



NanoBio 100 UV-Vis Spectrophotometer



UV-Vis Spectrophotometer

NanoBio 100

Features:

- Nucleic acids, Proteins, Full band absorbance
- Sample volume per time: 0.5-2 μ l
- Fast Measure: <3s
- Broad Spectral Range: 190-850nm;
- Long life span source up to 10 years
- Embedded high performance micro spectrometer
- High stability pulsed xenon light source
- Advanced algorithm;
- Self-built modeling function by user;
- USB Type C data output;

Application

- Scientific Research Lab
- Hospital
- Bio Lab
- Chemical Lab
- Environment Measure

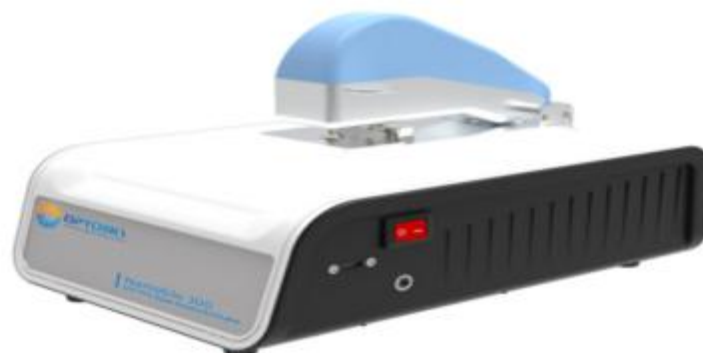
Description:

NanoBio 100 is a full wavelength (190-850nm) UV-Vis spectrophotometer, which is self-designed by Optosky. It bases on 20-year experience in developing spectrometer plus Hamamatsu pulsed xenon lamp, it's a successful spectrophotometer can fast measure nucleic acids, protein and cell solution. Meanwhile, its easy-to-use, sample volume requires only 0.5 ~ 2 μ l, it's not required preheating and it can fast clear out residue sample, no cuvette or other sample positioning fixture, no dilution etc.

NanoBio 100 spectrophotometer, easy-to-use, pipette directly onto the sample measure detect head, close it to start measure. It can directly wipe out residue sample or recycle after completing measure.

NanoBio 100 spectrophotometer is mainly used to measure nucleic acids, protein. It uses high energy pulsed xenon light source give spectral measure of 230nm, 260nm, 280nm.

NanoBio 100 is connected to the computer through the USB interface, which is very convenient to operate the instrument on the computer, and the data is stored on the computer. NanoBio 100 adopts the most common type C interface, and its USB cable can be used with ordinary mobile phone charging cables.



1. Performance

Parameters	Specifications	Notes
Sample Volume	0.5 - 2.0 μ L	
Measurement Cycle	~ 3 seconds	
Optic Path Length	1.0 mm	0.5,0.25 and 0.05mm is optional
Wavelength Range	190 ~850 nm	
Light Source	Xenon flash lamp	
Detector Type	2048 pixel linear CCD array	
Wavelength Accuracy	1 nm	
Wavelength Resolution	\leq 2 nm (FWHM at Hg 546 nm)	
Absorbance Precision	0.003 Abs	
Absorbance Accuracy	1% (0.76Abs at 257nm)	
Minimum Detection Limit	2 ng/ μ L (dsDNA)	
Max Concentration	15,000 ng/ μ L (dsDNA)	
Absorbance Range	0.04 ~ 300 (10 mm)	
DNA range	2 ~ 4500ng/ μ l (dsDNA) 2~15000ng/ μ L(Optional)	
Surface Construction	304 stainless steel and quartz fiber	
Operating Voltage	12V DC@2A	
Power Consumption	24 W	
Standby Power	1.5 W	
Data interface	USB2.0	
Dimensions	290 X 210 X 150 mm	
Weight	2.6kg	

2. 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 Optomechanics, 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

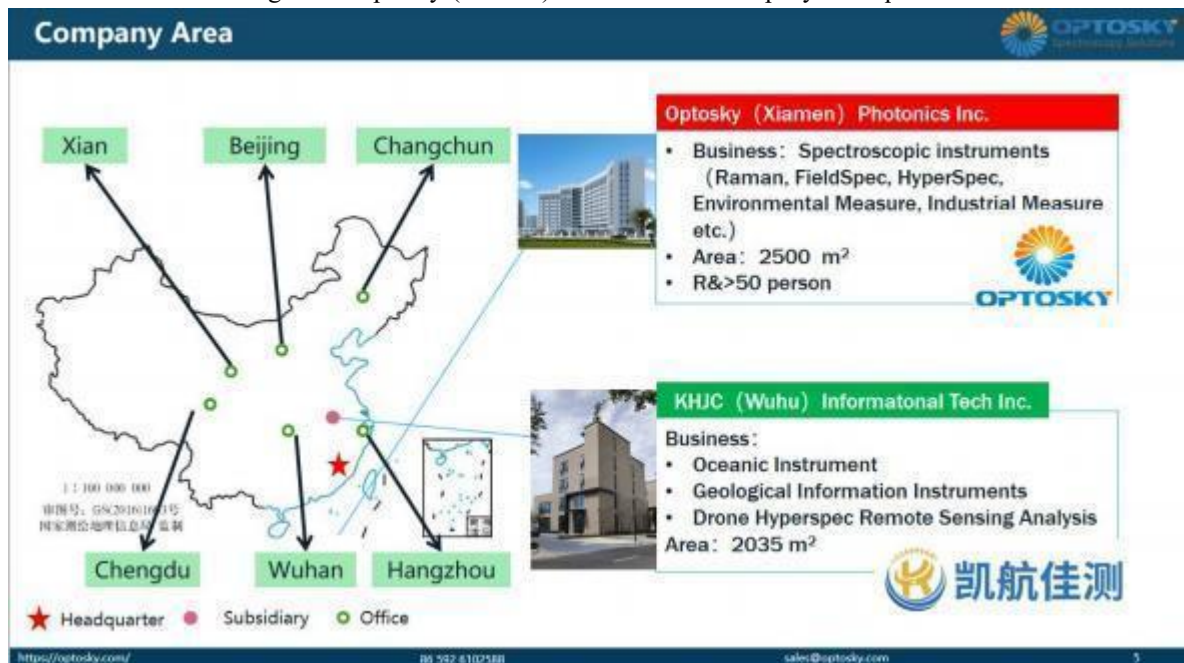


Figure 2 Optosky Company Area



Figure 3 Overseas Market Shares



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	 36 patents new utility design	 32 Software copyright

<https://optosky.com/>
86 592 6102588
sales@optosky.com
14

Figure 5 Qualification

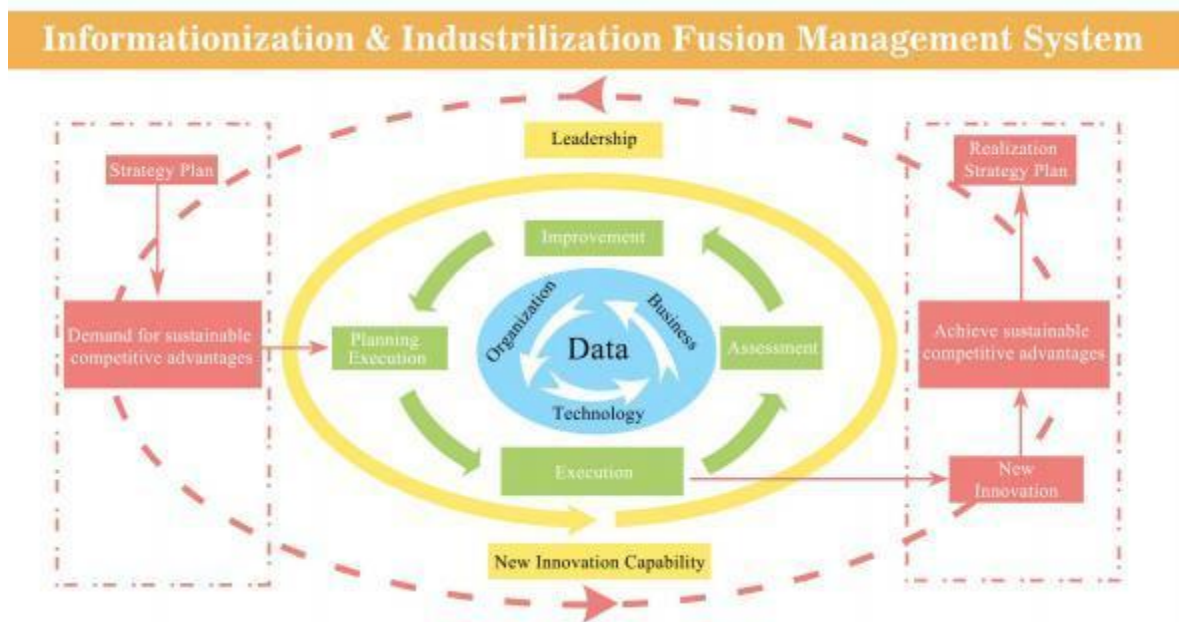


Figure 6 GB/T 23001_Informationization & Industrilization Fusion Management System

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

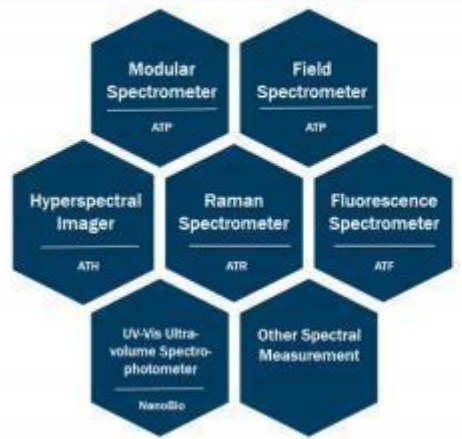
Founder & Tutors

<http://optosky.com/>
86 592 6102588
sales@optosky.com
9


Figure 7 Optosky's Co-founder_Dr. Hongfei Liu

Category & Application

Category

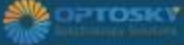


Application



<http://optosky.com/>
86 592 6102588
sales@optosky.com
15

Figure 8 Category & Application

Model Name Rule


Model Name Rule:

- Prefix
- Category
- Model
- Suffix

Prefix

↓

Abbreviation
OPTOSKY

AT R

↑

Category

3000 - 1064

↑

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

<http://optosky.com/>
86 592 6102588
sales@optosky.com
16

Figure 9 Model Name Rule