

# Biolum **Portable ATP Hygiene Monitoring System**

## Your reliable hygiene safety guardian



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. LiguSwab 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.



# ACCESSORIES

# **EternalLight-H**

#### LED Calibration Verification for ATP

EternalLight-H is a reusable device for quick and reliable calibration verification. We recommend incorporating instrument calibration into a quality control program to verify that the Biolum ATP continues to operate correctly and is under control. EternalLight-H provides an all-in-one, reusable positive and negative calibration verification, activated by the click of a button.

By pressing the button on the cap, EternalLight-H will emit a 3 seconds green LED light to indicate power on. Eternal-Light-H can be used as a positive control when on. In the off state, EternalLight-H can be used as a negative control to remind the user whether the null value is normal.



Test Procedure

### Negative test



Biolum self-checking



Press "OK" to start measurement



Checking the EternalLight-H

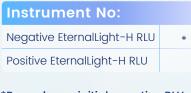


Record initial RLU results



Insert EternalLight-H into Biolum





\*Record your initial negative RLU. RLU range should be within 0-4. Positive test





Calibration





select in turn "Setting"-"Help"-"Calibration" Set the RLU value to 200 RLU





Insert EternalLight-H for calibration

Remove EternalLight-H and close the lid

# APPLICATION AREAS





Interpretation: record your initial positive RLU and negative RLU, if either of the RLU is not within the range, please start calibration.



Continue the calibration process until done



Press the button on EternalLight-H to turn device on



Take positive test to confirm





Environment Protection



**Other Industries** 

# SPECIFICATIONS

Model	Biolum	
Dimensions	189mmx70mmx35mm	
Weight	280g	
Detection Limit	10 <sup>-16</sup> 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	
Test Repeatability	8%-20%	
Correlation Coefficient	R ≥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%	

# Bring Technology to Life

#### 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)

#### Calibration Verification

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



**Tianlong Science and Technology** 

Mail: inquiry@medtl.com Phone: 86 029 82682132 Website: www.medtl.net Address: No. 4266 Shanglin Road, Xi'an, China

December 28, 2023 / Version 2.0