

SEKONIC ENTERS THE INDUSTRIAL LIGHTING MEASUREMENT FIELD WITH NEW SPECTROMASTER C-7000



Tokyo, Japan – June 24th, 2015 – **Sekonic Corporation, Light Meter Sales Department, announced** today the official release of the **SPECTROMASTER C-7000** spectrometer designed for industrial lighting measurement and control. The SPECTROMASTER C-7000 leads the way for SEKONIC to enter the deep and diverse industrial lighting industry. Offering unique and advanced color measurement and analyzing features, the SPECTROMASTER C-7000 is a competitively priced and sophisticated solution for countless lighting and color conscious industries.

With the overwhelming popularity of new light sources such as advanced LED's, and Organic Electroluminescence, the need to understand, manage and control these sophisticated illumination systems has never been more important. In response to these needs, SEKONIC has created the C-7000 to measure these light sources as well as traditional lighting (such as fluorescent and electronic strobe). The new SPECTROMASTER C-7000 is a stand-alone spectrometer that measures every light source (LED, HMI, Fluorescent, Flash and Natural light) with its CMOS linear image sensor. In addition, the sophisticated accumulation type sensor, (first utilized in C-700 SpectroMaster series), offers the unique ability to also measure electronic flash.

Similar to its sister (Spectrometer C-700 series), the C-7000 offers an intuitive (4.3" color dot matrix LCD) color touch screen with easy navigation through the various spectral distribution screens, lighting comparisons, custom settings and much more. With its companion C-7000 Utility (software included in the package) and PC connectivity, firmware upgrades, data analysis, output and storage can easily be managed via external computer.

At its basic function, the C-7000 offers not only Color Temperature, Color Rendering Index (CRI), and Illuminance but also Chromaticity Coordinate and Diagrams (such as CIE1931/CIE1964 & CIE1976), Peak Wavelength and Excitation Purity. In addition, C-7000 Utility enables to display the output of measurement data at every 1nm (nanometer) increment in CSV format, and the graphs of spectral distribution, CRI, CIE 1931(1964) and CIE1976 by connecting between C-7000 and PC (windows only). Chromaticity Diagrams can be utilized widely in light manufacturing quality control and monitoring as well as office lighting conditions, roadway lighting, educational and public facility government lighting standards and regulations, precision medical lighting criteria, manufacturing assembly line lighting, indoor agricultural lighting and much more.

During a recent interview, *Mr. Lorenzo Gasperini (International Sale& Marketing Manager) stated that "SEKONIC is a well-respected and popular brand in the photo/video industry and now it can offer its expertise and experience in light measuring instruments to a wider, much deeper market. These are exciting times for SEKONIC as we expand our market and learn more on how we can integrate our technology further"*

Key Features:

- Measures LED, HMI, Fluorescent, Tungsten, Natural Light and Flash in 1 nanometer (nm) output wavelength increments from 380 to 780 nm
- The world's first*¹ stand-alone spectrometer that measure the flash light with sync. cord connection or cordless mode. The measurement range for flash light is from 20lx· s to 20,500lx· s
- User-friendly design: 270 degrees swivel head, dark calibration without cap, large 4.3" color touch panel LCD and Customize function
- Wide measurement range of Color Temperature (1,563 to 100,000K) and illumination (1 to 200,000lx in ambient light, 20 to 20,500lx· s in flash light)
- Various displays (Text, Spectrum Graph, Spectrum Comparison Mode, CRI Mode, CIE1931(CIE1964) Mode, CIE1931(CIE1964) Comparison Mode, CIE1976 Mode, CIE1976 Comparison Mode)
- Measurements of Kelvin(K), Illuminance(lux), CRI(Ra, R1 thru. R15), Deviation(Δuv), Tristimulus values(XYZ), Chromaticity Coordinate(xyz / u'v'), Dominant Wavelength (λd), Peak Wavelength(λp), Excitation Purity(Pe), PPF(Photosynthetic Photon Flux Density)
- Up to 999 data measurements can be stored in memory. Memory function also enables naming or renaming the title of memory and clearing the stored value. It is useful to compare various light sources or to check deterioration of single sources over time.
- C-7000 Utility (in CD-ROM included in the package) offers easy settings and updating firmware on Windows basis in the meter. Via C-7000 Utility software, the output of the spectrum data at every 1nm in CSV format and the output of the spectrum distribution graph, CIE1931(1964), CIE1976 diagram, CRI graph bar in JPEG/BMP/PNG format are also available.

**1 – As of August 2014, by research of Sekonic Corporation
Features and specifications are subject to change without notice*

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To learn more about the SPECTROMASTER C-7000 meter or other industrial measurement instruments, visit us at www.sekonic.com

C-7000 Specification

Illuminance Meter Class	Conforms to requirements for Class A of JIS C 1609-1: 2006 "Illuminance meters Part 1: General measuring instruments"
Sensor	CMOS linier sensor
Spectral Wavelength Range	380nm to 780nm
Output Wavelength Pitch	1nm (spectral irradiance in $W \cdot m^{-2} \cdot nm^{-1}$)
Measuring Range	Ambient light: 1 to 200,000lx, 1,563 to 100,000K (more than 5lx)
	Flash light: 20 to 20,500lx, 1,563 to 100,000K
Accuracy (Standard Illuminant A)	Illuminance: $\pm 5\%$ + 1digit
	x,y: 0.003 (800lx)
Repeatability (Standard Illuminant A)	Illuminance: $\pm 1\%$ +1digit
	x,y: 0.0012 (500 to 200,000lx)
	x,y: 0.0025 (100 to 500lx)
	x,y: 0.005 (30 to 100lx)
Visible-region Relative Spectral Response Characteristics (f)	9% or less
Cosine Response (f2)	6% or less
Temperature Drift (fT)	Illuminance: $\pm 5\%$ of displayed value
	x,y: ± 0.006
Humidity Drift (fH)	Illuminance: $\pm 3\%$ of displayed value
	x,y: ± 0.006
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 (in 1steps)
Measuring Modes	Text mode, Spectrum mode, Spectrum Comparison mode, CRI mode, CIE1931 (CIE1964) mode, CIE1931 (CIE1964) Comparison mode, CIE1976 mode, CIE1976 Comparison mode
Other Functions	Data memory: 999 data, Preset Function, Auto power of, Auto Dimmer
Display languages	English or Chinese (Simplified) - <i>Set in factory and cannot be changed by user.</i>
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

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