

LEOI-36 Apparatus of Silicon Photocell Characterization

- Compact and vertical structure with low stray light impact
- Brightness adjustable Tungsten lamp
- 4 photocells (monosilicon and polysilicon)
- Pitch angle adjustable for different illumination angle of light



This experimental system is designed to help understand the fundamental characteristics and primary parameters of a Silicon photocell. Students are required to design and build optical and electrical configurations to conduct various experiments so that their hands-on skills can be enhanced. This system can be used to conduct the following experiments with Silicon photocells:

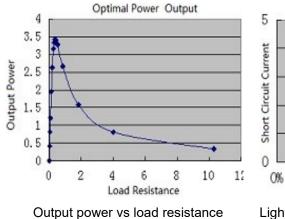
- 1. Short-circuit current, open-circuit voltage, max output power, optimal load and fill factor under light illumination.
- 2. V-I characterization of photocells in the absence of light illumination with bias voltage applied.
- 3. Short-circuit current versus open-circuit voltage of photocells under different light intensities.
- 4. Open-circuit voltage versus short-circuit current of photocells under different illumination angles.
- 5. Serial and parallel characteristics of photocells.

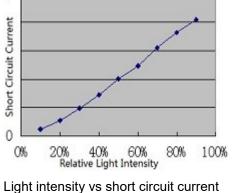
Construct, Conduct & Comprehend Physics Experiments

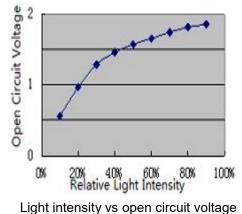
A lambda

Part List

Photocell platform	1
Photocell	4
60 cm wire	2
30 cm wire	2
60 W bulb	2
Electric controller	1
Light shield plate	1
Instructional manual	1







Note: above product information is subject to change without notice.

Lambda Scientific Systems, Inc. 16300 SW 137th Ave, Unit 132 Miami, FL 33177, USA Phone: 305.252.3838 Fax: 305.517.3739 E-mail: sales@lambdasys.com Web: www.lambdasys.com