

SCS1000

SCS1000 Automated Quantum Efficiency System

SCS1000 is an integrated quantum efficiency platform with software-controlled measurement modes, reference-detector switching and spot selection. Measures spectral response, EQE and IQE with optional reflectance, transmittance and mapping functions.

Best for: Automated photovoltaic characterisation with configurable acquisition and sample fixtures.

**< 1 mm**

Minimum spot

**Automated
switching**

Operation

AC / DC

Acquisition options

800 × 900 × 1400 mm

Dimensions

Overview

SCS1000 combines illumination, sample handling and acquisition in a mobile enclosure. Software switches AC/DC modes, reference detectors, spot sizes and optical paths, reducing manual changes between measurements.

Reference detectors and acquisition modules define the working wavelength and signal ranges. Select the sample fixture for cell size, electrode layout and environmental requirements.

Features

- Reflective optics and camera-assisted positioning
- Spectral responsivity, EQE, IQE, IPCE and integrated Jsc
- QE, reflectance and light-beam-induced-current mapping options

Applications

- Single-junction and tandem photovoltaic devices
- Silicon, organic, polymer and perovskite cells
- Automated research and production quality measurements

Specifications and configuration

Platform and options	
Dimensions	800 × 900 × 1400 mm
Minimum spot diameter	< 1 mm
Optical sources	Stabilised xenon and tungsten-halogen configurations
Reference-detector options	Si: 300–1100 nm or 200–1100 nm; InGaAs: 900–1700 nm or 900–2500 nm
Automation	AC/DC mode, reference detector, spot size, optical path, chopping frequency and wavelength
Sample handling	Select the fixture to match sample and electrode geometry

Configuration and quotation

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

info@precisometer.com

www.precisometer.com/spectroscopy/photoelectric-testing/scs1000