

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

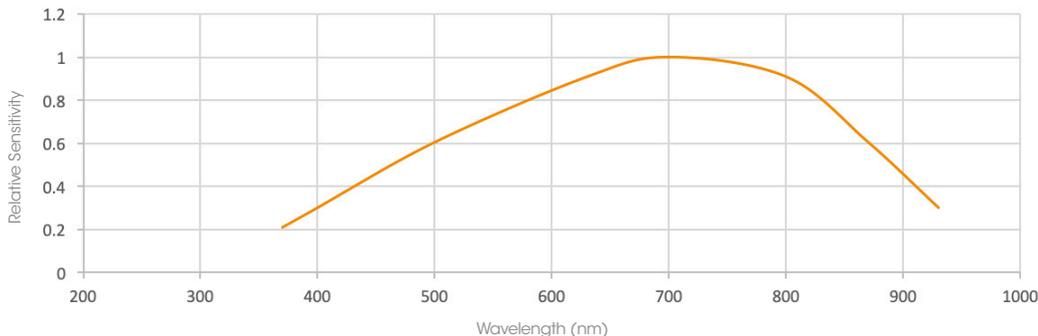
- ➔ Reporter Gene Assays
- ➔ ATP determination
- ➔ Hygiene monitoring
- ➔ Environmental analysis
- ➔ DNA probe assays
- ➔ Luminescent immunoassay (LIA)
- ➔ Mycoplasma detection
- And more...

Technical specifications

Performance specifications

Spectral range	370 to 930nm
Detector	Solid-state
Measurement range	Typical: 5×10^6 RLU - Maximum: 8×10^6 RLU
Limit of detection	1.7×10^{15} (1.7 femtomoles of ATP ¹)
Linearity	6.71 logs (RLU), $R^2 = 0.9994$
Dynamic range	6.90 logs (RLU)
Sensitivity	1.7×10^{15} (1.7 femtomoles of ATP ¹)
Sample formats	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
Read modes	Standard, dual point, peak detect, kinetic data
Data storage	Up to 1000 results
Temperature	Storage -10 to +50 °C Operation +15 to +35 °C
Humidity	20% to 85% non-condensing

Spectral response



¹ 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

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

