

# Lu-mini

*Sensitivity, reliability and flexibility all within a sleek, compact design*



The Lu-mini is a robust, single tube luminometer optimized for the measurement of bioluminescent and chemiluminescent reactions. Its unique sample chamber accommodates a variety of sample formats including tubes, vials and cuvettes without the need for an adaptor. Unlike most handheld instruments, where factors such as sample measurement angle could affect the reading, the USB-powered Lu-mini ensures the best read possible every time. Accompanied by a PC app, the Lu-mini allows you to carry out in-depth data analysis to optimize assay protocols and performance with ease, ensuring you always get the most out of your data.

## Features

- ➔ No adaptors required
- ➔ Fast reading time
- ➔ Large data storage capacity
- ➔ Intuitive touchscreen
- ➔ USB plug & play
- ➔ Easy operation
- ➔ Compact and portable design
- ➔ Simple data back up

## Applications

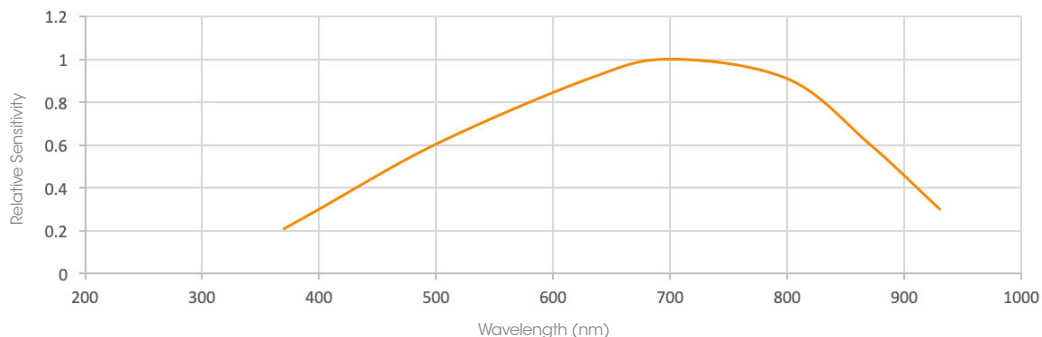
- ➔ Reporter Gene Assays
- ➔ ATP determination
- ➔ Hygiene monitoring
- ➔ Environmental analysis
- ➔ DNA probe assays
- ➔ Luminescent immunoassay (LIA)
- ➔ Mycoplasma detection
- And more...

# Technical specifications

## Performance specifications

<b>Spectral range</b>	370 to 930nm
<b>Detector</b>	Solid-state
<b>Measurement range</b>	Typical: $5 \times 10^6$ RLU - Maximum: $8 \times 10^6$ RLU
<b>Limit of detection</b>	$1.7 \times 10^{15}$ (1.7 femtomoles of ATP <sup>1</sup> )
<b>Linearity</b>	6.71 logs (RLU), $R^2 = 0.9994$
<b>Dynamic range</b>	6.90 logs (RLU)
<b>Sensitivity</b>	$1.7 \times 10^{15}$ (1.7 femtomoles of ATP <sup>1</sup> )
<b>Sample formats</b>	Round bottomed tubes 10-15 mm x 47-75 mm Flat bottomed vials 15 mm x 48 mm Square cuvettes 12.5mm x 45 mm
<b>Read modes</b>	Standard, dual point, peak detect, kinetic data
<b>Data storage</b>	Up to 1000 results
<b>Temperature</b>	Storage -10 to +50 °C Operation +15 to +35 °C
<b>Humidity</b>	20% to 85% non-condensing

## Spectral response



<sup>1</sup> Tested with BioThema 12-101 ATP Reagent HS in BioThema 24-101 Diluent D: A flash emitting reagent with a decay rate of around 12 % per minute.

## General specifications

<b>Interface</b>	USB
<b>DC Power source</b>	5V USB, 1.0A max
<b>AC Power adaptor</b>	100~240V, 50 to 60Hz
<b>PC software</b>	Windows® compatible PC
<b>Operating system</b>	Windows® 7, 8 and 10
<b>Dimensions (cm)</b>	16 (W) x 23.5 (D) x 14 (H)
<b>Weight</b>	1.9 kg
<b>Warranty</b>	1 year
<b>Regulations</b>	CE, MET, FCC

## Ordering information

**V301001 Lu-mini**

Did you know? The Lu-mini's flexible user interface is fully customizable allowing OEM partners to utilize their own reagents, disposables and protocols. Contact us to discover how we can provide bespoke solutions to meet your unique requirements.

