

PRECISION COLOR CONTROL EXPANDED COLOR INTERPRETATION FOR EVERY LIGHT SOURCE AT THE TOUCH OF YOUR FINGER

The gap between still and motion image capture has narrowed considerably, and so has lighting and the ability to control it. Now both still and motion shooters are faced with the choices and challenges of conventional and emerging light sources. With the many sophisticated and versatile camera's available today, a new generation of image capture talent has entered the field. New camera and lighting technology has lead the way to media content that has never before been possible. New challenges, especially in lighting and specifically in color consistency have hindered the creative flow of many studio and on-locations productions. Reproducing colors as they appear in the image has always been the essential goal and dream in photography and cinematography since its inception.

Today's digital shooters remain unchanged in their desire to control color precisely, while the diversity of light sources is ever-changing. With the popularity of LED lighting, the need for a spectrometer that can measure it and all light sources has become critical to ensure accurate color fidelity.

The NEW Sekonic SpectroMaster C-800 takes the urgency for precision color control, expanded color interpretation and the need to measure all light sources to the next generation of standards in color evaluation. Born from the first spectrometer, the SpectroMaster C-700 series, the New SpectroMaster C-800 continues to measures every light source (LED, HMI, Fluorescent and the natural light spectrum) PLUS flash. In addition, it incorporates expanded Color Rendering Properties to address the evolutionary progress of the industry. Software enhancements now include Spectral Similarity Index (SSI) Television Lighting Consistency Index (TLCI), Television Linaire Matching Factor (TLMF) and Technical Memorandum (TM-30-15).

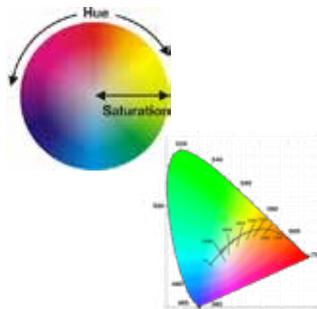
With its CMOS linear sensor image, the SpectroMaster C-800 makes it possible to capture spikes in light source output, especially fluorescent and LED lighting, providing unmatched color measurement accuracy.



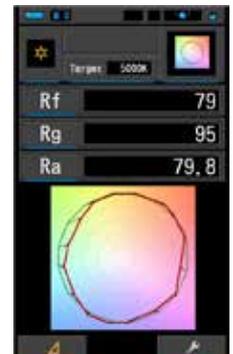
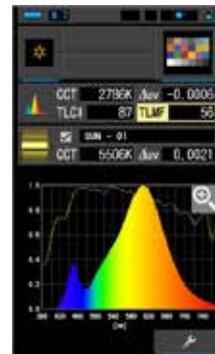
.....Ultimate Tool for Color Control.....



Utilizing a CMOS linear image sensor, the C-800 SpectroMaster measures any light source with repeatable and precise accuracy



Extended color control parameters such as hue/saturation and x, y (CIE 1931) offer further interpretation and understanding of new data fields for quick and easy use in various lighting applications and calculations.



Expanded color rendering properties such as SSI (Spectral Similarity Index), TLCI (Television Lighting Consistency Index), TLMF (Television Linaire Matching Factor) and TM-30 (Technical Memorandum) on top of CRI (Color Rendering Index).

Precise measurement of LED, HMI Fluorescent, Tungsten, natural light and flash light spectrum



The C-800 incorporates a CMOS linear image sensor, that measures and evaluates the true color temperature of a light source from 380 to 780 nanometers (nm). What makes the C-800 truly unique and exceptional is its ability to measure not only conventional light sources but emerging light source technology. Its exclusive ability to capture spikes in light source output, especially fluorescent and LED sources, provides unmatched color measurement accuracy. The C-800 conforms to the requirements for Class A of JIS C 1609-1:2006 (illuminance meter part 1).



Extended Color Parameters

With newly added x, y (CIE1931Chromaticity Coordinate) and Hue/Saturation parameters, now the SpectroMaster C-800 can assist in controlling the latest LEDs light sources that offer advance color control. LED light source panels can now easily be matched to other light sources with the guide of the C-800.

Various Displays

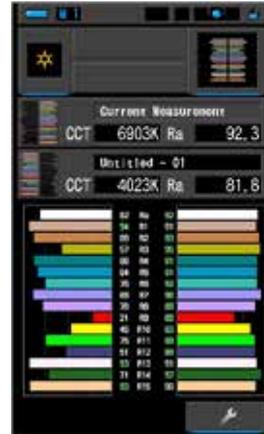
Intuitive color touch screens offer easy navigation, quick selection and easy to read measurements and Spectral data.



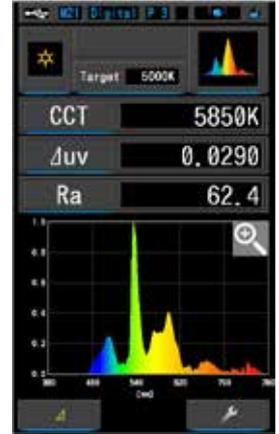
The TEXT screen displays user selected measurement values. Real time readings appear and are updated after every reading, next to their light measurement values.



The Main screen offers quick selection of many C-800 functions at a touch of a finger.



The CRI Comparison screen displays a percentage of the light source ability to reproduce a color accurately using the values (Ra, R1 to R15) with the comparison of two light sources next to each other.



The Spectrum screen displays the spectral energy distribution of a source in real time. It can be displayed as a graph and data or full screen.

Specification

Illuminance Meter Class	Conforms to requirements for Class A of JIS C 1609-1: 2006 "Illuminance meters Part 1: General measuring instruments"*1
Sensor	CMOS linear image sensor
Spectral Wavelength Range	380nm to 780nm
Measuring Range	Ambient light: 1 to 200,000lx (=0.09 to 18,600fc) Flash Light: 20 to 20,500lx·s (=1.86fc·s to 1,900fc·s)
Accuracy *4, 5 (Standard Illuminant A)	Illuminance: ±5%±1 digit of displayed value CCT: ±4MK-1(Standard Illuminant A, 800lx)
Repeatability (xy=Standard Illuminant A)	Illuminance: 1%+1 digit (30 to 200,000lx), 5%+1 digit (1 to 30lx) of displayed value CCT: 2MK-1 (500 to 100,000 lx) CCT: 4MK-1 (100 to 499 lx) CCT: 8MK-1 (30 to 99 lx) CCT: 17MK-1 (5 to 29.9 lx)
Visible-region Relative Spectral Response Characteristics (f)	within 9%
Cosine Response (f2)	Within 6%
Temperature Drift (fT)	Ev: ±5% of displayed value CCT: ±12MK-1 (Standard Illuminant A, 1,000lx)
Humidity Drift (fH)	Ev: ±5% of displayed value CCT: ±12MK-1 (Standard Illuminant A, 1,000lx)
Power Source	AA (1.5V) x 2 pcs, USB bus power
Measurement Time	Ambient Max.: 15 sec. Ambient Min.: 0.5 sec. Flash: 1 to 1/500s (plus 1/75, 1/80, 1/90, 1/100, 1/200, 1/400)
Measuring Modes	Text mode, Spectral graph mode, Spectral comparison mode, CRI mode, CRI Comparison mode, TM-30 mode, SSI mode, TLCI/TLMF mode, Filter mode, Multi lights mode, White balance correction mode.
Measuring Capability	Correlated color temperature (CCT), Deviation (Δuv), LB/CC index, LB/CC filter number (camera/lighting), Illuminance (lx or fc in ambient, light, lx·s or fc·s in flash light), SSI, SSId, TLCI, x, y, Hue, Saturation, CRI (Ra /R1 to R15), Rf, Rg
Other Functions	Data memory: 99 data, Preset function, Auto power off, Auto dimmer
Display languages	English, Japanese, Chinese (Simplified)
Interface	USB 2.0
Operating Temperature	-10 to 40 deg. C
Storage Temperature	-10 to 60 deg. C
Dimensions	73w x 183h x 27d (body), 40d (light receiving part) mm (2.9w x 7.2h x 1.1d, 1.6d inches)
Weight	230g without batteries

* Features and Specifications subject to change without notice.

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