

Portable NIR Grain Analyzer

ATP8500

Features:

- High Stability High SNR
- Easy to operate, Nondestructive to sample
- Remote support model , maintenance, model upgrade, and calibration
- Ethernet,WIFI, LAN
- Compact Size, Light Weight, Easy-to-take

Application:

- Soybean: Protein,fat,moisture,water soluble protein
- Rapeseed: Protein,moisture,erucic acid
- Wheat: Protein,moisture,wet gluten,ash content
- Barley: Protein,moisture,starch
- Corn: Protein,moisture,starch,fat
- Low land paddy rice: Protein.moisture,starch
- Rice: Protein.moisture,fat,direct starch
- Brown rice: Protein.moisture,fat,direct starch
- Sorghum: Protein,moisture,starch
- Linseed: Fat moisture

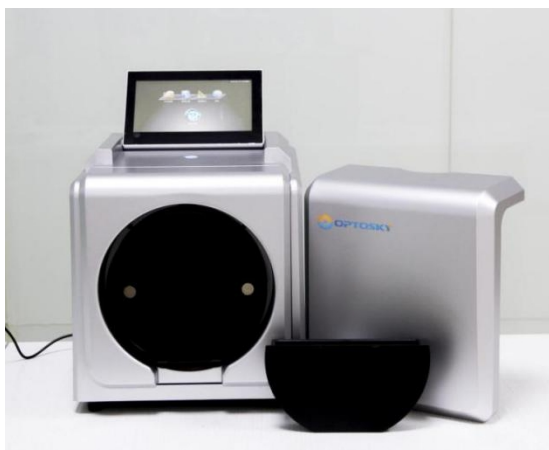
Description:

ATP8500 NIR Grain Analyzer is designed for the analysis of grain and oil crops. Based on the principle of NIR absorption measurement for quantitative or qualitative analysis.

It features fast, accurate, nondestructive detect and analyze paddy rice, rice, soybean, corn, linseed, wheat,sorghum, resulting in percentage of protein, fat, water, and starch items.

With compact size and light weight easy to take to outdoor detect and analysis in the field, warehouse, and inside truck, or in other places of grain raw ingredients process and production.

Its interface to Ethernet, WIFI, LAN.



1. Parameter

Item	Describe
Test object	Grain, rapeseed, etc
Test time	<3 mins
Spectroscopic principle	MEMS micromirror + grating
Wavelength range	950-1650 nm
Weight	<10 kg
External interface	USB
Power waste	25 W (Average)
Relative working humidity	<75%
Network	WiFi external wireless network card
Test items	Soybean, corn, sorghum, rice, rice and rapeseed contain erucic acid, peanut, wheat, barley and other crops.
Sample capacity	350 ml
Core detector	Single point InGaAs detector
Dimensions	L279mm * W338mm * H291mm
Power supply	24V/3A
Display	7 inch industrial display
Working temperature	5°C-45°C
Storage temperature	-40°C-60°C
Protection Level	IP65

2. Model Items

P/N	Items	Parameters
1	Soybean	Protein,fat,moisture,water soluble protein
2	Rapeseed	Protein,moisture,erucic acid
3	Wheat	Protein,moisture,wet gluten,ash content
4	Barley	Protein,moisture,starch
5	Corn	Protein,moisture,starch,fat
6	Low land paddy rice	Protein,moisture,starch
7	Rice	Protein,moisture,fat,direct starch
8	Brown rice	Protein,moisture,fat,direct starch
9	Sorghum	Protein,moisture,starch
10	Linseed	Fat, moisture

The items listed is not available, the customer can build model to add more items from online supports.

3. Attachment Lists

Attachments	Qty
NIR Grain Analyzer	1
Power Adaptor	1
Rotated Sample Cup	1
Touch Screen	1
Cleaning Kit	1
Manual	1
Carry Bag	1

4. 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.



Figure 1 Optosky (Xiamen) Photonics Inc. Company Headquarter

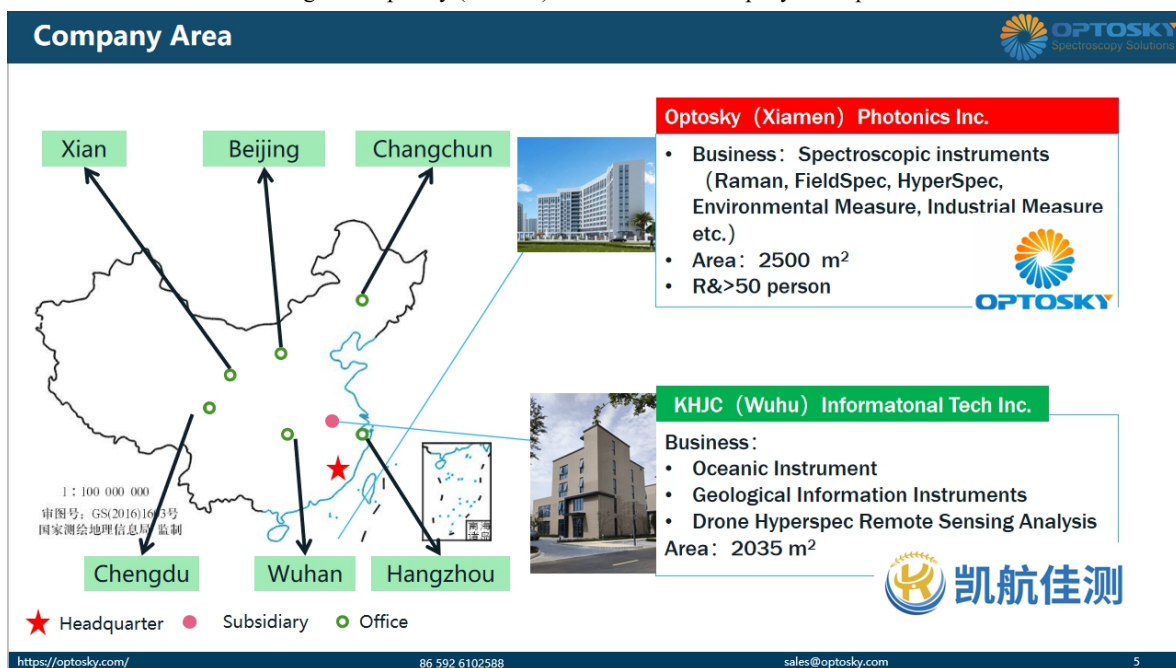


Figure 2 Optosky Company Area

Oversea Market Shares

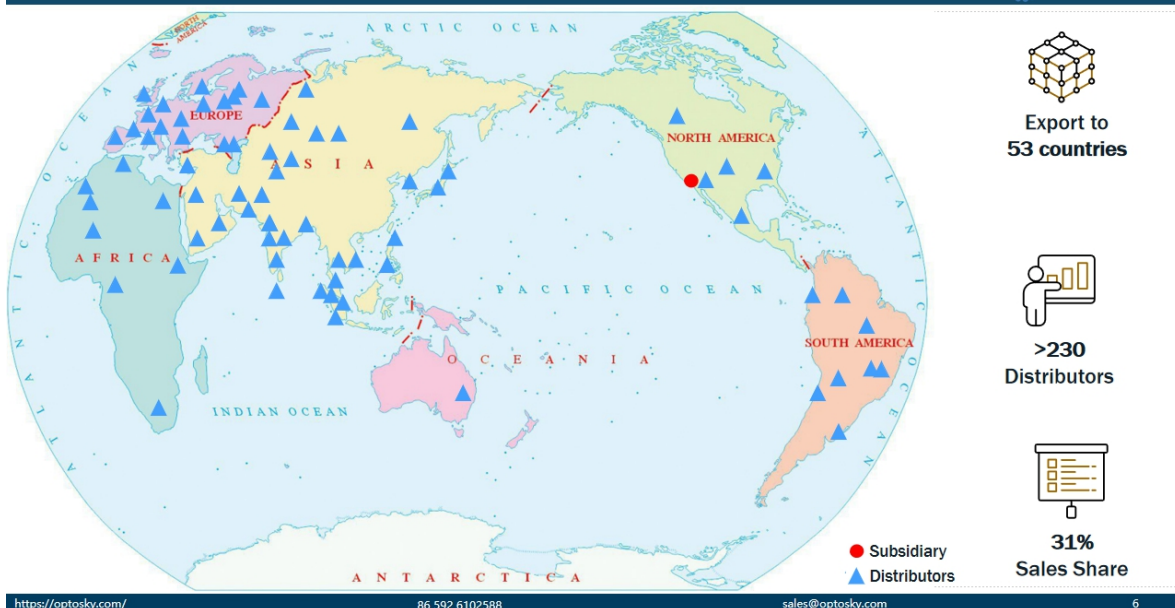


Figure 3 Oversea Market Shares

Optosky Chair and Draft National Standards Lists:



Figure 4 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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Figure 5 Qualification

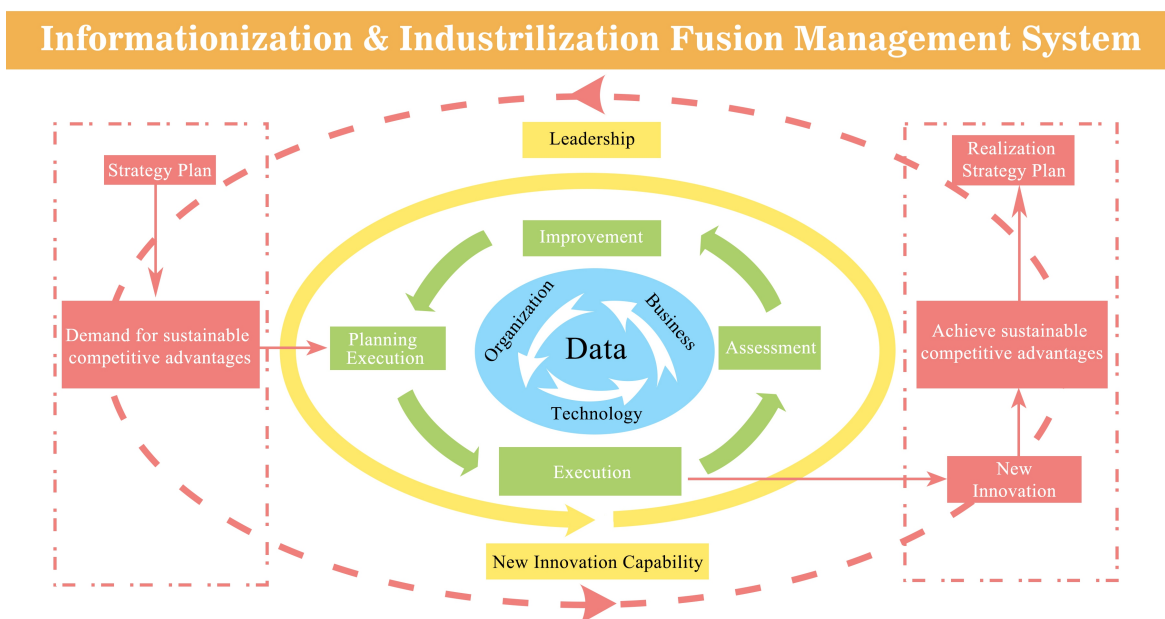


Figure 6 GB/T 23001_Informationization & Industrilization Fusion Management System

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

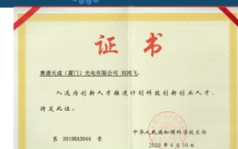
- PhD • Chinese Science of Academic • Prof. Gui-Lin Chen, Originator in spectroscopy
- Postdoctoral • Xiamen University • Prof. Zhong-Qun Tian guided by the SERS founder M.Fleischmann

Career

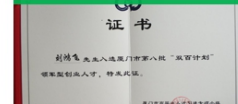
- Engineer → R&D Manager → GM
- **Agilent**, Leader of instrument, Fortune 500 company, Job: engineer
- II-VI Incorporated (Nasdaq: IIVI) leader in optical & electrical industries, Job: GM of Instrumentation and Automation

Academic

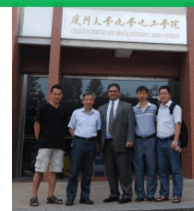
- University graduate tutor
- obtain more than 60 IPs, more than 10 Innovation patents;
- Publish more than 20 papers, 2 recorded SCI, 8 recorded EI



Selected "Innovative Talent" by Science and Technology ministry



Top Class A Talent by Xiamen City



Founder & Tutors

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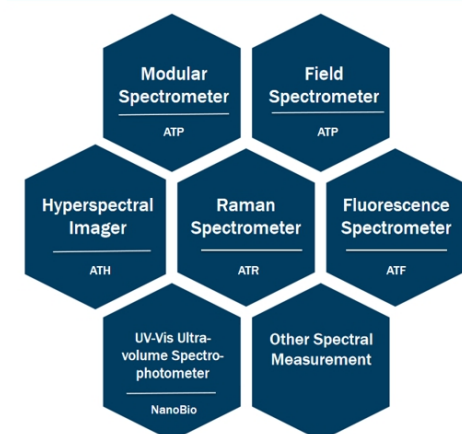
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Figure 7 Optosky's Co-founder_Dr. Hongfei Liu

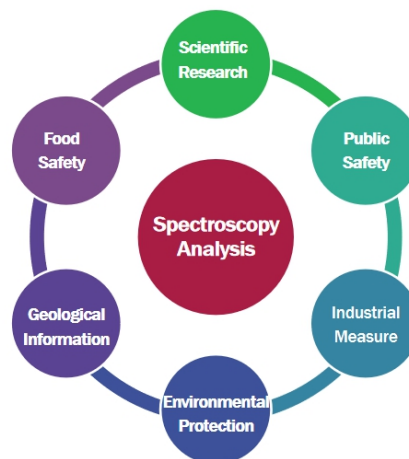
Category & Application



Category



Application




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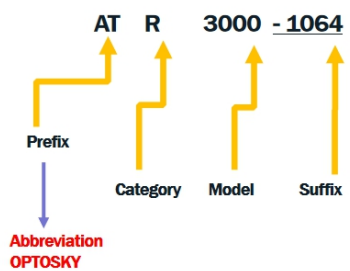
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Figure 8 Category & Application


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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Figure 9 Model Name Rule

5. Contact us:

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