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## Sekonic C-7000 Spectrometer Light Meter Kit



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### Product Downloads

### General

**Range:**  
Ambient: 1 - 200,000 Lux, 0.09 - 18,600 footcandles  
Flash: 20 - 20,500 lx⋅s; 1.86 - 1,900 fc⋅s

**Type of Display:**  
4.3" (10.9 cm) color dot matrix touch panel LCD with backlight

**Model Number:**  
C-7000 bundle

#### Contents of Kit:

C-7000 Spectrometer  
Hard Case with Foam Interior  
Calibration Certification  
Deluxe Printed Manual  
Mini B to USB Cable (for communication with a PC)

#### Calibration:

Class A of JIS C 1609-1: 2006 "Illuminance meters  
Part 1: General measuring

#### Units:

Correlated Color Temperature (Tcp), Deviation ( $\Delta uv$ ), Tristimulus value (XYZ/ $X_{10}Y_{10}Z_{10}$ ), CIE1931/1964 ( $x_{10}y_{10}z_{10}$ ), CIE1976 ( $u', v' / u'_{10}v'_{10}$ ), Dominant wavelength ( $\lambda_d$ ), Excitation purity (Pe), Peak wavelength ( $\lambda_p$ ), Lux(lx) or Foot-Candle(fc) – ambient light, Lux

#### Response Time (s):

Ambient: Auto - Max.: 15 sec., Mn.: 0.5 sec.; Manual - 0.1s, 1sec.  
Flash: 1s to 1/500s (in 1 step)

## Physical & Mechanical Properties

#### Weight (g):

230 (without batteries)

#### Dimensions (mm):

73 x 183 x 27

#### Accuracy (%):

Illuminance:  $\pm 5\% \pm 1$  digit (5 lx to 3,000 lx)  
 $\pm 7.5\% \pm 1$  digit (over 3,000 lx); x, y:  $\pm 0.003$  (800 lx)

## Optical Properties

#### Wavelength Range (nm):

380 - 780

## Sensor

#### Type of Sensor:

CMOS linear image sensor

## Hardware & Interface Connectivity

#### Power Supply:

2 x 1.5V Alkaline Batteries Included, USB Power

## Environmental & Durability Factors

#### Operating Temperature (°C):

-10 to +40

#### Storage Temperature (°C):

-10 to +60

## Additional Info

#### Display Language:

English, Japanese, Chinese (Simplified)

#### Compatibility:

Connect to PC via USB Cable

## Regulatory Compliance

#### Certificate of Conformance:

[View](#)

## Product Details

- Able to Measure LED, Fluorescent, Flash, and Natural Light
- Handheld and Portable for Ease of Use
- Ideal for Measuring Light in Industrial and Scientific Environments

Sekonic Spectrometer Light Meters are compact, handheld instruments designed for precise light and color measurement in industrial and scientific environments. Combining the capabilities of a spectrometer, light meter, and color meter, the Sekonic C-7000 and C-4000 models deliver accurate illuminance readings, color parameters, spectral characteristics, and more.

The C-4000 is optimized for on-site use, offering a user-friendly interface and essential spectral data collection—ideal for basic lighting evaluations in industrial settings. The more advanced C-7000 features higher resolution, extended measurement capabilities, and advanced data logging capabilities for detailed analysis and quality control. Sekonic Spectrometer Light Meters are trusted across many applications such as display calibration in manufacturing, light monitoring in life science experiments, and illumination control in defense and aerospace systems.

#### What do Sekonic spectrometer light meters measure?

They measure illuminance, color parameters, and spectral distribution from various light sources, including LED, fluorescent, and natural light.

#### What are the main differences between the C-7000 and C-4000 models?

The C-4000 is great for quick, on-site evaluations with essential spectral data. The C-7000 offers more measurement capabilities, higher resolution, and advanced logging options. Both provide measurement ranges of 380–780nm.

#### Can these meters be used for LED lighting?

Yes, both models are ideal for analyzing modern LED lighting systems in manufacturing, life sciences, and QA environments.

#### Are Sekonic meters color meters or exposure meters?

Both models function as Sekonic exposure meters, color meters, and spectrometers, providing comprehensive light and color analysis.

#### Do they support data export or computer connection?

Yes, both offer USB data export via PC or Mac. The C-4000 also offers Bluetooth connectivity via the Sekonic LD app for [iOS](#) and [Android](#). Depending on your region, you may not be able to download SEKONIC LD.