

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!

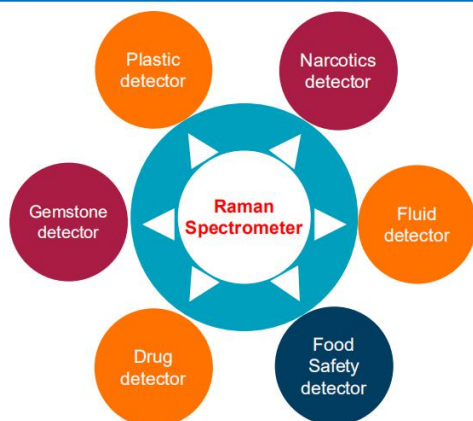


1 Performance

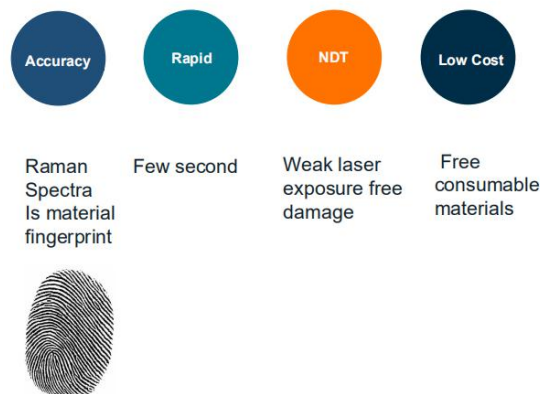
ATR6500CH System Parameters			
Operative System	Android		
Excitation Wavelength	785 ± 0.5nm		
Wavenumber Range	200-4000 cm-1		
Resolution	10 cm-1		
Touch Screen	5.5", 1920×1080, Multi-Touch		
Size	172×85×30 mm		
Weight	<480g		
Interface	WIFI, USB Type-C, Bluetooth, GSM		
Model Series& Application	Model	Library	Application
	ATR6500	Self-Built Database	Scientific Research
	ATR6500DH	<ul style="list-style-type: none"> 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

OPTOSKY Raman Spectrometer Series Categories



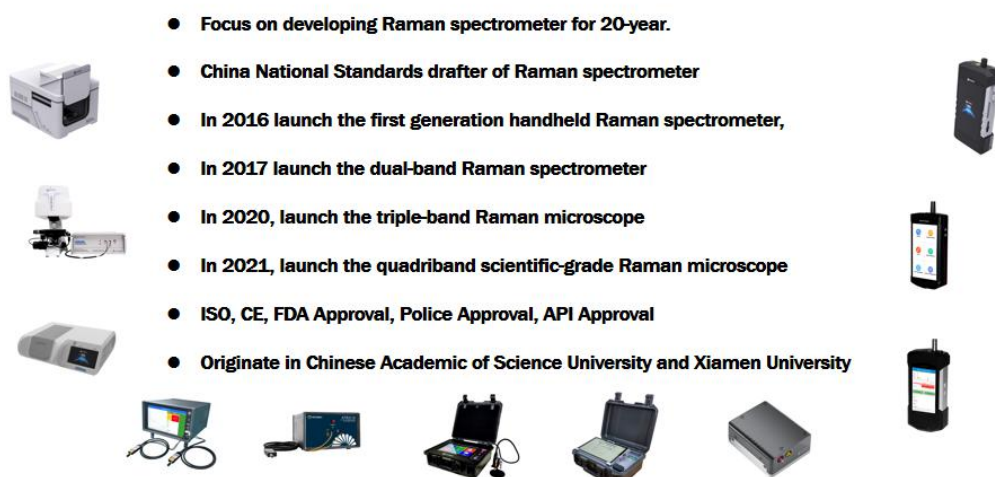
Advantages of Raman Spectrometer



1 Raman Application & Advantages

3 Optosky Raman Technology Milestones

Raman Spectrometer Technology



2 Optosky Raman Spectrometer Milestones

4 Raman Spectrometers Family

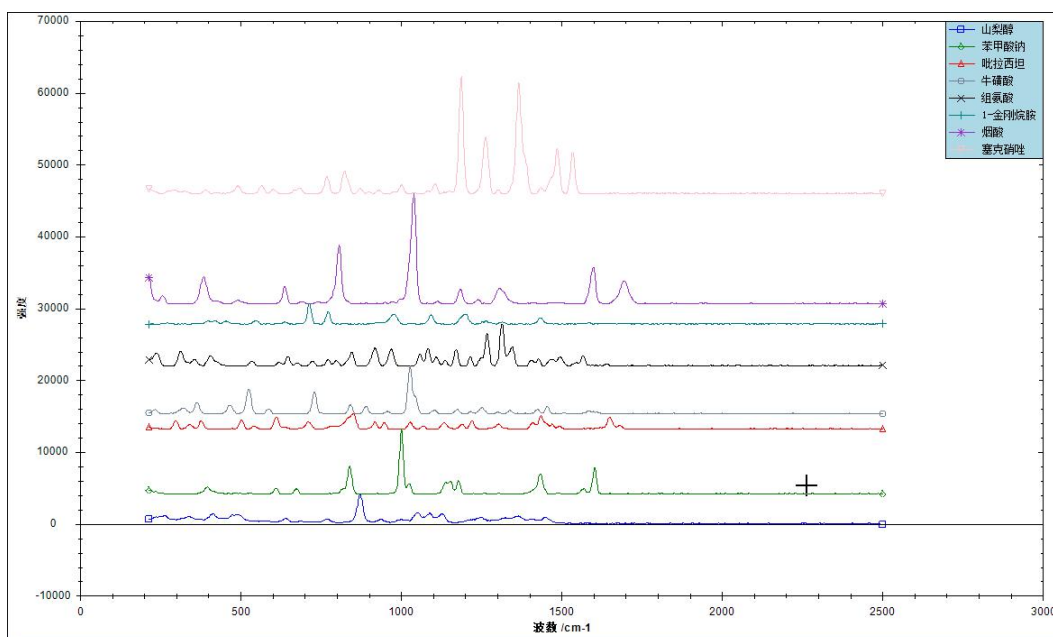


Raman Spectrometer Series

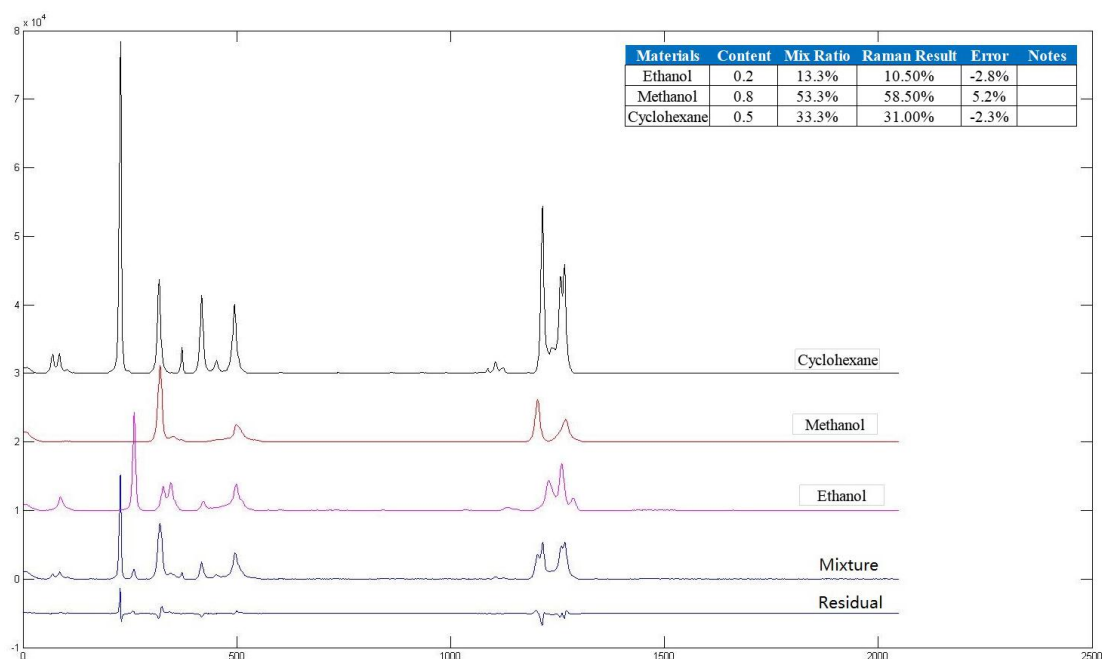
			
Scientific-Grade Raman Microscope Quadriband ATR8800 Series	Tri-band Raman Microscope ATR8500 Series Confocal Raman Microscope	Raman Microscope ATR8300 Series	High Troughput Raman ATR8000
			
ATR3110	ATR3000	ATR3000FD	ATR 3200
Portable or Benchtop Raman			
			
ATR6600 Pro Super Speed 1064nm	ATR6600 1064nm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

3 Raman Models Selection

5 ATR6500CH Spectra Example

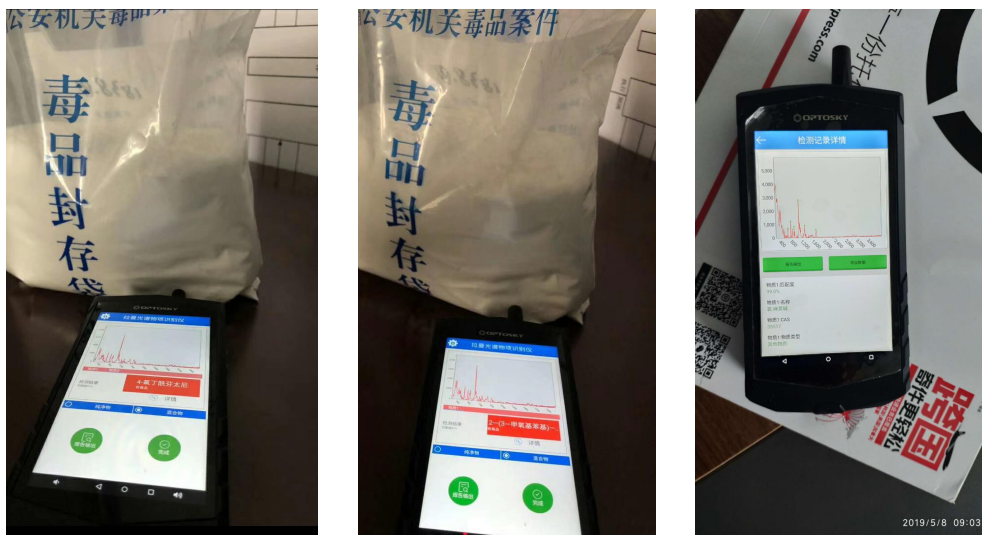


4 ATR6500CH measured Spectra of Sorbitol, Sodium Benzoate, Piracetam, Taurine, Histidine, Amantadine, Niacin, Secnidazole

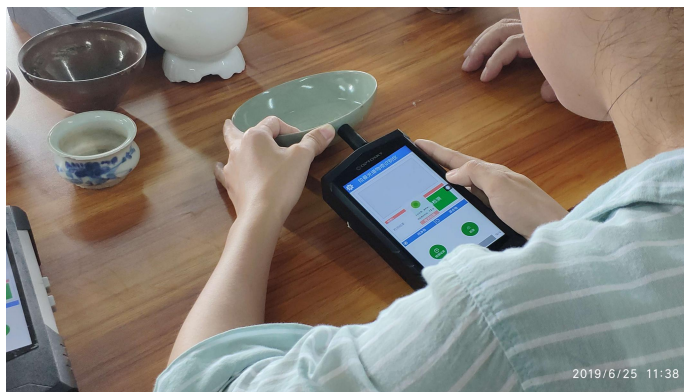


5 ATR6500CH Mixture Spectra

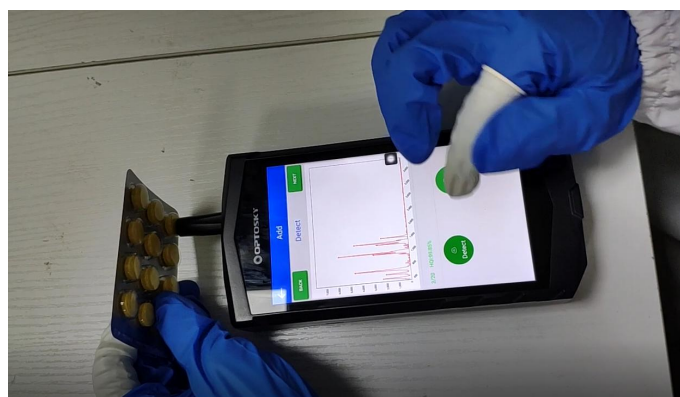
6 ATR6500 Field Pictures



6 ATR6500CH pictures of narcotics ID in police station



7 ATR6500CH ceramics ID



8 ATR6500CH Pharmaceutical ID

7 Company Profile

Optosky company is a first-class spectroscopy solution provider, with the headquarter locates in the 7th 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 9th 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 Doctor 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.

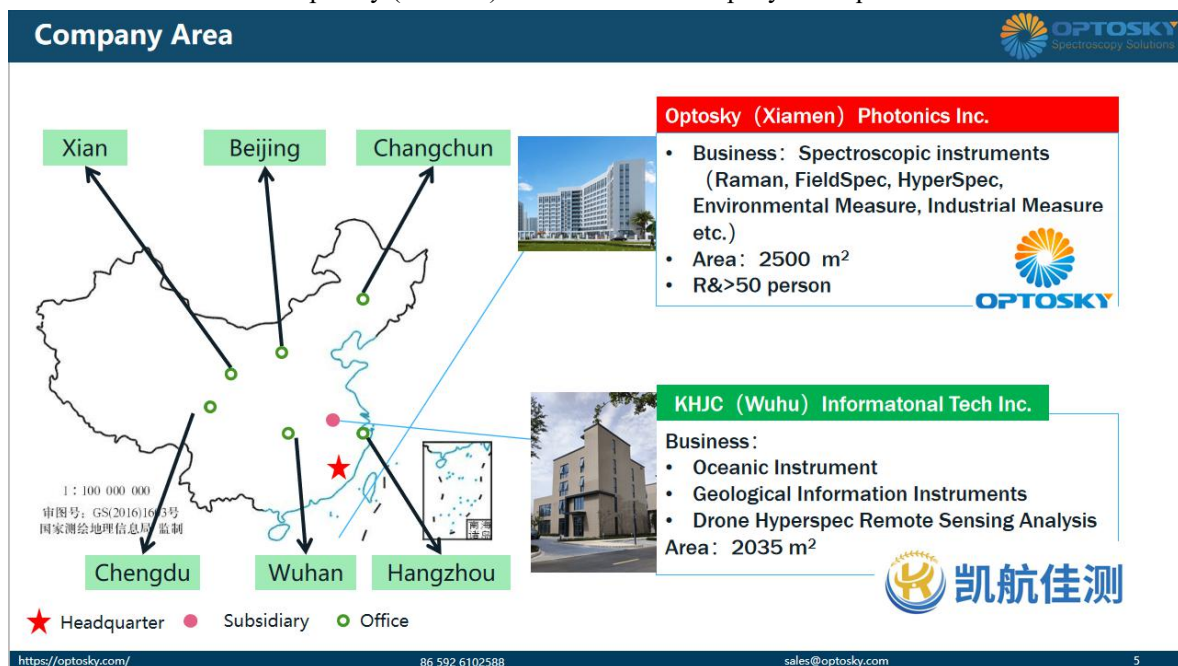
The company is currently conducting the exclusive project of major industrialization national oceanic administration with a total fund of five million us dollars. The company in charge of drafting national industry standard of VNIR and SWNIR Field Spectroradiometer, and six national standard drafters, 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.

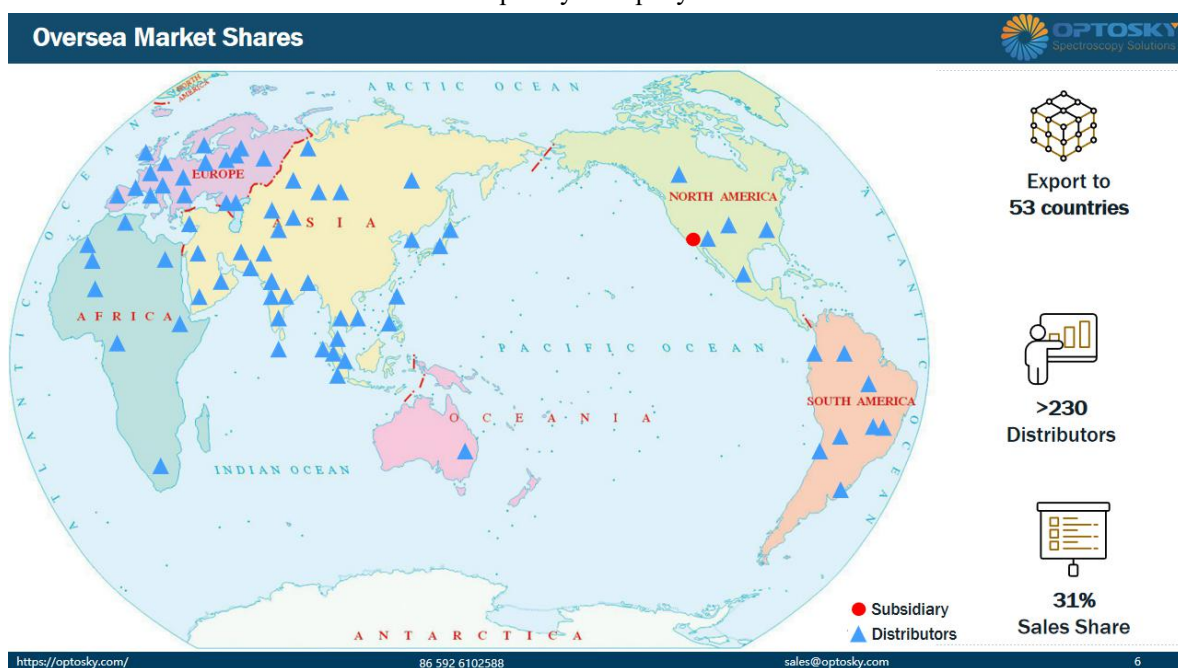
The company received ISO9001:2015 certification, CE certification, Police Administration Certification, FDA approval compliant, IQOQPQ compliant.



9 Optosky (Xiamen) Photonics Inc. Company Headquarter



10 Optosky Company Area



11 Oversea Market Shares

Optosky Chair and Draft National Standards Lists:

Chair Drafter
National Industry Standard Of VNIR & SWNIR
Field Spectroradiometer



China National Standard
Drafter for Buoy-type Monitor
eco-environment



China National Standard
Drafter for water quality
monitor in unmanned boat



China National
Standard
Drafter for
Raman
spectrometer



China National
Standard Drafter for
Hazmat detector
based on Raman
spectroscopy



China National Standards
drafter for online water
quality monitor by
spectroscopy



China National Standard Drafter
for UV-absorbent measure fabrics

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12 Optosky Chair and Draft National Standards Lists.

Qualification



ISO9001:2005



GB/T 23001
Informationization
& Innovation



CE, RoHS, LVD
17 models



Police
Approval
11 models



GB/T 29490
IP implementation



5 Innovative patents



35 patents
new utility design



32 Software
copyright

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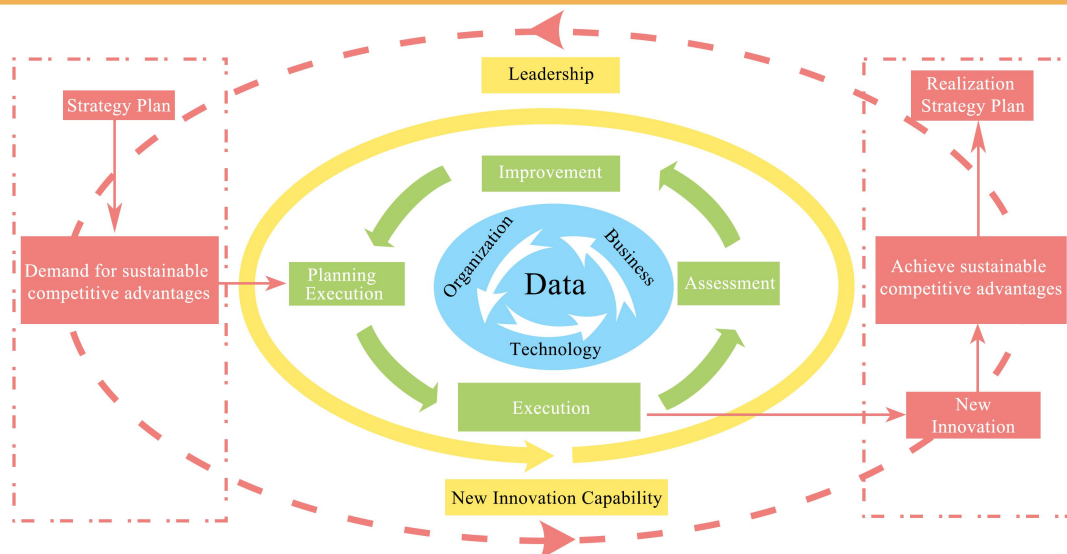
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13 Qualification

Informationization & Industrilization Fusion Management System



14 GB/T 23001_Informationization & Industrilization Fusion Management System

Co-Founder—Dr. Hongfei Liu



Postdoctoral Hongfei Liu

- Selected "Innovative Talent" by Science and Technology ministry
- Top Class A Talent by Xiamen City
- CCTV Science & Technology Interview
- Fortune 500 experience in Agilent, II-VI

Honors

- Selected by science & technology ministry as "Innovation Talent"
- CCTV Science & Technology Interview
- Top Class A Talent credited by Xiamen City
- Innovation Hero**

Education

- PhD • Chinese Science of Academic • Prof. Gui-Lin Chen, Originator in spectroscopy
- Postdoctoral • Xiamen University • Prof. Zhong-Qun Tian guided by the SERS founder M.Fleischmann

Career

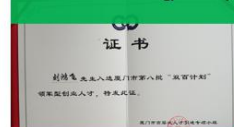
- Engineer → R&D Manager → GM
- Agilent**, Leader of instrument, Fortune 500 company, Job: engineer
- II- VI Incorporated (Nasdaq: IIVI) leader in optical & electrical industries, Job: GM of Instrumentation and Automation

Academic

- University graduate tutor
- obtain more than 60 IPs, more than 10 Innovation patents;
- Publish more than 20 papers, 2 recorded SCI, 8 recorded EI



Selected "Innovative Talent" by Science and Technology ministry



Top Class A Talent by Xiamen City



Founder & Tutors

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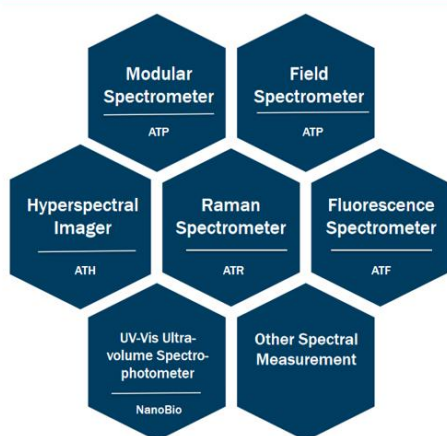
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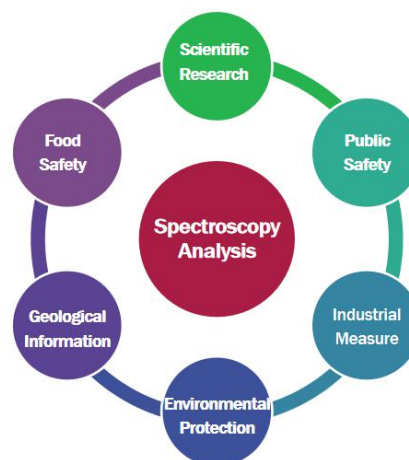
15 Optosky's Co-founder_Dr. Hongfei Liu

Category & Application

Category



Application



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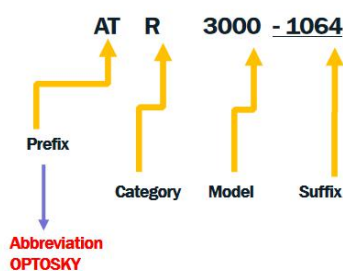
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16 Category & Application

Model Name Rule

Model Name Rule:

- Prefix
- Category
- Model
- Suffix



- **ATR** – Raman Spectrometer
- **ATP** – Micro Spectrometer
- **ATH** – Hyperspectral Imager
- **ATF** – Micro Fluorescence Spectrometer
- **ATL** – LIBS
- **ATW** – Water
- **ATE** – Environment Protect
- **ATFD** – Food Safety
- **GA** – Public Safety (**Gong An**)
- **GF** – Gas Monitor (**Gas Finder**)
- **GY** – Industrial Monitor (**Gong Ye**)

eg:

- Raman Microscope: ATR8300MP-1064
- Hyperspectral Imager: ATH9500

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17 Model Name Rule