



LuBj

TECHNICAL SPECIFICATION

Limit of Detection	3.0 x 10 ⁻²¹ moles of Luciferase 1.0 x 10 ⁻¹⁹ moles of ATP
Linear Dynamic Range	> 1.0 x 10 ⁷
Crosstalk (white microplate)	< 3.0 x 10 ⁻⁵
Detector	Photomultiplier Tube (PMT)
Spectral Response Range	350 – 650nm
Peak Wavelength	420nm
Injectors	Up to 2 (optional)
Injection Volume	25 – 1000µl
Injector Precision	CV < 1%
Injection Increment	1µl
Connection Method	USB
Power	AC 85 – 264V / 0.5A / 150W
Dimension	L544mm x W561mm x H275mm
Weight	28.6kg
Operating Temperature	15 - 40°C
Warranty	1 Year

MODELS

Sample Capacity	Cat. No.	No. of Injectors
Multiplate (6, 12, 24, 48, 96)	MD-3-40-LUBM-101	0
	MD-3-40-LUBM-201	1
	MD-3-40-LUBM-301	2

LuBj

Microplate Luminometer



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 **MicroDigital Co., Ltd.**

LuBj Microplate Luminometer

Smart Measurement

- **Precise Measurement**
Quick, Reliable and Precise
Accurate Data Collection
- **Superior Sensitivity**
Photon-counting Photomultiplier Tube (PMT) and Noise Reduction Circuitry using MicroDigital's own PhotoFlat™ detects and distinguishes infinitesimal amount of light



Simple Usage

- **Minimal Maintenance & Simple Operation**
Accessible and visible injectors allow convenient maintenance and cleaning
- **Intuitive & Flexible Interface**
 - Customizable protocol and detection modes
 - Excel-based data recording and exporting



Superb Accessibility

- **Unrestricted Plate Selection**
Analyze using any commercially available microplates
- **Superior Sensitivity**
 - Kinetic and End-point detection for your application
 - Various formats of matrix scanning from single center-point to orbital with varying diameters



Possible Areas of Application

Reporter gene analysis
Cell proliferation & cytotoxicity
Apoptosis assays
ATP assays
Aequorin-based assays
Cellular luminescence
Environmental toxicity

Sensible Application

- **System-Integrated Assays**
 - Efficiently designed waste-free reagent bottles
 - User-designed protocol
- **Internal Auto-Injection System (optional)**
High quality syringe-type injector pumps show excellent reliability for any levels of throughput