

## THE WORLD'S FIRST COLOR TOUCH SPECTROMETER THAT MEASURES EVERY LIGHT PLUS WIRELESS FLASH

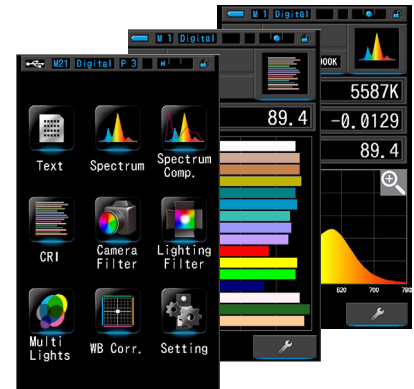
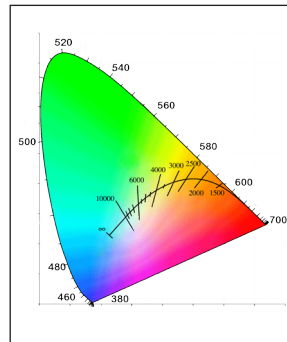
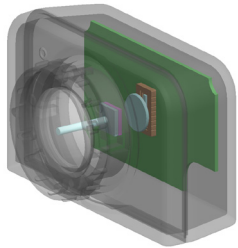
The gap between still and motion image capture has narrowed considerably, and so has lighting and the ability to control it. Now both still and motion shooters are faced with the choices and challenges of conventional and emerging light sources. With the many sophisticated and versatile camera's available today, a new generation of image capture talent has entered the field. New camera and lighting technology has led 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. Using color filters and yesterdays color measuring instruments, imaging shooters around the world managed to control color in their images.

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

The NEW Sekonic SpectroMaster C-700/C-700R series is the first spectrometer that measures every light source (LED, HMI, Fluorescent and the natural light spectrum) PLUS wireless flash (C-700R only). In addition, with its CMOS linear sensor, the SpectroMaster C-700/C-700R makes it possible to measure in 1 (nm) increments, capturing 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-700 series spectrometers measures any light source with repeatable and precise accuracy

The C-700 series is the only spectrometer to offer wireless triggering and measuring of electronic flash units. Selective zone control provides specific triggering and measuring of a flash group or unit.

Wide measuring range  
\*Correlated color temperature (1,600 to 40,000K)  
\*Illuminance (1 to 200,000lx)

Intuitive color touch screens offer easy navigation through Spectral distribution, lighting comparisons, CRI color data and more

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



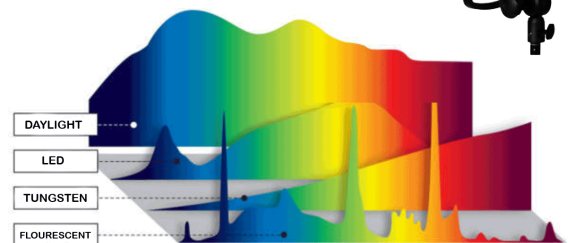
The C-700 series incorporates a CMOS linear sensor, that measures and evaluates the true color temperature of a light source from 380 to 780 nanometers (nm) in 1 nm output wavelength increments. What makes the C-700 series truly unique and exceptional is its ability to not only measure conventional light sources but also emerging light source technology. Its exclusive ability to measure in 1 (nm) increments captures spikes in light source output, especially fluorescent and LED sources, providing unmatched color measurement accuracy. The C-700 series conforms to the requirements for Class A of JIS C 1609-1:2006 (illuminance meter part 1).



### Flash measurement



The C-700 series measures electronic flash and displays color data for accurate white balance, camera and light source filtration and spectral color precision. Color temperature reads are displayed in Kelvin and illuminance readings in lux or lux sec. Electronic flash units are triggered and measured by PC cord, cordless mode or with the C-700R built-in PocketWizard wireless triggering system.



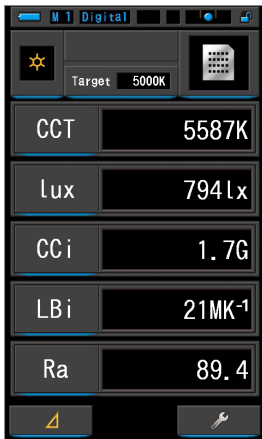
Relative Spectral Power Distribution Graphs

### Wide Measuring Range of Color Temperature and Illuminance

A wide correlated color temperature range (1,600 to 40,000K) and illuminance (1 to 200,000lx) offer the flexibility and accuracy to measure any light source in any demanding studio or on-location production.

## Various Displays

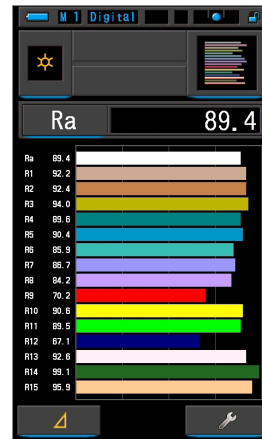
Intuitive color touch screens offer easy navigation, quick selection and easy to read measurements and Spectral data.



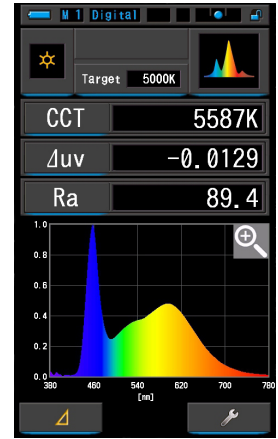
The TEXT screen displays user selected measurement values. Real time measurements appear and are updated after every reading, next to their light measurement values.



The Main screen offers quick selection of many of the C700 series functions at a touch of a finger



The CRI screen displays the standard color reference values (including R1 thru 15) as a percentage of the light sources ability to reproduce a color accurately, as compared to the Ra standard.



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.

<b>Illuminance Meter Class</b>	Conforms to requirements for Class A of JIS C 1609-1: 2006 "Illuminance meters Part 1: General measuring instruments"*1
<b>Sensor</b>	CMOS linear image sensor
<b>Spectral Wavelength Range</b>	380nm to 780nm
<b>Output Wavelength Pitch</b>	1nm
<b>Measuring Range</b>	* Ambient light (1 to 200,000lx=0.09 to 18,600fc) * Flash Light (20 to 20,500lx*s)
<b>Accuracy *4, 5 (Standard Illuminant A)</b>	Illuminance: $\pm 5\% \pm 1$ (1 to 3,000 lx), $\pm 7.5\text{MK} \pm 1$ digit (3,000 to 200,000 lx) of displayed value CCT: $\pm 4\text{MK} - 1$ (Standard Illuminant A, 800 lx)
<b>Repeatability (xy=Standard Illuminant A)</b>	Illuminance: $1\% + 1$ digit (30 to 200,000 lx), $5\% + 1$ digit (1 to 30 lx) of displayed value CCT: $2\text{MK} - 1$ (500 to 100,000 lx) CCT: $4\text{MK} - 1$ (100 to 500 lx) CCT: $8\text{MK} - 1$ (30 to 100 lx) CCT: $17\text{MK} - 1$ (5 to 30 lx)
<b>Visible-region Relative Spectral Response Characteristics (f)</b>	within 9%
<b>Cosine Response (f2)</b>	Within 6%
<b>Temperatutre Drift (fT)</b>	Illuminance: $\pm 5\%$ of displayed vlaue CCT: $\pm 12\text{MK} - 1$ (Standard Illuminant A, 1,000lx)
<b>Humidity Drift (fH)</b>	Illuminance: $\pm 3\%$ of displayed value CCT: $\pm 12\text{MK} - 1$ (Standard Illuminant A, 1,000lx)
<b>Power Source</b>	AA (1.5V) x 2 pcs, USB bus power
<b>Measurement Time</b>	Ambient Max.: 15 sec. Ambient Min.: 0.5 sec. Flash: 1 to 1/500s (in 1, 1/2 or 1/3 steps) also 1/75, 1/80, 1/90, 1/100, 1/200, 1/400
<b>Measuring Modes</b>	Text mode, Spectral graph mode, CRI mode, Lighting filter mode, Camera filter mode, Spectral comparison mode, Multi Lighting Mode, White Balance Mode
<b>Other Functions</b>	Digital/Film mode, Data memory: 99 data, Preset Function, Auto power off, Auto Dimmer
<b>Display languages</b>	English, Japanese, Chinese (Simplified)
<b>Interface</b>	USB 2.0
<b>Operating Temperature</b>	-10 to 40 deg. C
<b>Storage Temperature</b>	-10 to 60 deg. C
<b>Dimensions</b>	73w x 183h x 27d (body), 40d (light receiving part) mm (2.9w x 7.2h x 1.1d, 1.6d inches)
<b>Weight</b>	230g (C-700), 238g (C-700R) without batteries

\* Features and Specifications subject to change without notice.

## SEKONIC CORPORATION

7-24-14, Oizumi-Gakuen-Cho,  
Nerima-Ku, Tokyo 178-8686, Japan  
TEL: +81-3-3978-2335 FAX: +81-3-3978-5229  
<http://www.sekonic.com>