

# K3100

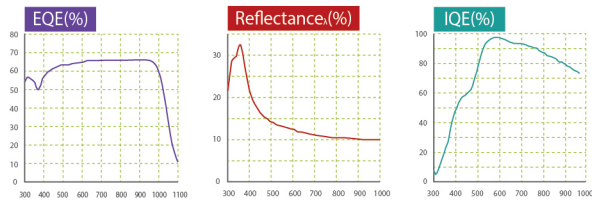
## Solar Cell IPCE Measurement System

Test Systems On Demands  
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### Standard Test Equipment for Solar Cell Quantum Efficiency Measurement

The ratio of incident photons to collected electrons in output current is calculated as external quantum efficiency of solar cell based on standard spectral response measurement. Optional instruments allows reflectance measurement and internal quantum efficiency measurement, and automatic positioning.

Spectral Response + EQE + IQE + NIR



### Spectral Response

### Incident Photon to Current Efficiency

### External Quantum Efficiency

### Internal Quantum Efficiency

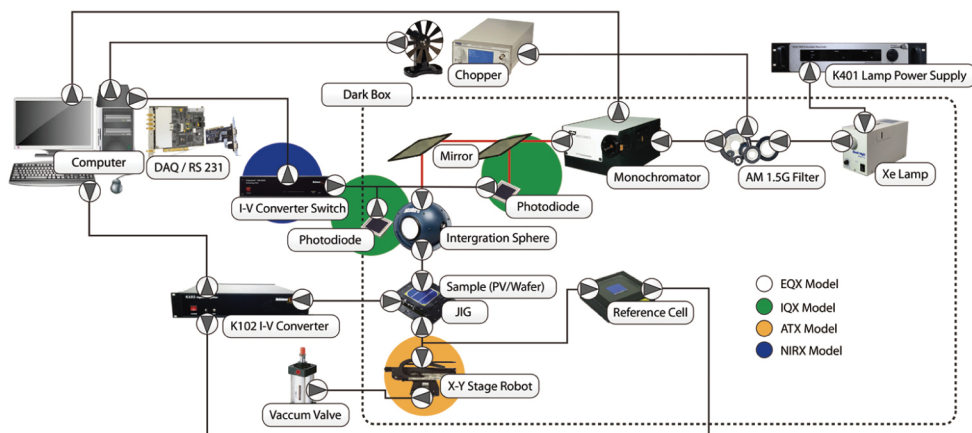
### NIR Measurement

### Automatic Scanning / Positioning

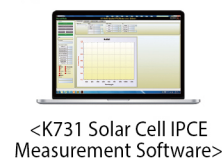
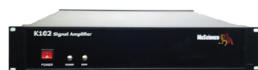
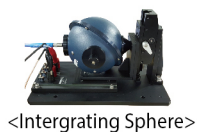


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## System Configuration



## System Components



## System Specification

Model Name	K3100 Solar Cell IPCE Measurement System
System Model	EQX : External Quantum Efficiency / IQX : Internal Quantum Efficiency / ATX : Surface Relectance / NIRX : NIR External & Internal Quantum Efficiency
Wavelength Range	EQX : 300nm ~ 1,100nm / NIRX : 300nm ~ 1,500nm
Optical Chopper	1 ~ 99Hz(2blade)
System Configuration	Light Source(Xe Lamp), Lamp Power Supply, Monochromator, Filter Wheel, Signal Amplifier, Chopper, Halogen Lamp, PC
Measurement	StartWave, ErdWave, StepWave, Number of Average, Delay(msec), IdpR, IdpS, I-Ref, I-Sample, Current(A), Frequency(Hz), Reflectance(%)
Dimension	Size(mm) : (W)1,200mm x (D)800mm x (H)1,000mm, Weight(Kg) : <650Kg, Utility : 220V
Test Sample	Solar Cell, Electro Chemistry
Beam size	1.2mm ~10mm