IQE-200B Quantum Efficiency Measurement Solution:

The IQE 200B empowers researchers to measure Internal Quantum Efficiency (IQE) and quantify External Quantum Efficiency (EQE), also known as Incident Photon to Charge Carrier Efficiency (IPCE), for any photovoltaic device. Employing industry leading, durable components for optical performance, the IQE 200B is preconfigured, assembled, and calibrated at the factory. The product is a turn-key solution which includes all necessary components with integrated light source, monochromator, detectors, electronics, software, and even the computer.

PERFORMANCE SPECIFICATIONS

Light Source	100W Xenon lamp
Spot Size	0.76 mm x 1.0 mm rectangular at focus
Working Distance	85 mm
Wavelength Range	350 - 1100 nm (300 - 1100 nm with moderated precision)
Spectral Bandwidth of Monochromator Output	5 nm minimum
Wavelength Repeatability	±0.5 nm
Monochromator Filters	Automated, 5-position filter wheel
Signal Acquisition	Chopper with virtual lock-in amplifier
Chopper Frequency	4 Hz minimum
QE Calibration Test Cell	Included
Reflectance Calibration Standards	Included
Computer	Included; Dell Latitude (recent model)

ELECTRICAL / MECHANICAL SPECIFICATIONS

Input Voltage	100 - 240 VAC
Input Frequency	48 - 66 Hz
Power Consumption	400 W
Power Supply Operating Mode	Constant current or constant power
Ambient Operation Temperature	23 ± 5 °C (72 ± 8 °F) lab environment
Weight	70 lbs. (31.8 kg.)
Dimensions (m) (W x D x H)	0.85 x 0.39 x 0.49 (33.3 x 15.4 x 19.1 in)

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