

Electronic Digital Analytical Balance (external calibration)

ATB-2004

Features:

- High-resolution TFT making high-contrast display of text and graphics available
- High anti-shock capability
- Weighing speed, display mode/auto zero tracking adjustable
- Full range auto tare, temperature compensation
- Automatically error diagnose , overload protection and alarm function
- Automatic wind-shield door improves weighing efficiency
- Multiple weighing units (g / oz / ct / kg / lb)
- Standard RS-232 interface enables connections with a PC or printer

Description:

Optosky ATB series electronic analytical balance adopts the internationally recognized high-sensitivity, high-stability and high-speed integrated electromagnetic force sensor technology, which leads the balance of similar products in the industry in terms of cost performance. It has the characteristics of high precision, fast response, low maintenance, large range, high precision, ultra stability and multi-function. Its appearance is innovative and trendy, winning higher product pricing initiative. The whole machine has outstanding texture, rigorous process and exquisite beauty.

Application:

The products are widely used in scientific research, education, medical treatment, metallurgy, agriculture and other industries.



1. Working Principle

When using the electronic analytical balance, when the power is turned on under no-load state, there will be standard current in the coil at the lower end of the balance to generate electromagnetic force, so that the balance is at the zero point of the balance position. The position change of the beam after the coil is powered on is measured by the receiving led and the differential transformer.

In the balanced state, when the balance tray is placed with the object to be measured, the beam tilts, and the position detector generates an imbalance signal, which is transmitted to an internal detection circuit at the bottom of the balance. The circuit generates a compensation current to flow through the coil and generates greater electromagnetic force to maintain the balance of the balance.

Generally speaking, the electromagnetic force balance type electronic analytical balance converts the mass of the object to be measured into current detection through the electromagnetic force balance principle, and then digitally displays the mass value of the object to be measured through current voltage conversion, analog-to-digital conversion and digital operation.

2. Parameter

Model Number	ATB-2004
Weighing Capacity (g)	200
Readability(mg)	0.1
Repeatability(≤ mg)	± 0.1
Linearity(≤ mg)	± 0.2
Pan Size(mm)	Φ 90
Gross Weight(kg)	7.5
Net Weight(kg)	5.5
Dimension (mm)	365 × 223 × 338
Packing Measurement (mm)	500 × 310 × 450

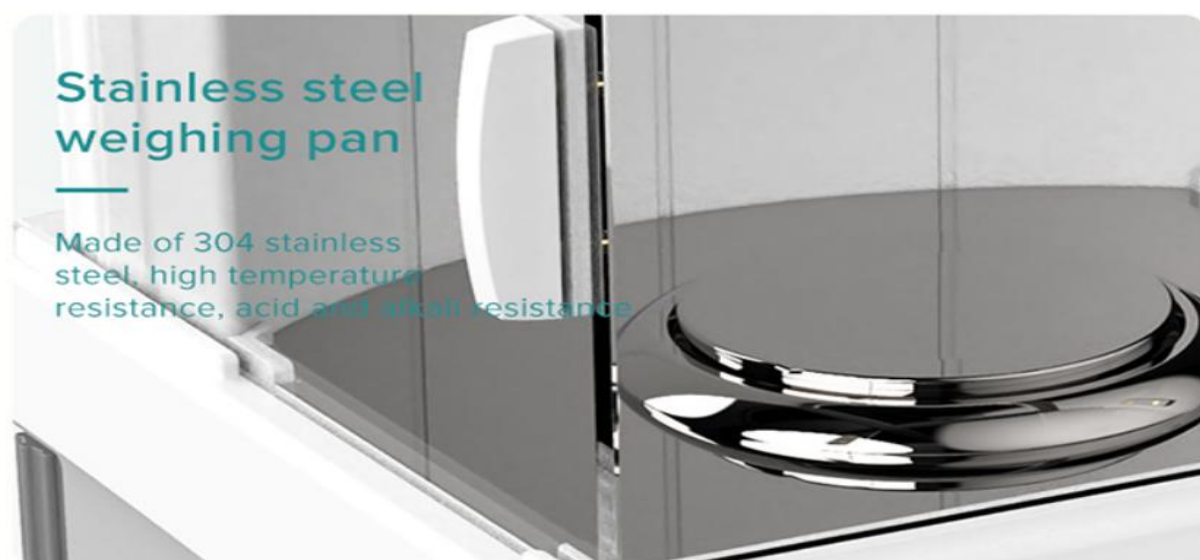
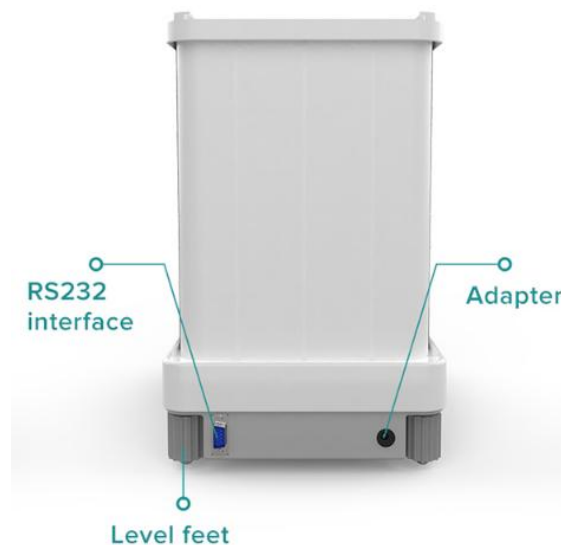




Figure 1 Optosky (Xiamen) Photonics Inc. Company Headquarter

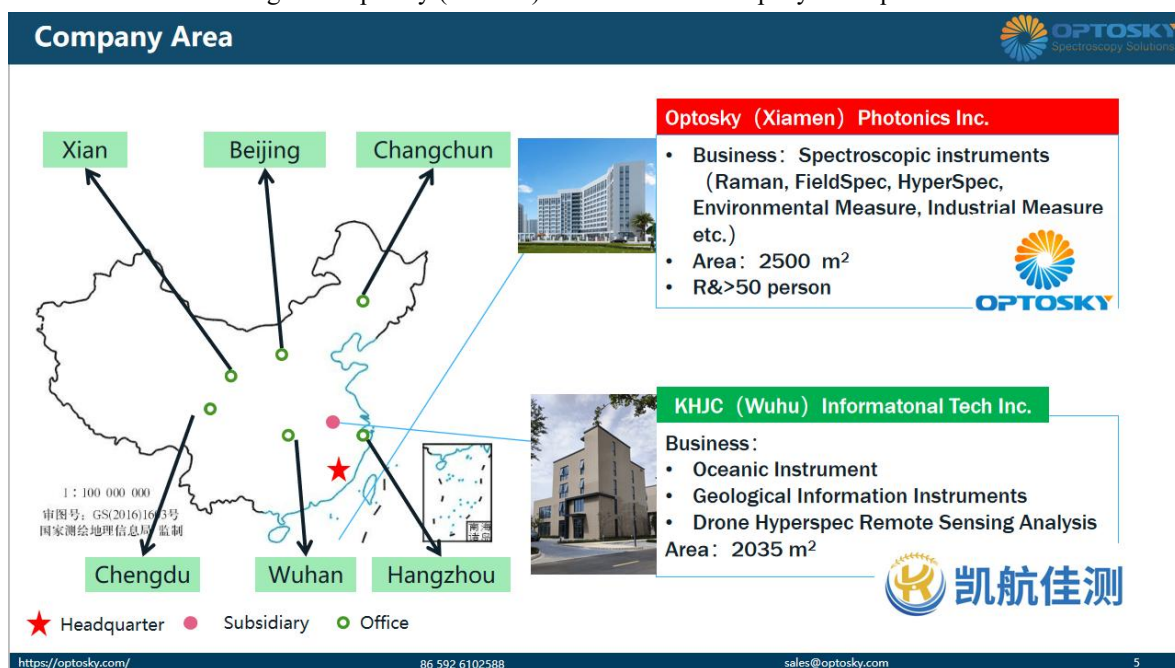


Figure 2 Optosky Company Area

Oversea Market Shares

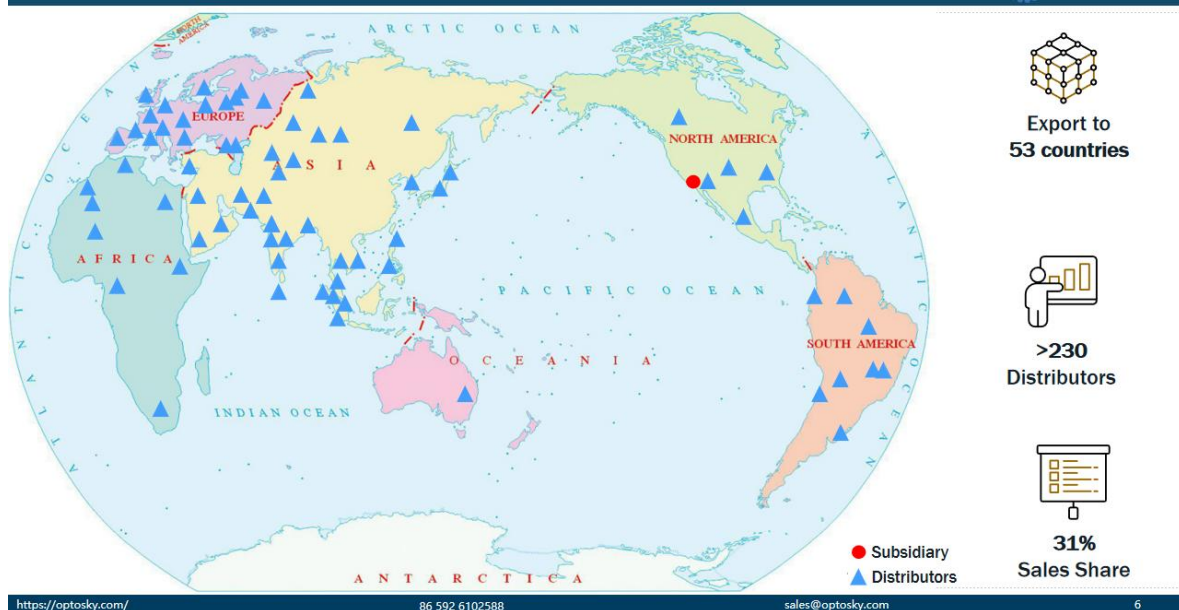


Figure 3 Oversea Market Shares

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

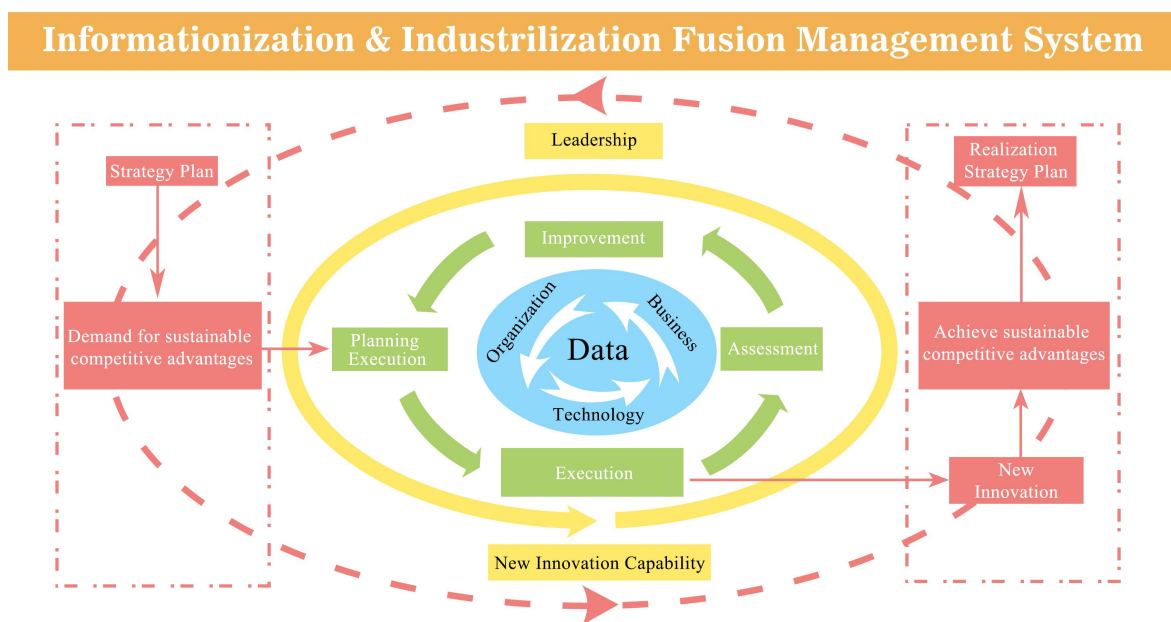


Figure 6 GB/T 23001_Informationization & Industrilization Fusion Management System

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

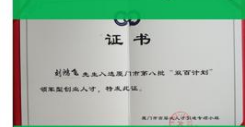
- Engineer → R&D Manager → GM
- **Agilent**, Leader of instrument, Fortune 500 company, Job: engineer
- II-VI Incorporated (Nasdaq: IIVI) leader in optical & electrical industries, Job: GM of Instrumentation and Automation

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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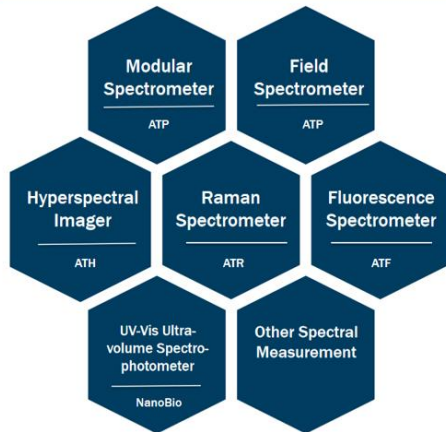
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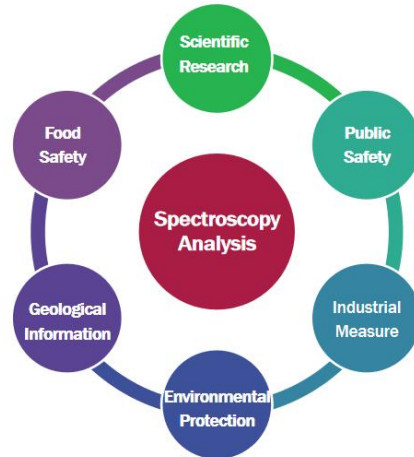
Figure 7 Optosky's Co-founder_Dr. Hongfei Liu

Category & Application

Category



Application



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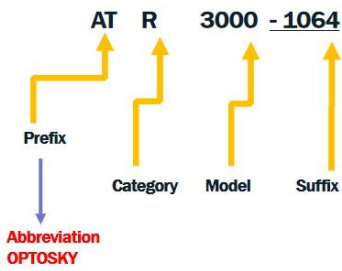
Figure 8 Category & Application

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