

1064nm Handheld Raman

ATR6600

Feature:

- 1064nm Excitation , Reduced Risk of Fluorescence Interference;
- Non-Destructive, Fast Detect & Identify, One-touch Operation;
- Advanced algorithm, mixture detection;
- HD 5.5" capacitive touch screen, smooth operation system;
- 13-mega Camera;
- 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 , standby times > 72hrs
- Lightweight (1150g) , easy-to-take
- IP-68

Application:

- Public Safety; Food Safety;
- Dangerous Chemicals Detect at High Speed Train, Metro Entrance
- APIs & Pharmaceutical Excipients;
- Gemstones & Materials ID, Mineral sorting
- Experimental Research;

Description:

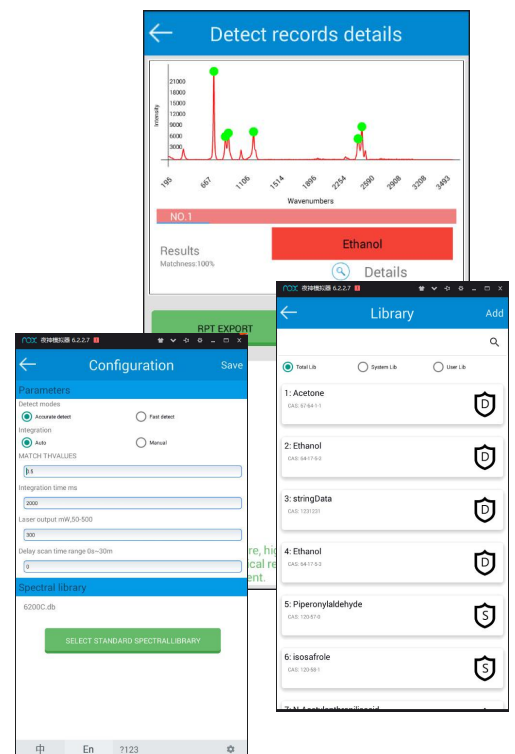
ATR6600 is a set of 1064nm handheld Raman analyzer that is excel at fluorescence resistance suit to high fluorescence materials detection.

With compact size, lightweight (1150kg), and easy-to-held, it can be widely applied to industries of customs, public safety, lab, plant, warehouse, deck etc. It can fast detect drugs, precursor chemicals, explosives, gemstones, raw materials, and also fast identify additives, residues of pesticide & veterinary drugs.

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,13-mega camera 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 , 21CFR PART 11** etc.

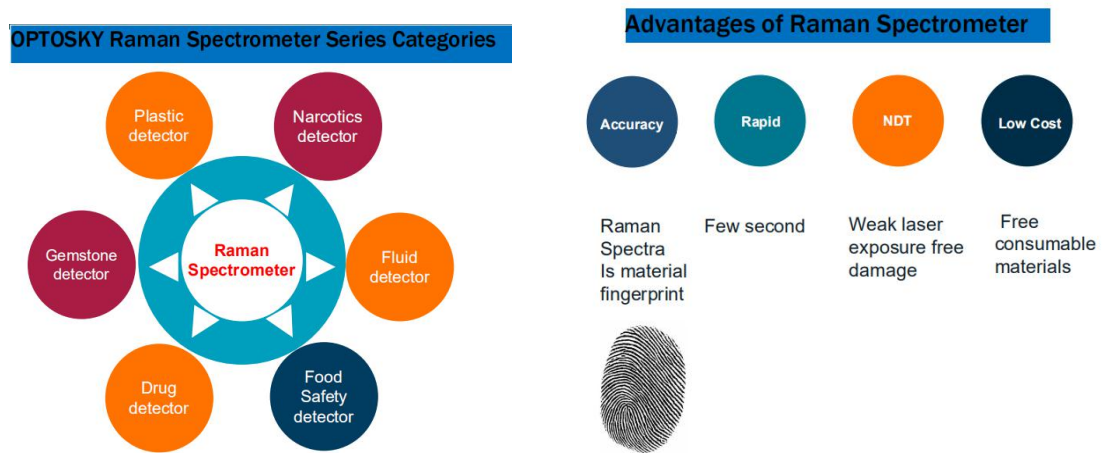
Intelligent Mobile Set Available in Your Hand!



ATR6600 System			
Feature	Excel at Fluorescence Resistance		
Operate System	Android		
Excitation Wavelength	1064 ± 0.5nm		
Wavenumber Range	200-2500 cm-1		
Resolution	8-12cm-1		
Touch Screen	5.5", 1920×1080, Multi-point touch control		
Detector	TE cooled InGaAs		
Size	220×110×45mm		
Weight	1150g		
Interface	WIFI, USB Type-C, Bluetooth, GSM		
Model & Library	Item	Spectral Library	Application
	ATR6600	Self-built Spectral Library	Scientific Research
	ATR6600DH	Narcotics drugs: Heroin, Cocaine, Metamfetamine, Ketamin... Precursor: (-)-ephedrine, Chloroform, Diethyl ether... Explosives: TNT,RDX,TATP, Ammonium nitrate... Hazardous chemicals: Sulfate, Gasoline, Nitric acid, Toluene... Food Safety: Illegal food additives, residues of pesticide, veterinary drugs	Police Customs Metro Court Prison Public Safety
	ATR6600PH	APIs, excipients...	Pharmaceutical Factory
	ATR6600GM	Gemstones: Diamond, Agate, Emerald...	Gemstones
	ATR6600IN	Chemicals, Plastics, Rubber, Polymer, Synthetics	Industrial Application
	ATR6600FTN	REMIFENTANIL, Brifentanil, Lofentanil, Trefentanil, Ocfentanil,Carfentanil, alfentanil, Mirfentanil, D5 FENTANYL-D5, ALFENTANIL HYDROCHLORIDE, SUFENTANIL CITRATE, Fentanyl Citrate, over 40 categories	Public Station
Export Report	Test results report export pdf, txt including detect result, spectral info, evident pictures		
Battery	standby times >72hrs		
Charging Type	USB Type-C		
Operating	-20 – 50 °C		

Temperature	
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1 Application & Advantages



1 Raman Application & Advantages

2 Optosky Raman Technology Milestones

Raman Spectrometer Technology

- Focus on developing Raman spectrometer for 20-year.
- China National Standards drafter of Raman spectrometer
- In 2016 launch the first generation handheld Raman spectrometer,
- In 2017 launch the dual-band Raman spectrometer
- In 2020, launch the triple-band Raman microscope
- In 2021, launch the quadriband scientific-grade Raman microscope
- ISO, CE, FDA Approval, Police Approval, API Approval
- Originate in Chinese Academic of Science University and Xiamen University



2 Optosky Raman Spectrometer Milestones

3 Raman Spectrometers Family

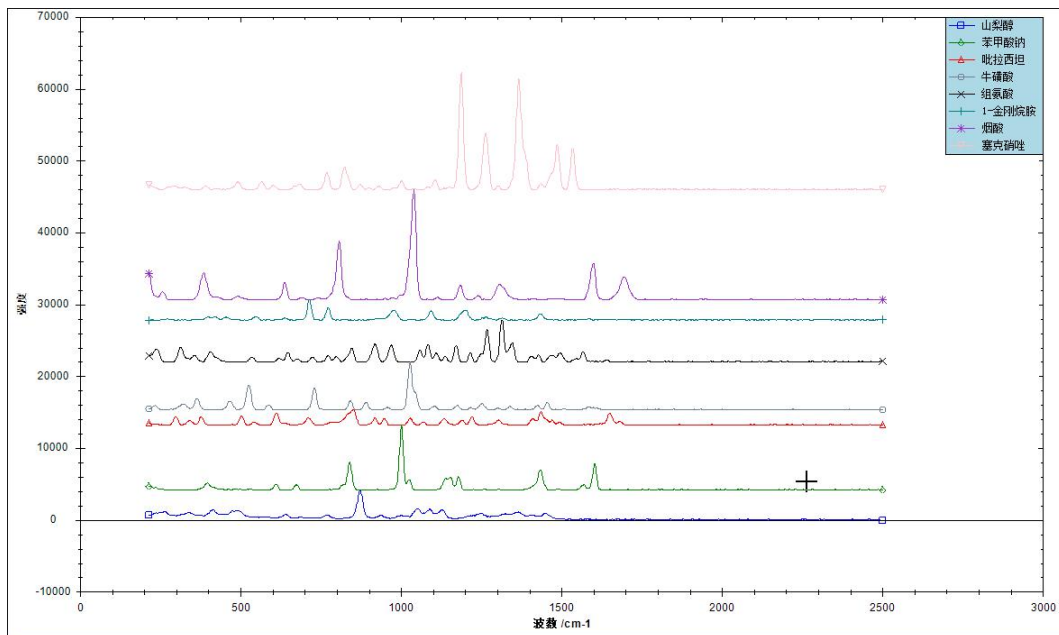


Raman Spectrometer Series

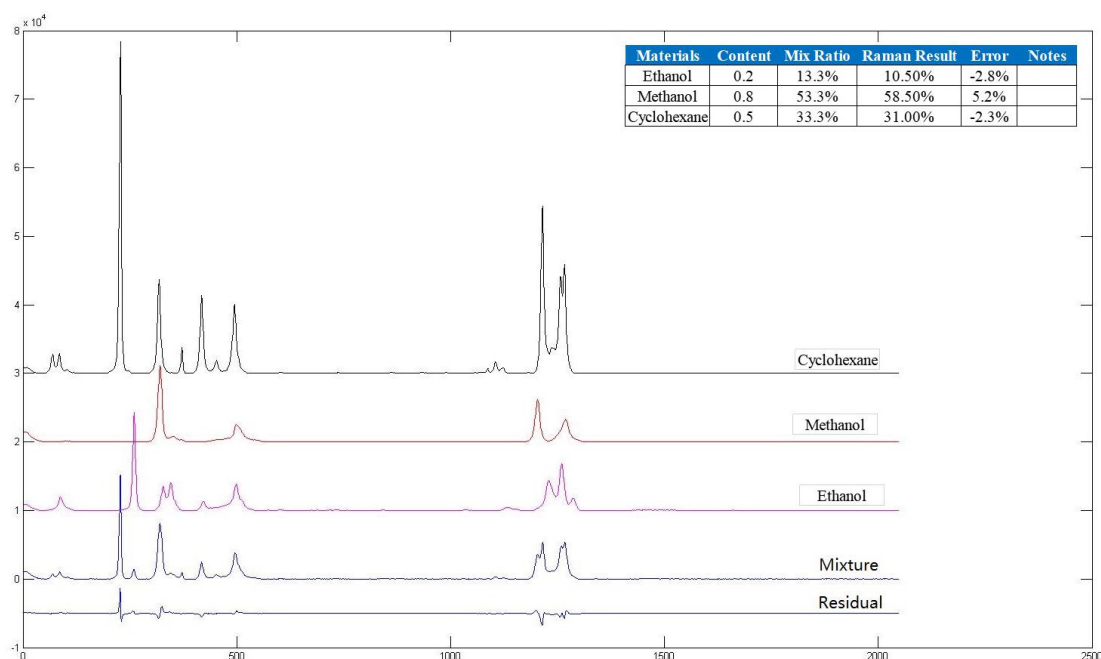
- Scientific-Grade Raman Microscope Quadriband ATR8800 Series
- Triband Raman Microscope ATR8500 Series Confocal Raman Microscope
- Raman Microscope ATR8300 Series
- High Troughput Raman ATR8000
- ATR3110
- ATR3000
- ATR3000FD
- ATR 3200
- Portable or Benchtop Raman
- ATR6600 Pro Super Speed 1064nm
- ATR6600 1064nm
- ATR6500CH 785nm
- ATR6500CH 532nm
- ATR6500 785nm
- Handheld Raman Analyzer
- Mini-Raman ATR1600
- Teaching Raman ATR1200
- Mini portable Raman ATR2500
- Underwater Raman ATR3700

3 Raman Models Selection

4 ATR6600 Spectra Example



4 ATR6600 measured Spectra of Sorbitol, Sodium Benzoate, Piracetam, Taurine, Histidine, Amantadine, Niacin, Secnidazole



5 ATR6600 Mixture Spectra

5 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

Company Area

1: 100 000 000
审图号: GS(2016)1613号
国家测绘地理信息局 监制

★ Headquarter ● Subsidiary ○ Office

Optosky (Xiamen) Photonics Inc.

- Business: Spectroscopic instruments (Raman, FieldSpec, HyperSpec, Environmental Measure, Industrial Measure etc.)
- Area: 2500 m²
- R&>50 person

KHJC (Wuhu) Informatonal Tech Inc.

Business:

- Oceanic Instrument
- Geological Information Instruments
- Drone Hyperspec Remote Sensing Analysis

Area: 2035 m²

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10 Optosky Company Area

Oversea Market Shares

● Subsidiary
▲ Distributors

Export to 53 countries

>230 Distributors

31% Sales Share

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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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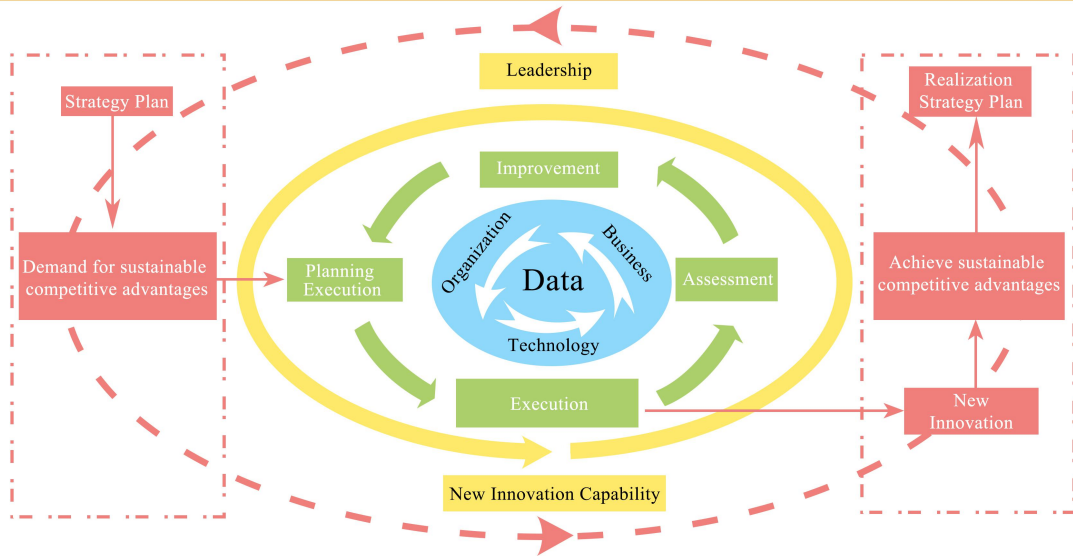
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13 Qualification

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



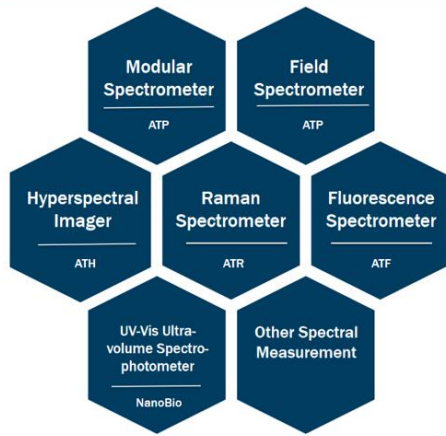


Founder & Tutors

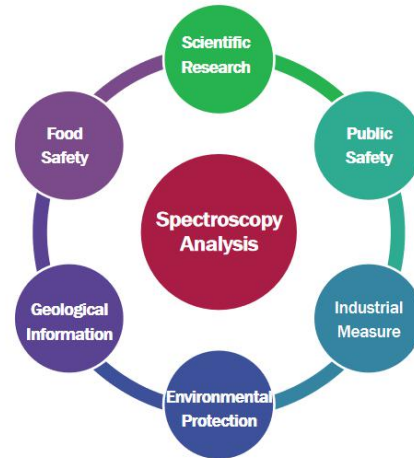
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15 Optosky's Co-founder_Dr. Hongfei Liu

Category



Application



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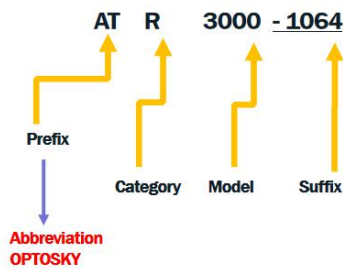
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16 Category & Application

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