

DSR600

DSR600 Spectral Responsivity Calibration System

DSR600 automates spectral responsivity and quantum efficiency characterisation for UV, visible and near-infrared detectors. Configurations cover 200-2500 nm and support photovoltaic devices, bias-dependent I-V and tandem-cell EQE measurements.

Best for: Detector and photovoltaic materials research across UV, visible and near-infrared wavelengths.



200–2500 nm

Configured coverage

SR & QE

Primary measurements

Light / dark I–V

Electrical tests

Bias-light EQE

Tandem cells

Overview

DSR600 records photocurrent as a function of wavelength and calculates spectral responsivity and quantum efficiency against calibrated references. Source and detector selections determine the usable range for each experiment.

Selective bias illumination enables subcell EQE measurements in tandem photovoltaics. Reflectance, transmittance and device stability measurements extend the characterisation workflow.

Features

- Automated spectral scanning and calculation
- Internal and external quantum efficiency with integrated Jsc
- Optical and electrical bias measurements

Applications

- Si, Ge, InGaAs, GaN, SiC and wide-bandgap detectors
- Perovskite, silicon and organic photovoltaics
- Tandem-cell subcell response and device stability

Specifications and configuration

Measurement capability	
Configured wavelength coverage	200–2500 nm, depending on selected sources and reference detectors
Spectral measurements	Photocurrent, spectral responsivity, EQE and IQE
Photovoltaic analysis	Integrated Jsc and tandem subcell EQE with bias illumination
Electrical measurements	Light and dark I–V under applied bias
Additional functions	Device stability, reflectance and transmittance

Configuration and quotation

Share the sample size, wavelength range and required measurements to select the source, optics and acquisition modules.

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www.precisometer.com/spectroscopy/photoelectric-testing/dsr600