

# Sirius II Single Tube Luminometer

Advanced Touchscreen Operation



### **Sirius II** Single Tube Luminometer



#### **Sensitive**

Detects less than 0.5 zmol of firefly luciferase.

#### Stand-alone

Integrated touchscreen software with advanced capabilities.

#### **Connected**

Results can be exported to a USB stick or printed, even to network printers.

Operation via PC software is also available.

# **Unmatched flexibility**

Flash or Glow: up to two reagent injectors. Touchscreen orientation according to your preferences, wide range of sample formats.

# **Multilingual**

In addition to the English default language, more languages are available.

# Always up to date

Install available updates from a USB memory stick, just with tapping the "update" button.

#### Wide range of applications

The Sirius II is the perfect choice for all luminescent flash and glow applications performed in single sample format, for example:

- · Reporter gene assays, including dual-reporter assays
- · Rapid detection of mycoplasma contamination in cell cultures: Lonza MycoAlert™
- · ATP assays
- · Cell proliferation, cytotoxicity and biomass assays
- · Apoptosis assays
- · Cellular luminescence/reactive oxygen species
- · Environmental toxicity and mutagenicity assays

#### Supersensitive detector

The Sirius II detects less than 0.5 zmol of firefly luciferase. Light collection is maximized through the proximity of the sample to the detector and the use of optimized light reflectors surrounding the sample vial.

#### **Quickstart capabilities**

Closing the sample drawer automatically initiates the measurement with no need to press any key. The automatic light shutter protects the detector from ambient light, making the instrument ready to measure from the moment the door is closed.

#### Integrated touchscreen software with advanced capabilities

The touchscreen-driven software is very intuitive and operated by touch gestures. It offers advanced features, such as handling of replicates, dual assay calculations, and display of graphics. Results can be exported for further calculation in Excel or other programs.

#### Sample formats

The sample chamber is designed for performance and flexibility. It accommodates a variety of vial types, from 35 mm petri dishes to Microfuge® format to 20 ml vials; there is virtually no limit.

#### **Injector options**

The instrument is available with up to two syringe-type automatic reagent injectors. The injection volume range is  $20-500\,\mu$ l. Ready to go sample holders for precise injection are available for 1.5 ml and 2 ml Microfuge® tubes, as well as for  $12\,x\,55$  and  $12\,x\,75$  mm tubes (standard format for most luminescence assays).

#### Tools are available for regular validation of the instrument

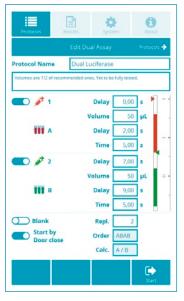
The Luminescence TestTube provides stable light output within the measurement range and can be used to verify the performance of the luminometer.

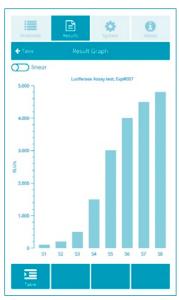
# **The Next Generation Tube Luminometer**





The Sirius II's integrated computer may be positioned in a way that is convenient for you and your laboratory.







Protocols and results are graphically represented in a clear and intuitive way

A wide range of sample formats can be used, from standard luminescence tubes to  $35\,\mathrm{mm}$  petri dishes

# Sirius II Single Tube Luminometer 161107

# Sirius II Technical Data

Luminometer	
Sample Format	12 x 75 mm or 55 mm tubes, 1.5 and 2 ml microfuge tubes, 35 mm culture
	dishes, liquid scintillation vials up to 20 ml.
	Injection operation with $12 \times 55$ and $12 \times 75$ mm tubes and 1.5 and 2.0 ml
	Microfuge® tubes
Detector	Photon counting PMT, spectral range: 300-600 nm
Measurement Chamber	Retractable drawer with interchangeable reflectors and sample adapter
Sensitivity	Better than 0.5 zmol firefly luciferase, 1 amol ATP in a HS ATP assay
Dynamic Range	6 decades
Interfaces	USB or RS 232 interface for PC connection
Injector	0, 1, 2 (upgrade possible)
Injection Volume	20–500 µl adjustable in steps of 1 µl
Tubing	Chemically inert PTFE tubing and connections (PTFE or KEL-F)
Dimensions (HxWxD)	45.6 x 34.9 x 15 cm / 18 x 13.7 x 5.9 inch
Weight	5.3 kg / 11.7 lb (without injectors)
Power Requirements	Desktop power supply and power cord. 100–240 V AC, 24 V/2.5 A DC
Environment	Storage 0-40° C up to 80% humidity (@30° C), non-condensing
	Operation 10–35° C up to 70% humidity

Integrated computer

integrated computer	
Standalone operation	Integrated computer with built-in software
Display	7" capacitive touch, gesture control, 480 x 800 pixels
Software protocols	Quick Measurement, Single Assay, Dual Assay and Wash & Prime protocol
External interfaces	2x USB 2.0, 1x Ethernet
Printer interface	Network or USB printing (PCL6 or Postscript 3)
Data export	By USB memory stick; CSV (Excel), PDF, HTML formats

Ordering Info

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110 403 10	Sirius II-0
	Single Tube Luminometer with touchscreen operation
110 403 11	Sirius II-1
	Single Tube Luminometer with one reagent injector, touchscreen operation
110 403 12	Sirius II-2
	Single Tube Luminometer with two reagent injectors, touchscreen operation

Specifications subject to change without prior written notice. For research use only. Please inquire for IVD versions.

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