

# Ultra-Wide Range Luminometer

-Achieved a hundred billion range of ATP concentration based CLIA-



\*Specification and external appearance are subject to change without prior notice.

## > Main features

- Enables wide dynamic range measurement as high as  $10^{11}$  from extremely low light level region
- Suitable to measurement of samples with autofluorescence
- Applicable to extremely low light level measurement
- Possible to use commercial 10x10 square type cell
- Power supply as well as data transfer simply by connecting USB interface to PC

## > Examples of application

- Bioluminescence and living tissue luminescence (evaluation of stress response and environments)
- Measurement of circadian rhythm
- Agriculture breeding and food inspection
- Quantification of carry over in dispensing nozzle (cleaning inspection)

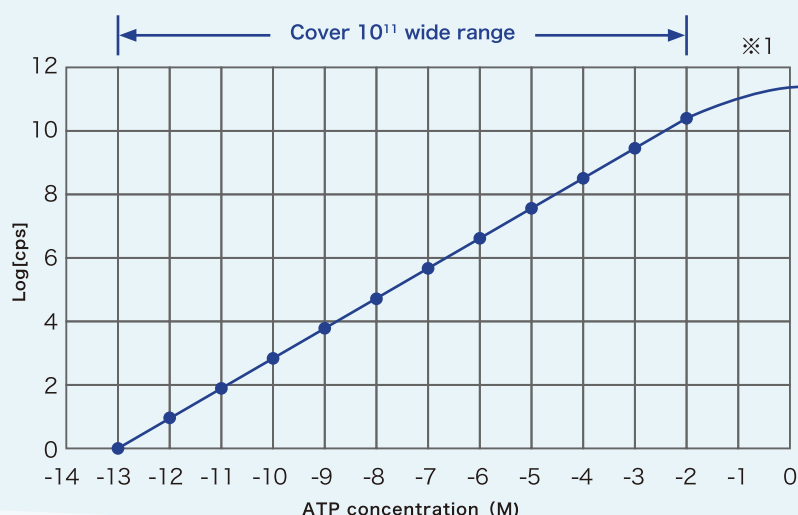
Should you look for any solution, please feel free to contact us at,

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## Result of ATP concentration and cps value measured by S009 luminometer.



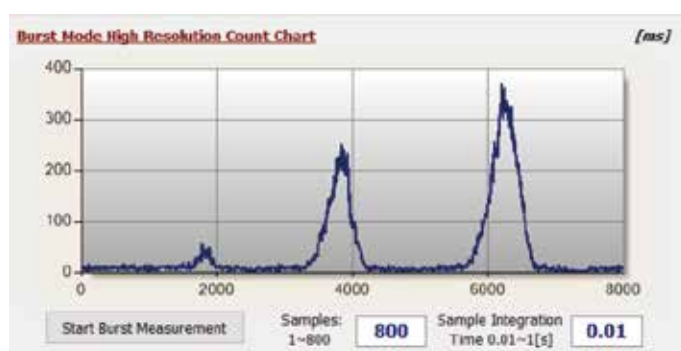
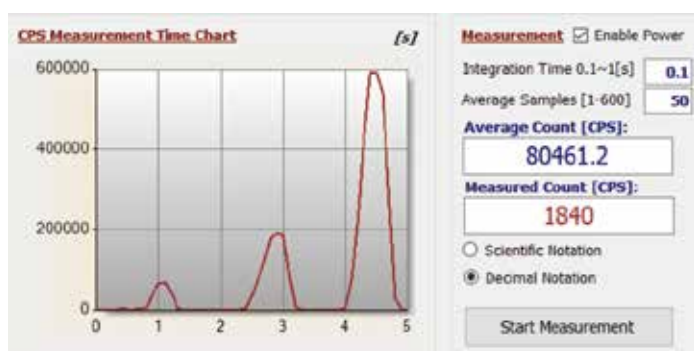
### [Measurement method]

Photon counting by S009 luminometer by measuring the luminescence of ATP solution with concentration of  $10^{-3}$  to  $10^{-13}$  M using Luciferin-Luciferase reagent produced by Kikkoman.

\*1

Up to ATP concentration  $10^{-3}$  M is an actual data with standard reagent.  
More than  $10^{-3}$  M concentration is measured data by LED light source calibrated.

## Software display (software is included as standard under Windows 10/64 bit)



Example of measured data (horizontal axis: Time, vertical axis: # of count)

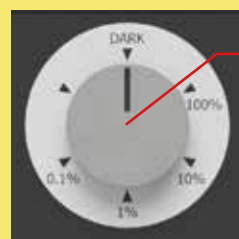
## Main specification

Optical module	Photon counter
Selection of filters	Manual wheel type 0% (Dark) 、0.1%、1%、10%、100%
Functional optical filters	Option on request (□50×t3、Φ25×t3、Φ12.5× t 3)
Interface	U S B 2.0 (cable included)
Power supply	Supply by PC via USB
Dimension(mm)	W(155)×H( 1 75)×D(270)
weight	Approximate 3.8kg
Standard cell	Path length 10mm、Width 10mm Cell size 12.5mm×12.5mm×45mm Cell capacity 3.5mL

## Easy handling



**Optical filter insertion port**  
Commercial filter can be used.



**Cell insertion port**  
Commercial 10x10mm square type cell and adaptors can be used.

**5 steps mode to be selectable**  
By turning a knob easily enables to select filters in 5 steps  
0%(Dark), 0.1%, 1%, 10%, 100%