# SC 6000 SYSTEM CONTROLLER

## Compact, flexible, out-of-the-box programmable radiometer/photometer



SC 6000 SHOWN WITH DETECTOR

#### COMPREHENSIVE

Labsphere's SC 6000 System Controller is a programmable radiometer/ photometer that allows for up to 100 programmed calibrations. Labsphere will calibrate the SC 6000 to monitor luminous and radiant flux, luminance, radiance, intensity, illuminance and irradiance, making it an integral component of any calibration system.

Use the SC 6000 across a range of applications such as a uniquely designed imaging calibration instrument, a lamp measurement photometer, or a laser power measurement system.

#### FEATURES:

Compatibility with Si, Ge, InGaAs, and many other photovoltaic detectors

Dynamic Range of 8 Decades of Sensitivity

Stores up to 100 Photometric and Radiometric Calibration Constants

32 Output Lines for Computer Control of System Peripherals

TC/IP, DHCP Computer connections

#### **BEST FOR:**

Controlling Calibration Systems

Photometric and Radiometric Monitoring of Camera Calibration Systems Lamp Measurement

Photometry

Laser Power Measurement

#### FLEXIBLE DESIGN

The SC 6000 is both a highly flexible, programmable radiometer/photometer and a system controller. The integrated microprocessor-based controller is the communication hub for Labsphere's power supplies. With a variety of interchangeable detector assemblies, integrating spheres and components, light sources, and power supplies, you are able to create, upgrade, or expand a calibration system in minutes.

#### OUT-OF-THE-BOX SOPHISTICATION

The SC 6000 operates out-of-the-box. A 64-digit backlit LCD display allows you to view measurement results, select calibration factors, and set display features and remote communication parameters.

Operation features include up to 100 programmable optical radiation calibrations, manual and auto ranging, digital or analog display, digital filtering, 5-digit display, display zero, and display normalization display.



SC 6000



### Specifications

Model and Description SC 6000 System Control Radiometer/Photometer

#### **Properties and Performance**

Current Dynamic Range Display Resolution Maximum Reading Rate Input Input Connector Input Bias Input Impedance Compatible Detectors ADC Resolution Nonlinearity Temperature Coefficient Operating Environment

Calibration Calibration Factors Power Requirements Computer Interface Weight Dimension W x D x H

#### Compatible Labsphere Detectors

SDA-050-U-RTA-CX SDA-050-P-RTA-CX IDA-050-RTA-CX IDA-EXT-050-RTA-CX GDA-050-U-RTA-CX

8+ decades; 1pA - 20mA 5 digits 5 readings/second Single Channel BNC +14 VDC Selectable  $0 \ \Omega \ Single \ ended$ Photovoltaic (Si, Ge, InGaAs) 16 bits ±1 count  $\pm$  (0.02% of reading + 0.5 counts) per °C 0° to 50°C, 0% to 70% relative humidity at 35°C Digital factors are stored in the ROM memory 2 to 100 programmable coefficients 12 VDC, 750 mADC maximum AC/DC Converter Provided 90 ~ 264 VAC, 47 ~ 63 Hz TCP/IP, DHCP 4.1 lbs (1.86kg) 1.75 x 8.25 x 10.5 in (4.4 x 20.9 x 26.4 cm)

Order Number

AS-02702-000

Silicon Detector Assembly	AS-02522-400
Photopic Detector Assembly	AS-02522-401
InGaAs Detector Assembly	AS-02522-402
Extended InGaAs Detector Assembly	AS-02522-403
Germanium Detector Assembly	AS-02522-404

