

Long Life & High Stable Visible Light Source

ATG2000

Feature:

- Broad spectrum:400-800nm
- Long lifetime>30000hrs
- High stability, spectral shift $\leq 0.2\%$ per hours
- Smart size
- Warm-up time: 30 s
- Light efficiency: 61.451 lm/w
- Accurate luminance position ± 0.127
- Light output: 0-100% linear adjustable

Application:

- Spectroscopic on-line measurements
- Absorbance analysis
- Reflectivity analysis
- Industrial automation
- Photochemical testing
- Solar cell testing
- Transmission/reflectivity analysis

Description:

ATG2000 is a fast-acting, small size, high stability of the visible light instrument light source system, earthquake-resistant, impact-resistant, strong performance, can be fully guaranteed the consistency of experimental conditions. Realized other light sources can not be compared to the long life (more than 30,000 hours), high stability, high uniformity, no flicker.

The light source is concentrated in the visible light area and has a perfect spectral curve, making it ideal for absorbance detection. The ATG2000 outputs light from the SMA905 and is precisely tuned to connect to the fiber for maximum light flux. The ATG2000 can also output light sources in free space.

ATG2000 can achieve any adjustment of light output intensity, easy to control and has good color temperature and color rendering, light decay, high output power and other special points, can be widely used in traditional desktop spectral instruments and field portable micro spectral instruments.



ATG2000 Front

Back

1. Working Principle

Performance	Parameter
Maximum output optical power	1.35 W
Output optical power adjustment mode	Knob switch
Light Source life	>30000 hours
luminous flux	270 lm
Color temperature	5000k
Drift of optical output:	< 0.2% per hours
Power requirements	12V / 500mA
Power port	DC interface
Operating temperature	-25°C to +60°C
Dimensions	80 x 78 x 45mm
Weight	85g

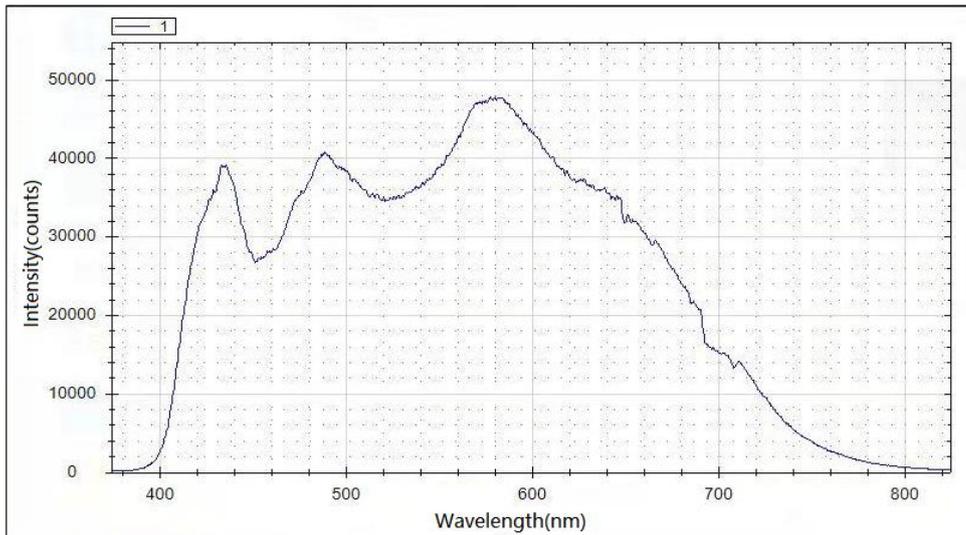


Figure 1 Output spectrum of ATG2000 (Measure with ATP2000P spectrometer)

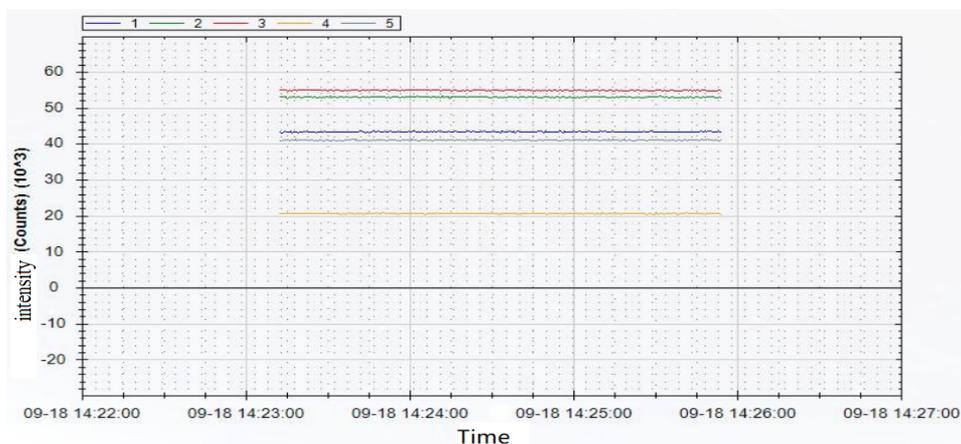


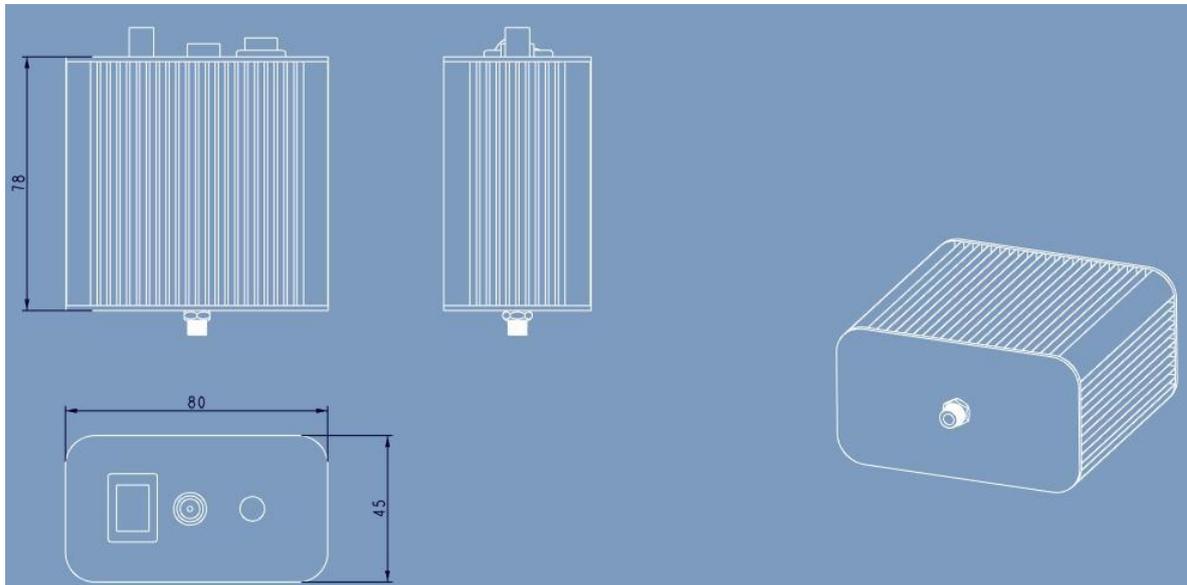
Figure 2 The output power stability of ATG2000 (change rate <0.13%)

2. ATG2000 Picture





3. Mechanical dimension



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

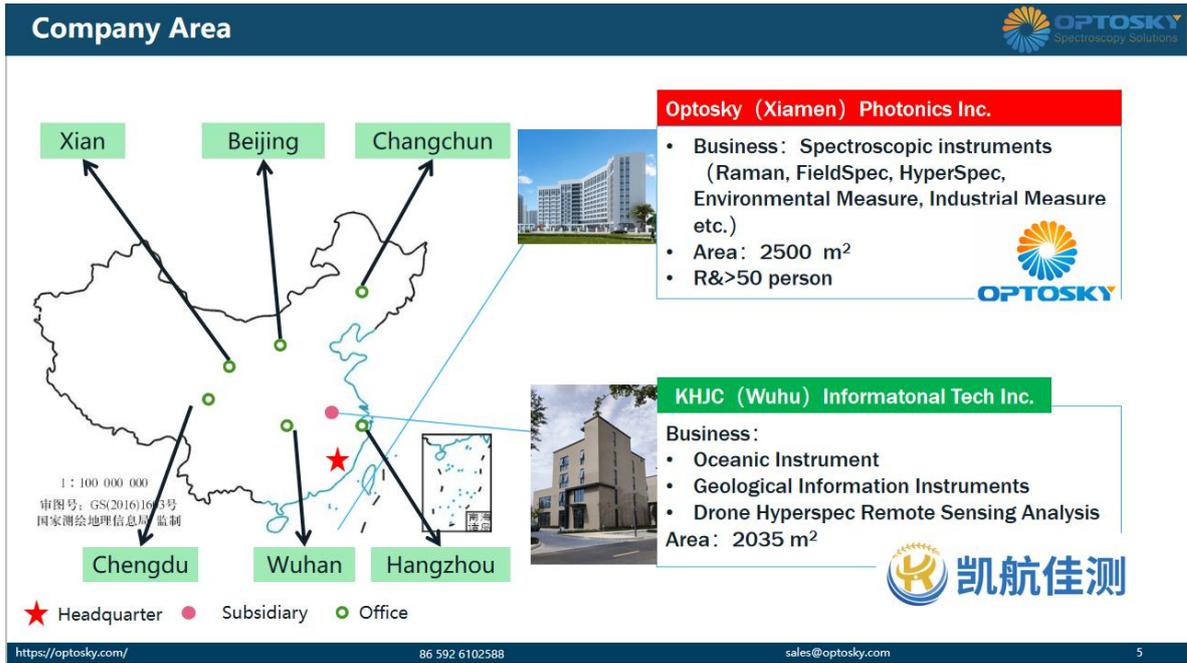


Figure 2 Optosky Company Area

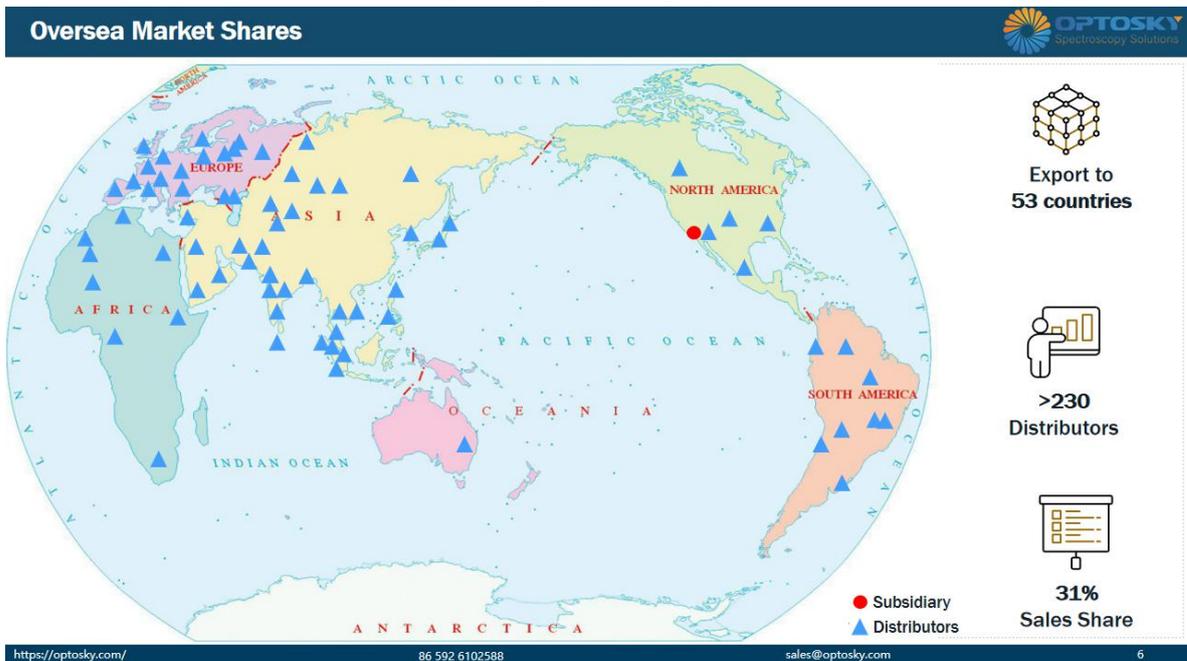


Figure 3 Oversea Market Shares

Optosky Chair and Draft National Standards Lists:

Chair Drafter
National Industry Standard Of VNIR & SWNIR Field Spectroradiometer

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

GB
China National Standard Drafter for water quality monitor in unmanned boat

GB
China National Standard Drafter for Raman spectrometer

GB
China National Standard Drafter for Hazmat detector based on Raman spectroscopy

GB
China National Standards drafter for online water quality monitor by spectroscopy

GB
China National Standard Drafter for UV-absorbent measure fabrics

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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

Informationization & Industrilization Fusion Management System

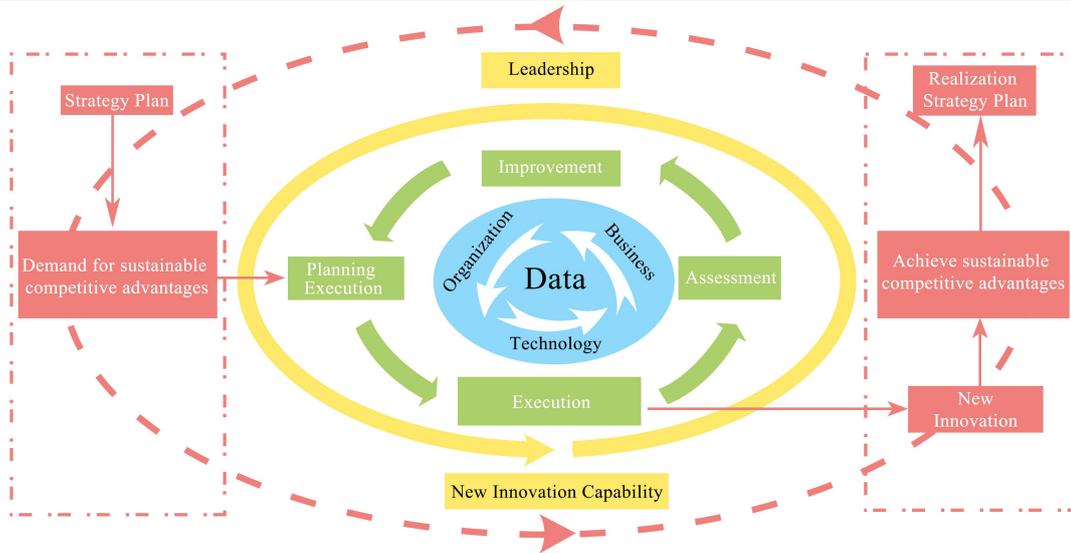


Figure 6 GB/T 23001_ Informationization & Industrilization Fusion Management System

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



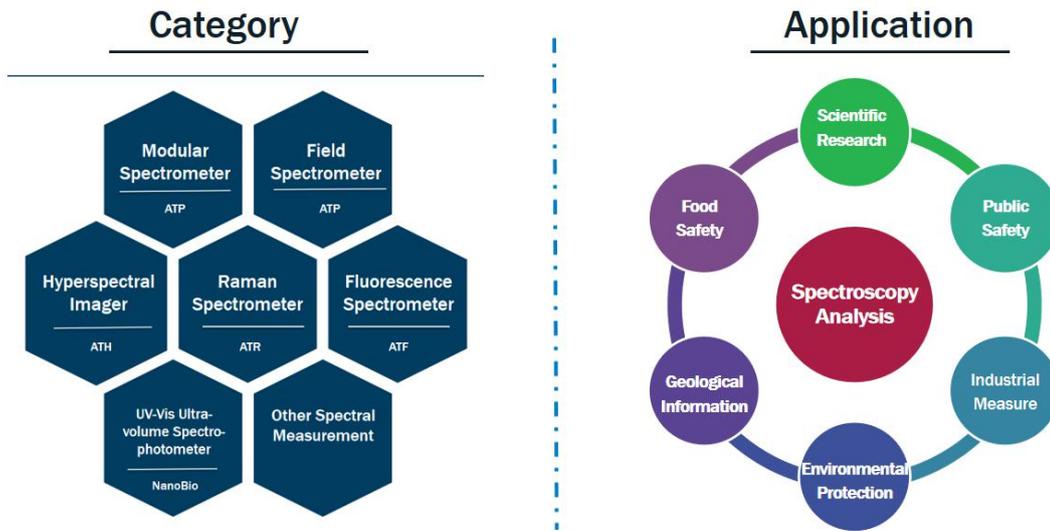


Founder & Tutors

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Figure 7 Optosky's Co-founder_Dr. Hongfei Liu

Category & Application



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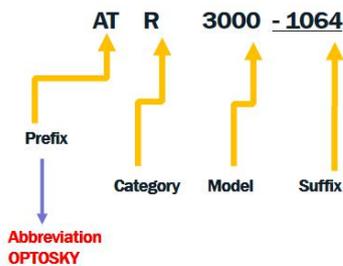
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Figure 8 Category & Application

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