

Bring Technology to Life



Biolum Plus

Portable ATP Hygiene Monitoring System

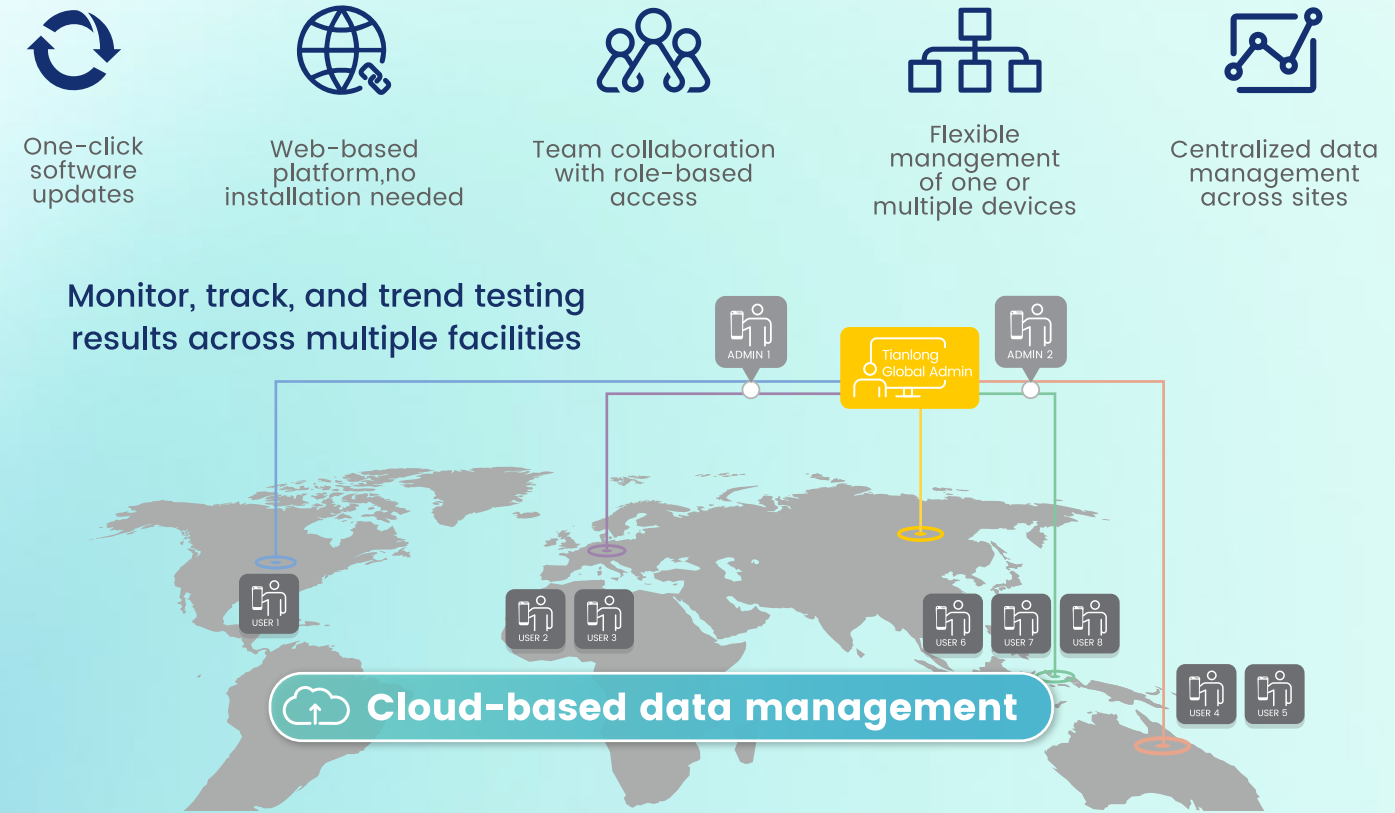
Your smarter hygiene safety guardian



As the upgraded member of Tianlong's ATP hygiene monitoring family, Biolum Plus takes hygiene monitoring to the next level. The progressive testing swab ensures reliable results within seconds, which are clearly displayed on screen for instant evaluation. With enhanced software design and cloud-based data management system, it offers a more intuitive and convenient operation experience.

SMARTER HYGIENE MONITORING, POWERED BY THE CLOUD

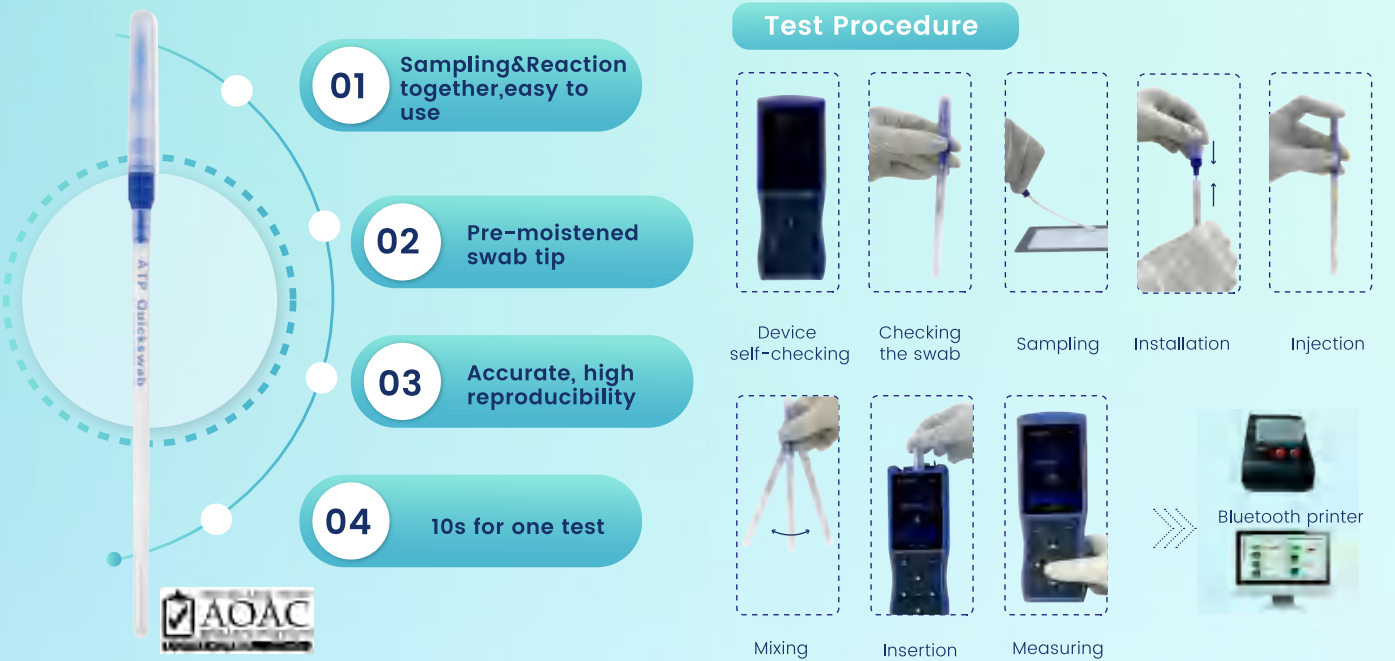
Tianlong cloud-based data management software connects easily with Biolum Plus to collect, analyze, and visualize ATP data from multiple devices—anytime, anywhere. It streamlines workflows, strengthens risk control, and enhances hygiene monitoring efficiency.



COMPATIBLE SWABS

QuickSwab

QuickSwab is a simple, all-in-one, pen-sized sampling device for surface cleanliness testing. It delivers exceptional accuracy and precision across a wide range of industrial applications.



LiquSwab

LiquSwab is a fast and reliable sampling tool designed for ATP testing in liquid samples. 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 LiquSwab Total and Free provides an indication of microbial contamination in the samples.



01 Easy to operate

02 10s for one test

03 12 month shelf life at 2-8°C, 4 weeks shelf life at 21-25°C

04 Detect ATP down to 10⁻¹⁶ mol

Test Procedure



Device self-checking



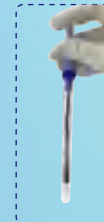
Checking the swab



Sampling



Installation



Injection



Mixing



Insertion



Measuring



Bluetooth printer

ACCESSORIES

EternalLight-H

ATP Detector Optical Calibrator

Biolum Plus will ensure the test accuracy every time turning on the self-check function. Also, the additional calibration can be used to verify the accuracy by EternalLight-H. This calibration verification device is highly compatible with Tianlong Biolum, Biolum Plus and Biolum Pro ATP hygiene monitoring system.



01 LED calibration verification device featuring negative and positive modes

02 Verifying as part of a quality control program and proving system working properly

03 Reusable device allowing for unlimited calibration verification

04 Powered by an easily replaceable coin battery

SPECIFICATIONS

Model	Biolum Plus
Dimensions	189mmx70mmx35mm
Weight	315g
Detection Limit	10 ⁻¹⁶ moles ATP
Detection Deviation	±5% or ±5 RLUs
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, WiFi
Test Repeatability	8%-20%
Correlation Coefficient	R ² ≥0.995
Power Supply	3.7V rechargeable lithium battery (charging limit voltage: 4.2V)
Running Time	Continuously work for 10 h, standby for 600 h
Operating Temperature Range	5-40°C
Operating humidity Range	≤80% RH

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

Calibrator	
Model	EternalLight-H
Service life	5 years
Battery	CR1025 lithium battery (3V)

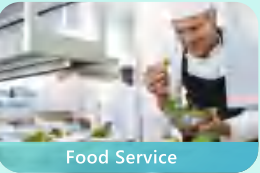
APPLICATION AREAS



Food Processors



Health Care



Food Service



Environment Protection



Other Industries



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