

# *LUmo*

*Innovative Instruments Microplate Luminometer*



*Quality*

*Affordability*

*Reliability*

*Sold and serviced in the US by Innovative Instruments Inc.*



# LUMO

Innovative Instruments' **LUMO** is a state-of-the-art microplate luminometer designed to meet the demanding requirements of today's microplate based, glow luminescence applications.

## Special Features

✓ **Very low crosstalk**

**LUMO** incorporates a sophisticated adaptive positioning system, keeping the detector as close as possible to the sample eliminating instrument related crosstalk and optimizing sensitivity and dynamic range.

✓ **High sensitivity and wide dynamic range**

Combining sensitivity and dynamic range, **LUMO** gives you the possibility to perform a wide variety of routine and scientific applications.

✓ **Measurement Speed**

Less than 40 seconds to measure a 96-well plate at 0.1 sec integration time.

✓ **Accommodates 96- and 48-well microplates**

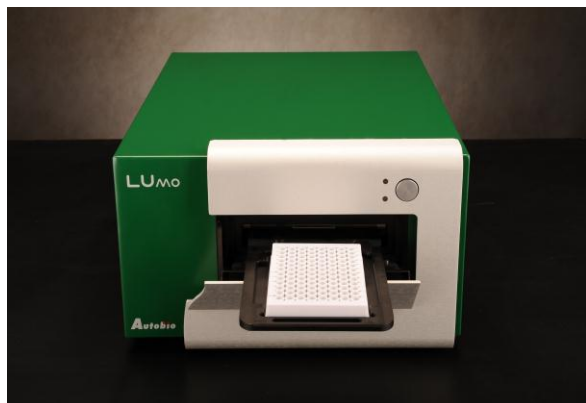
The plate carrier system is designed to accommodate all kinds of 96- and 48-well microplates without an additional adaptor required.

✓ **Autosoft - control and evaluation software**

**LUMO** includes Autosoft, a full-featured Windows® based control and data reduction software package.

### Main applications

Thyroid Hormones | Tumor Markers | Reproductive Endocrinology | Diabetes | Infectious Disease | Cardiac Markers | Adrenal/ Pituitary | Bone Metabolism | TDM | Anemia | LIA Other Analytes | Reactive Oxygen Species (ROS) | Ion channels / GPCR's | Two-Hybrid / Protein – protein interaction | Apoptosis / Cell viability / Cell cytotoxicity | ATP determination |



Parameter	Value
Plate Types	96-well and 48-well (4x12) microplates, max. height 15.2 mm
Detection system	Photomultiplier Module
Detection Mode	Glow Luminescence
Spectral Range	300 to 600 nm
Dynamic / Indication Range	0 – 1,600,000,000 RLU
Measurement unit	RLU (Relative Light Units)
Sensitivity at 545nm	$1 \times 10^{-23}$ mole HRP
Repeatability	< 2%
Crosstalk	$< 1 \times 10^{-7}$
Measurement time	Typically < 40 seconds at 0.1 sec. integration time for a 96-well plate
Integration time	0.1 - 10 sec in 0.1 sec increments
Shaking	3 modes
Dimensions	33.5 cm x 20.5 cm x 47.0 cm (W x H x L)
Weight	13.0 kg net
Power supply	External voltage range: 90-130 V and 180-250V, 47 – 63 Hz (autosensing)
Data connections	Serial Interface RS232 (9-pin), QC Data can be added automatically or manually.
Operating temperature	10°C to 40°C humidity: 15%-75% RH non-condensing