

Bring **Technology** to **Life!**



# Biolum

## Portable ATP Hygiene Monitoring System

Your reliable hygiene safety guardian



**Fast**  
Result in 10s for one test

**Sensitive**  
Detect down to  $10^{-16}$  mol of ATP

**Template**  
Pre-configured templates including different industries and locations, together with upper and lower limits can start your test immediately

**Low Consumption**  
Using Li-ion battery that can work more than 8h continually

**Powerful Memory Capacity**  
256 test plans, 256 user IDs, 2000 test program, 1000 results

**User-friendly**  
3.5 inch high resolution color screen, intuitive menus, less bottoms, simple to use

**Connectivity**  
Connect PC via USB, connect printer or app in Android system mobile phone and pad through Bluetooth

**Highly Portable**  
Within 300g with battery

Biolum Portable ATP Hygiene Monitoring System, a powerful tool for implementing and managing your hygiene monitoring program. Taking advantages of the progressive testing swab, the hygiene level will be evaluated in seconds, and the results can be visualized on screen. Featuring the state-of-art technology, the Biolum is a user-friendly, flexible, and accurate quality monitoring system. It has all the features to maximize its value to your business.

## COMPATIBLE SWABS

### QuickSwab

ATP QuickSwab is simple to use, all-in-one and pen-sized sampling device, with the pre-moistened swab that offers extraordinary accuracy and precision for many Industrial applications.



### LiquSwab

LiquSwab is an easy to use ATP liquid test work with Biolum Hygiene monitoring system from Tianlong. The swab is available in two formats: Free and Total. LiquSwab Free measures dissolved ATP that is free in liquid (non-microbial ATP). LiquSwab Total measures both free ATP and microbial ATP (non-microbial and microbial ATP) in the liquid. The difference between Total and Free provides an indication of microbial contamination in the samples.



## APPLICATION AREAS



Food Processors

- ▶▶▶ Cleaning control the process of production and processing
- ▶▶▶ Evaluating the disinfection of packaging
- ▶▶▶ Testing the microbes of finished products and material
- ▶▶▶ Monitoring the hygiene of processing environment



Health Care

- ▶▶▶ Objects superficial inspection of the hospital major department
- ▶▶▶ Hand cleaning check of the medical staffs
- ▶▶▶ Medical equipment cleanliness and disinfection inspection
- ▶▶▶ Cleanliness testing of the hospital environment



Food Service

- ▶▶▶ Cleanliness control of the kitchen,dishes,operating carton and tools
- ▶▶▶ Evaluating disinfection of dishes
- ▶▶▶ Disinfection control of the airline catering dishes
- ▶▶▶ Hygiene supervision for quality control department



Environment Protection

- ▶▶▶ Evaluating biological pollution of the water and wastewater sample
- ▶▶▶ Detecting the contaminating microorganisms of soil, activated sludge samples and so on



Other Industries

- ▶▶▶ Daily health products manufacture
- ▶▶▶ Quality supervision department
- ▶▶▶ Hospitality industry hygiene management
- ▶▶▶ The port supervision

## SPECIFICATIONS

Model	Biolum
Dimensions	189mmx70mmx35mm
Weight	280g
Detection Limit	10 <sup>-16</sup> moles ATP
Detection Deviation	±5% or±5 RLU
Self-calibration at Startup	15s or 60s
Real-time Detection Time	10s/test
Memory Capacity	256 test plans, 256 user IDs, 2000 test program and 10000 results
Communication Interface	USB, Bluetooth
Test Repeatability	8%-20%
Correlation Coefficient	R <sup>2</sup> ≥0.995
Power Supply	Rechargeable battery
Running Time	Continuously work for > 8hrs,standby for>600 hrs
Operating Temperature Range	5-40°C
Operating humidity Range	20-80%

### Swabs

Cat.No.	Swabs	Specification	Remark
A017H	QuickSwab	20pieces/package	Surface test
A010H	LiquSwab Total	20pieces/package	Liquid test (Total ATP)
A011H	LiquSwab Free	20pieces/package	Liquid test (Free ATP)

version 2.0

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