards Lists.



13 Qualification



### Informationization & Industrilization Fusion Management System



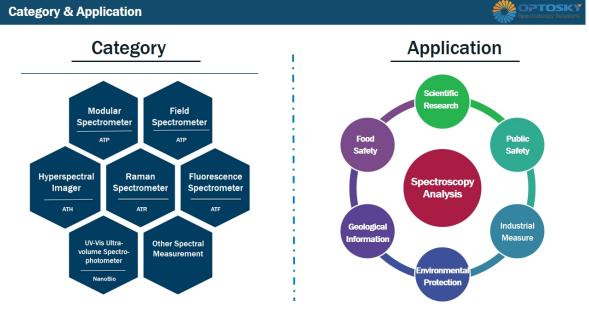
### 14 GB/T 23001\_Informationization & Industrilization Fusion Management System



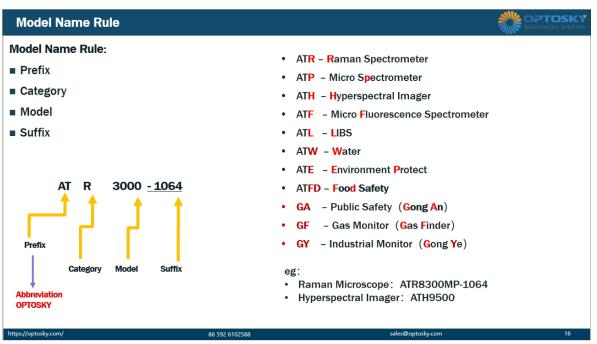
15 Optosky's Co-founder\_Dr. Hongfei Liu



https://optosk



16 Category & Application



17 Model Name Rule



# 8 Reference Lists:

()) 清華大学 Tsinghua University	レネナジ PEKING UNIVERSITY	で 一 後 見 大 等 POTCALE UNIT WARTY BEARTY	@ 厦門大學 XIAMEN UNIVERSITY
新ジン・ ZHEJIANG UNIVERSITY	→ 武漢 × 導 WCHAN UNIVERSITY	國防科學技術大学 National University of Defense Technology	<b>③</b> 中南大学
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大连理2大学 Dallan University Of Technology	(文) 東北大学 Northeastern University	中國東蒙大學 China Agricultural University	() 大夢 SICHUAN UNIVERSITY
● 東華大学	管部セン大参 South China University of Technology	使用な油大学 CIENA UNIVERSITY OF PETICILIA RELING	家中大學 Southeast UNIVERSITY