## i-Vacupack 6100 Vacuum Packaging Analyzer

- Supports Online Data Management System for Packaging Testing. It is ultimate cloud computing technology for test data processing and management
- Designed with embedded computer controlled system and intelligent operating software
- Can be used to measure the volume of residual oxygen for various flexible vacuum packages as well as test the seal performance
- ✤ Advanced detection technology for various vacuum packages



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### **Online Data Management System for Packaging Testing**

Comes with two versions to meet distinct needs of our clients:

#### The Cloud Version

- Consists of 6 functional modules. They are Test Management, Target Management, Instrument Management, File Management, Settings, and Online Support
- Cloud services supports storage, calculation, and analysis of mass test data
- Automatically uploads original test data to the cloud server to guarantee data security
- Intelligent statistical analysis of test results
- Easily accessible through the Internet on PCs, laptops, mobile phones, and other devices anywhere and anytime. Real-time test results and historical test reports, as well as analytical graphs and statistical information can be checked and reviewed.

#### The Intranet Version

- Featured with storage space for vast data, correlation analysis, trend analysis, and statistical analysis of test data, as well as report printing and data export functions
- Easily accessible via computers through Intranets
- "One Click Upgrade" to the powerful "Cloud Version"

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#### Functionality

- The first instrument that is designed for the quantitative measurement of residual oxygen for various flexible vacuum packages as well as testing of seal performance
- Differential pressure method and liquid level analysis technology are employed in this instrument
- Top quality parts and components made by world famous brands are used to ensure reliable overall product performance
- All test parameters can be set flexibly for convenient operation
- Intelligent reminder for sensor calibration guarantees accurate results
- System supports historical data searching and printing functions

#### Design

- Embedded computer controlled system provides safer and more reliable data management as well as test operation.
- The instrument can be easily operated with a mouse, keyboard, and monitor. No PC is required.
- The instrument is equipped with four USB ports and dual Internet ports for convenient data transmission.
- Sophisticated energy consumption, test environment monitoring, and analysis functions for better test accuracy and reliability. (Relevant sensors are needed. For more information, please refer to the configuration in Technical Specifications.)

#### Software

- Interface Windows-based operating interface
- Statistics System can conduct easy calculation for historical results, instrument usage, energy consumption, and large statistical information
- **Test Report** Detailed test reports can be provided in various customized patterns
- Energy Consumption and Test Status Monitoring With additional, optional sensors, the system monitors and displays real-time voltage, current, energy consumption as well as ambient temperature and relative humidity. This serves to evaluate the test data's reliability.
- User Management Supports multi-level account management for better data management and protection
- **Operation Log** System automatically records all user operations allowing easy review.

#### **Test Principle**

The vacuum test cell is composed of an outer chamber and an inner chamber. Before the test, the inner chamber, where a test specimen is placed, is completely filled with water and then sealed with the sealing plate. The outer chamber, also called measuring chamber, is slowly injected with water to a designated level and sealed. Both chambers are thereafter evacuated until the test specimen expands. The residual oxygen volume within the specimen is obtained by fluid level analysis technique associated with corresponding calculations.



## Applications

This instrument is designed to determine seal performance and the quantity of residual oxygen in the following packages:

Basic Applications	Vacuum Packages for Food	This instrument is used to measure the volume of residual oxygen in vacuum food packages as well as test the seal performance.
	Vacuum Packages for Drugs	This instrument is used to measure the volume of residual oxygen in vacuum drug packages as well as test the seal performance.
	Vacuum Packages for Cosmetics	This instrument is used to measure the volume of residual oxygen in vacuum cosmetic packages as well as test the seal performance.
Extended Applications	Non-vacuum Packages for Food	This instrument is used to measure the volume of residual oxygen in non-vacuum food packages as well as test the seal performance.
	Non-vacuum Packages for Drugs	This instrument is used to measure the volume of residual oxygen in non-vacuum drug packages as well as test the seal performance.
	Non-vacuum Packages for Cosmetics	This instrument is used to measure the volume of residual oxygen in non-vacuum cosmetic packages as well as test the seal performance.

### **Technical Specifications**

Test Specs	Test Range ( Residual Gas )	0~15 mL (Standard) Note: As a default setting, residual oxygen volume can be obtained by multiplying this value by 20.9%. Customization is available for other test range.
	Test Accuracy (Residual Oxygen)	±0.1 mL (Gas volume is 0~5 mL) ±0.3 mL (Gas volume is 5~10 mL) ±0.5 mL (Gas volume is 10~15 mL)
	Vacuum	0 ~ -90 kPa
	Vacuum Accuracy	0.25 kPa
	Voltage Monitoring Range	AC $0\sim250$ V, with $\pm0.5\%$ accuracy
	Current Monitoring Range	$0\sim15$ A, with ±0.5% accuracy
Environment	Energy Analysis Accuracy	±0.5%
Monitoring Specs (Optional)	Environmental Temperature Monitoring Range	-10 °C~55 °C, with ±0.1 °C accuracy
	Environmental Humidity Monitoring Range	$0\sim100\%$ RH, with $\pm2\%$ RH accuracy
	Instrument Dimensions	580 mm (L) x 320 mm (W) x 540 mm (H)
<b>Other Specs</b>	Port Size	Φ6 mm
	Power	AC 110V 60Hz

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	Net Weight	61 kg
Configurations	Standard	Instrument (Includes Wireless Data Interface), Professional Software, LCD Monitor, Keyboard, Mouse, and Vacuum Pump
	Optional	Environmental Monitoring Sensors (Includes voltage, current, temperature, and humidity sensors) and Printer (compatible with PCL3)
	Online Data Management System for Packaging Testing	Wireless Data Transfer Module, and High Gain Antenna

#### Please Note:

- Pictures used are for illustration purposes only and may differ from the actual product received.
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