

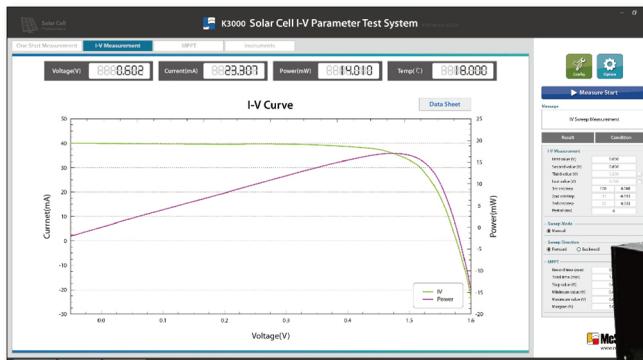
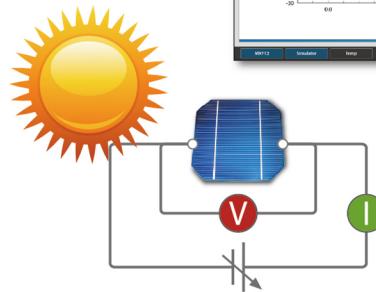
K3000**Electrical, Optical & Thermal
Imaging & Test Systems**

Solar Cell I-V Parameter Test System

Standard Test Equipment for Solar Cell Conversion Efficiency Measurement

This system provides total package for standard measurement of solar conversion efficiency including solar simulator with various irradiation area, photovoltaic powermeter with various current range, test jig and measurement software.

Solar Simulator + **I-V Test** + **Solar Efficiency** + **MPPT** + **LID**



Class AAA Solar Simulator

High Speed I-V Test

Solar Conversion Efficiency

Maximum Power Point Tracking (MPPT)

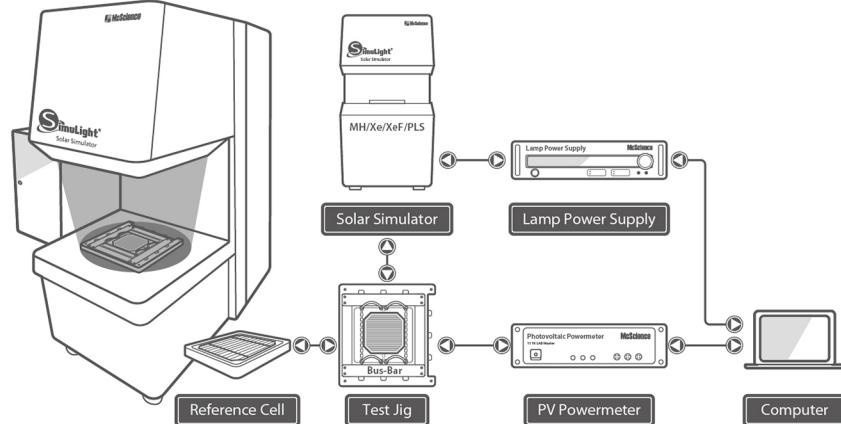
Light Induced Degradation (LID)

Standard/Custom Test Jig

The McScience logo, featuring a stylized orange and red graphic followed by the company name in a bold, black, sans-serif font.

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System Configuration



System Components



System Specification

Model Name	K3000 Solar Cell I-V Parameter Test System
System Model	Xe : Xenon Lamp / MH : Metal Halide Lamp / PLS : Plasma Lamp / LD : LED Lamp
System Configuration	Solar Simulator, Lamp Power Supply, Source Measure Unit or Powermeter, JIG, Reference Cell, Data Processing Unit
Illumination Area	50mm x 50mm (LD), 55mm x 55mm (Xe), 170mm x 170mm (Xe), 300mm x 300mm (LD,Xe,PLS), 1000mm x 1000mm (Xe)
Illumination Light Spectrum	0.75 ~ 1.25% (AM 1.5G)
Illumination Light Uniformity	<2%
Illumination Light Stability	<0.5 % (STI), <2% (LTI)
Voltage Range / Accuracy	-20V ~ 20V / 0.1% Accuracy
Current Range / Accuracy	±20A, ±2A/±200mA, ±20mA/±2mA, ±200uA / 0.1% Accuracy (Multi-Range)
One Step Measurement Time	0.1 usec ~ 1 sec
Maximum Measure Point	200 Points
Measurement Data	Voltage, Current, Temperature, Irradiance (Ref)
Analysis Item	Isc, Voc, Imax, Vmax, Pmax, FF, Efficiency, Rs, Rsh, Hysteresis Option (MPPT, LID)