SEKONIC

merging technology for the next generation of image makers

INTRODUCING THE

SPECTROMASTER C-800

The Ultimate Tool for Color Interpretation and Control.







WHAT IS THE SPECTROMASTER C-800?

SPECTROMETER (COLOR METER)

- Measures Color Temperature (K)
- Expanded Color Interpretation
- Provides Color Compensation DATA
- For Film or Digital, Still or Motion
- For all Light Sources

ILLUMINANCE METER

- Measures Brightness of Light Sources
- Provides LUX, Foot-Candle, LUX SECOND and FOOT-CANDLE Second Measurements
- Provides AMBIENT or FLASH Measurements





WHO NEEDS THE SPECTROMASTER?





- COLOR BALANCE
 - ALL LIGHT SOURCES (LED, HMI, FLUORESCENT, ETC)
 - CAMERA AND LIGHT SOURCES (WHITE BALANCE)
- COLOR CONTROL
 - CREATIVE LIGHTING
 - ACCURATE COLOR REPRODUCTION
- BRIGHTNESS CONTROL
 - Consistent and Even Lighting



WHY THE C800 SPECTROMASTER?

Key Features:



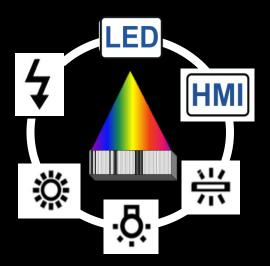
Measures all light sources

(LED, HMI, Fluorescent, Tungsten, Natural and Flash)

Fine Pitch Output Wavelength (in 1 nm)

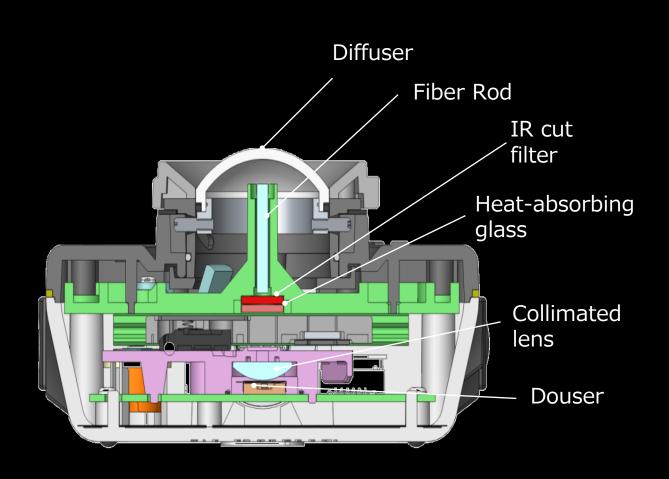
- Wide Color Temp Range (1,600 to 40,000K)
- Wide Illumination Range (1 to 200,000lx, 20 to 20,480lx·s)
- Full Spectral Data (Spectrum Graph, Comparisons)

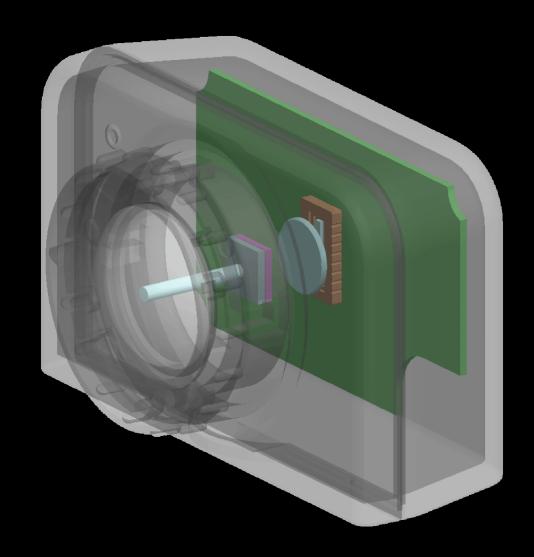




THE HEART OF C-800 SERIES TECHNOLOGY

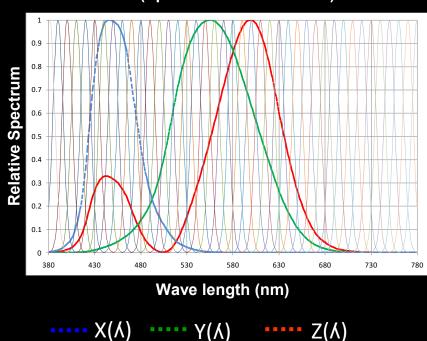
Incorporates CMOS Linear Sensor





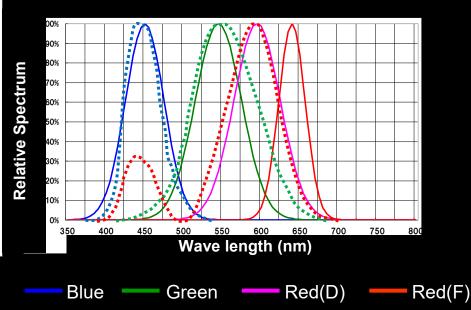
C-800 VS VISUAL COLOR SPECTRUM





- SPECTROMETER Designed for Photo/Video Shooters
- 1 NANOMETER output wavelength pitch
- Accurate measurements of all light sources including Led, HMI and FLUORESCENT

C-500 (Four Sensors' Spectrum Characteristic)



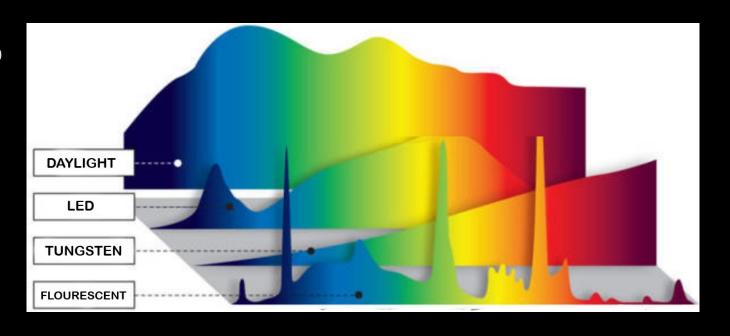
- Conventional Color Meter can't see the full spectrum of LED, OLED, Etc.
- Traditional color reference standards no longer apply to new light source (blackbody radiator)
- CRI (Color Rendering Index) is nolonger the preferred standard of color referencing



ACCURATELY MEASURES COLOR CHARACTERISTICS OF ALL LIGHT SOURCES

Sekonic's CMOS Linear Sensor Precisely measures any light source

- Measure LED, Fluorescent, Tungsten, HMI, Daylight, Flash and All Natural Sources
- Accurately measure LED lighting
- ACCURATELY MEASURE FLUORESCENT LIGHTING.
- VISUALLY DISPLAY AND COMPARE LIGHT FROM DIFFERENT SOURCES.







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SPECTROMASTER C-800 QUICK TOUR



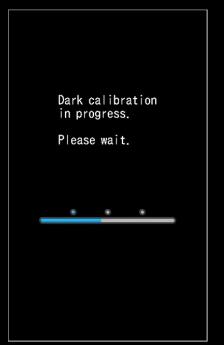




Power Up







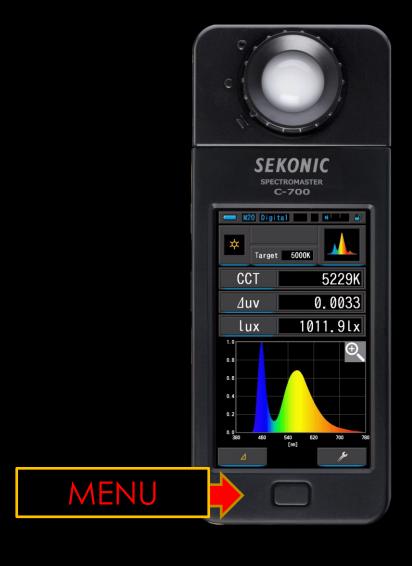
Before measuring, select Ambient or Flash mode







Display Modes

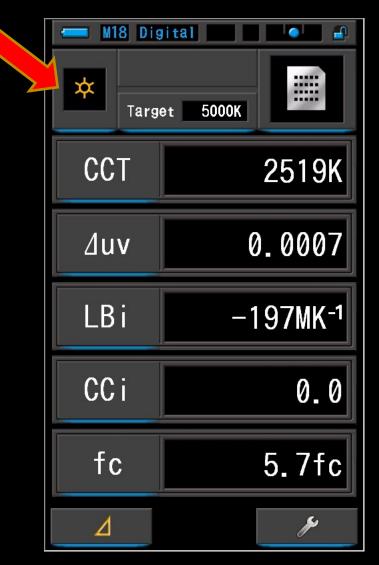


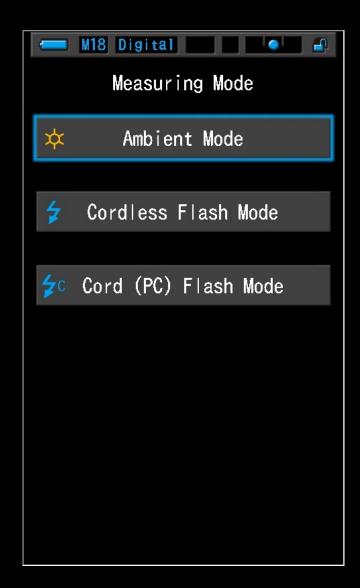




Text Screen

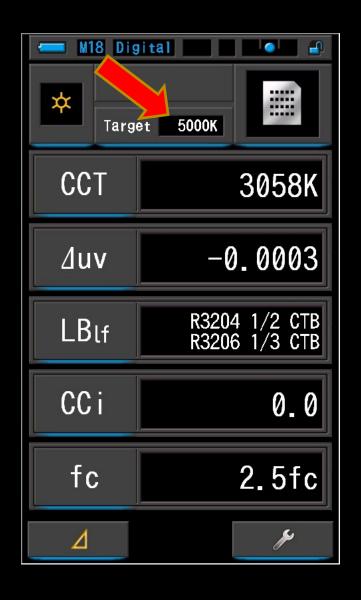
Before measuring, select Ambient or Flash mode

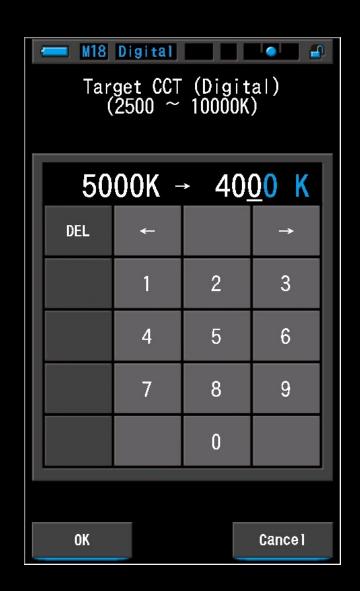






Selecting Kelvin Temperature



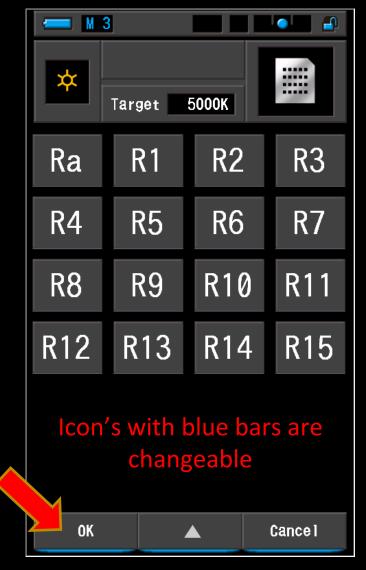




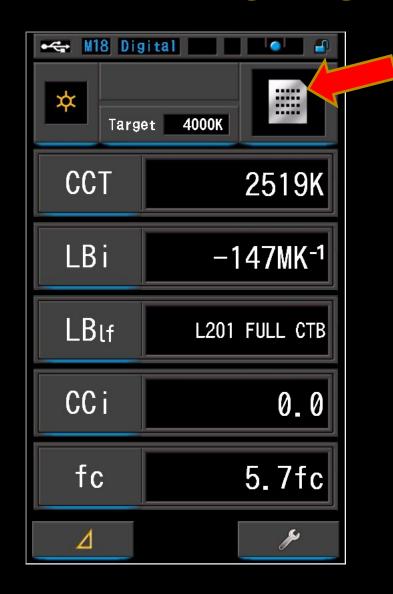
Selecting the Display Item







Changing Display Mode

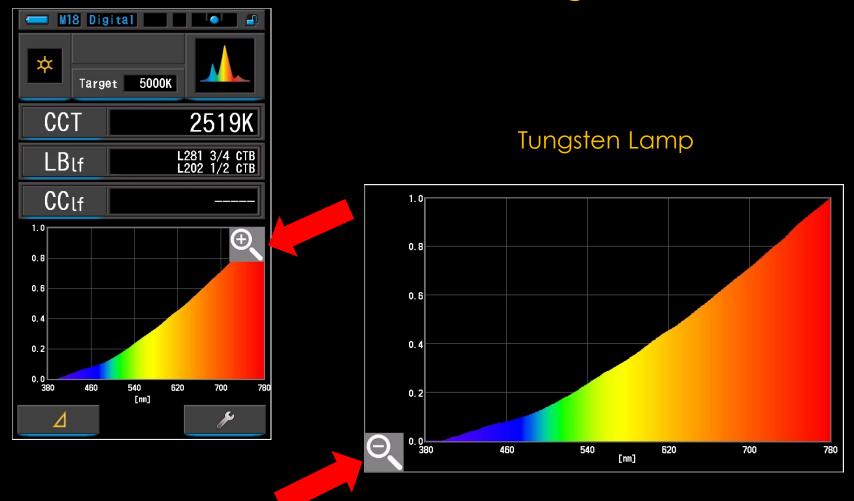






Spectrum Reading

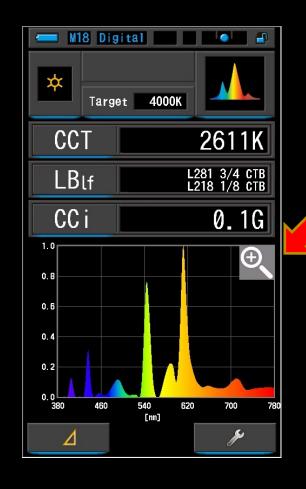
with Enlargement



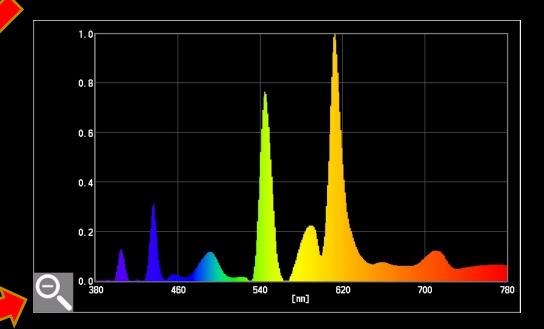


Spectrum Reading

With Enlargement



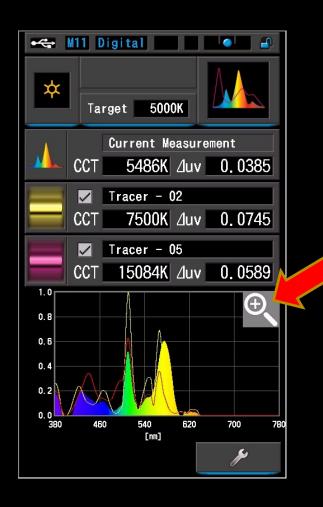
Fluorescent



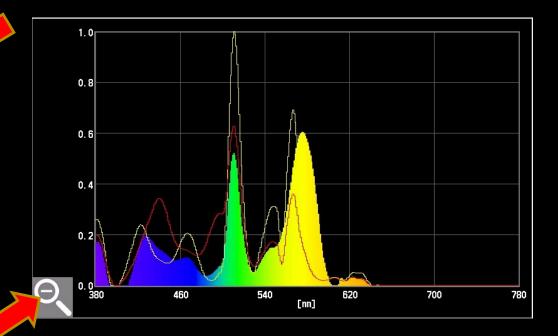


Spectrum Comparison

Three light comparison

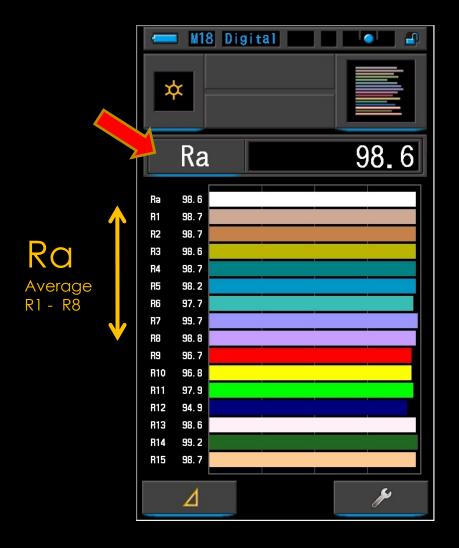


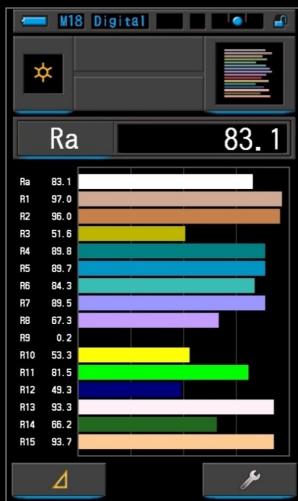
Currently Measured Light Memorized value 1 - Yellow Outline Memorized value 2 - Red Outline



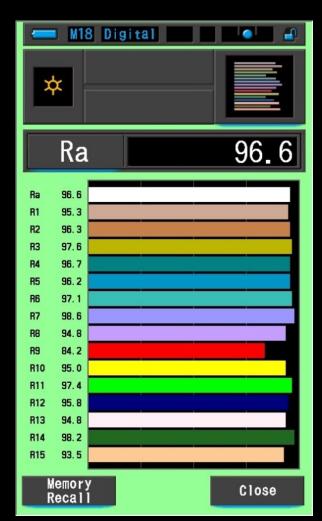


CRI - Color Rendering Index



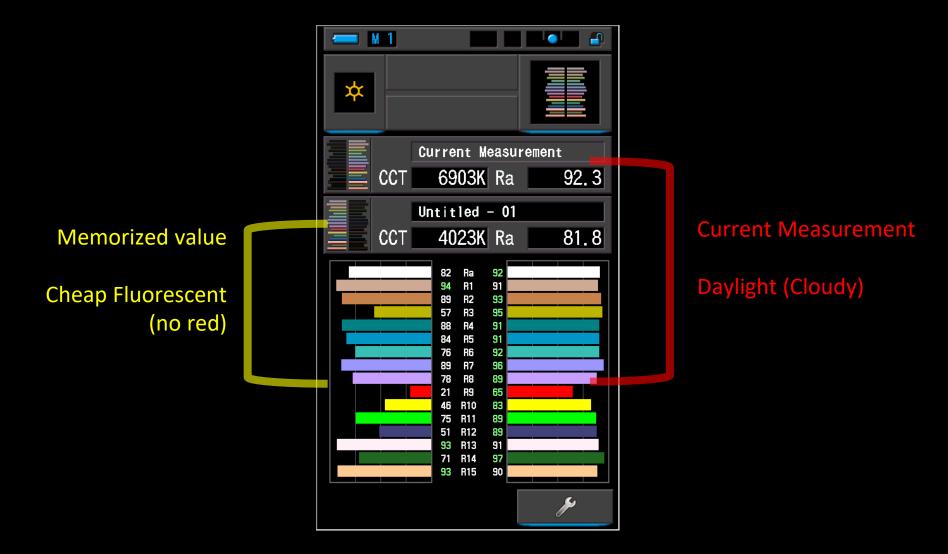


Cheap Fluorescent (no red)



Hollywood Fluorescent

NEW... CRI Comparison

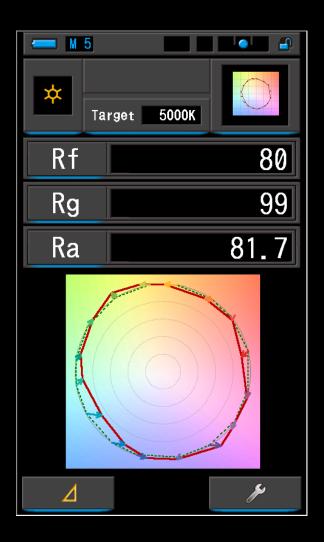




New... TM-30-15 Mode

- Rf Fidelity index = Accurate rendition of color (0 to 100)
- Rg Gamut index = Average level of saturation relative to reference illuminant (60 to 140)
- Ra Same as CRI's Ra
- Color vector graphic illustrates
 average hue and saturation changes
 in each of 16 hue bins. The reference
 source is normalized to a black circle,
 whereas the test source is represented
 by the red line.

IES: Illuminating Engineering Society
TM-30-15: Technical Memorandum 30-15

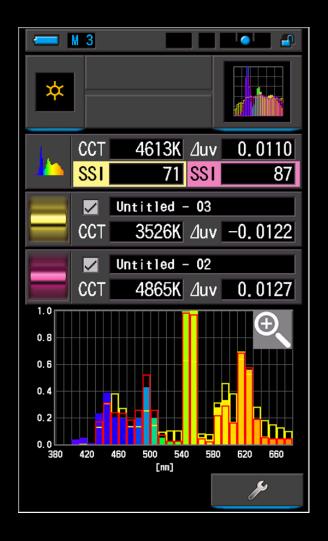




New...SSI Mode

- Defined by Academy of Motion Picture Arts and Sciences, Science and Technology Council
- Index defines how close a test spectrum is to a reference spectrum (CIE illuminant and actual light source)
- Number is similar to CRI above 90 is good, below 60 may have problems

Academy of Motion Picture SSI: Spectral Similarity Index





New...TLCI and TLMF Mode

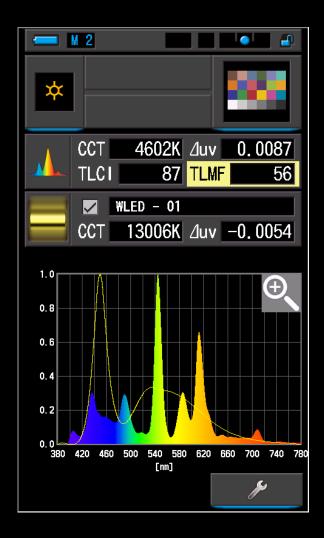
Television Lighting Consistency Index

 TLCI uses the latest color science and a mathematical model of a broadcast camera to calculate the color response that would result when using a video camera. Seeing the colors as they would be shown during a broadcast (on TV).

Television Luminaire Matching Factor

 There is a new companion metric to TLCI called TLMF which provides comparing two different light sources, rather than to a perfect reference, and see if they will play well together.

Alan Roberts UK Television Engineer TLCI: Television Lighting Consistency Index TLMF: Television Luminaire Matching Factor



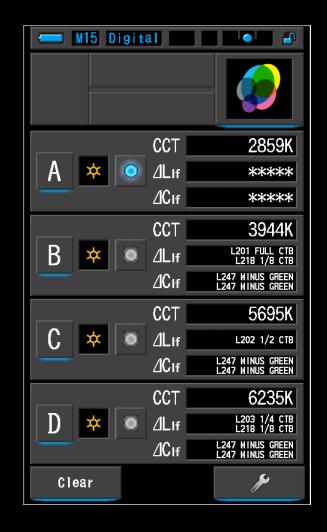


Multi Lights

Four light Comparison





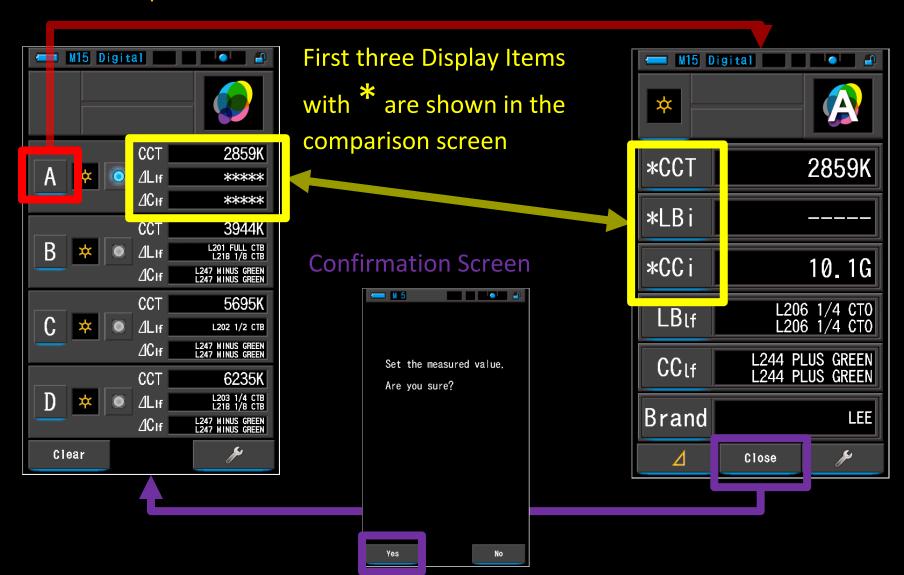




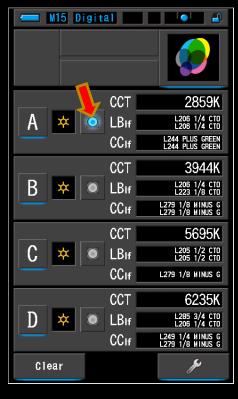
Multi Lights

Comparison Screen

Individual Measuring Screen



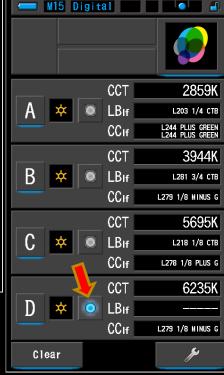




Multi Lights

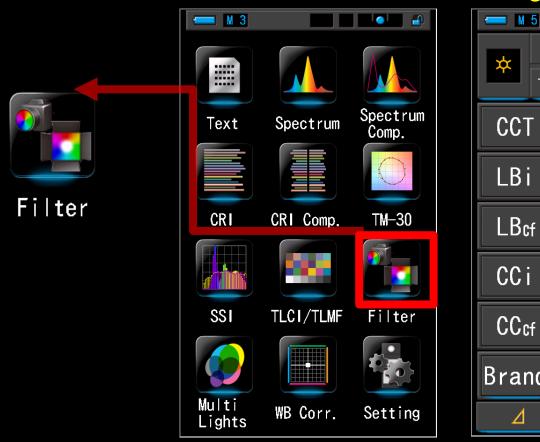


2859K LBif L203 1/4 CTB L244 PLUS GREEN L244 PLUS GREEN CCIf CCT 3944K LBıf L202 1/2 CTB L218 1/8 CTB L249 1/4 MINUS G CCT 5695K LBıf CCIf L278 1/8 PLUS G 6235K LBıf CCIf L279 1/8 MINUS G Clear



The Main light selected automatically adjusts the filtration for the other lights to match Main light

Filter - Lighting/Camera

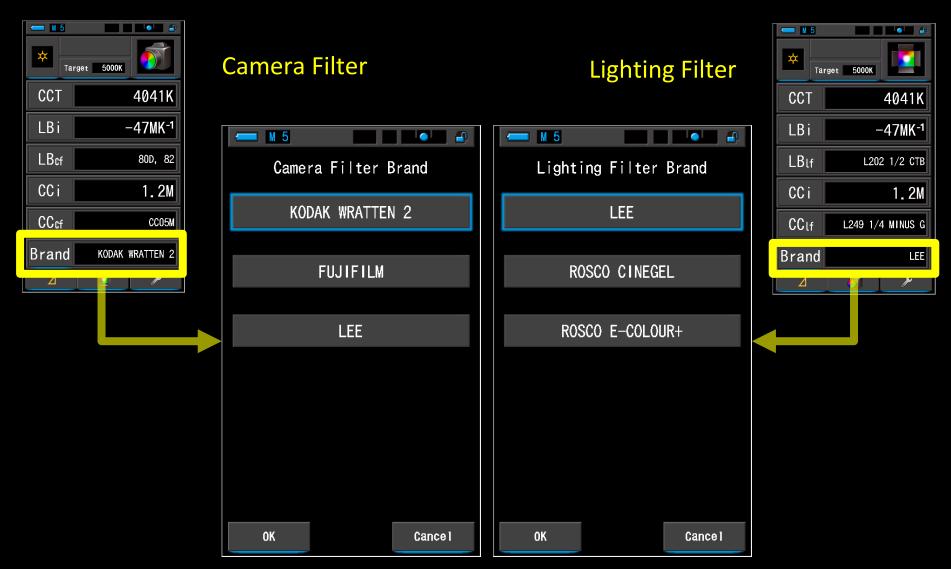




You can switch between Camera filter or Lighting filter with this icon



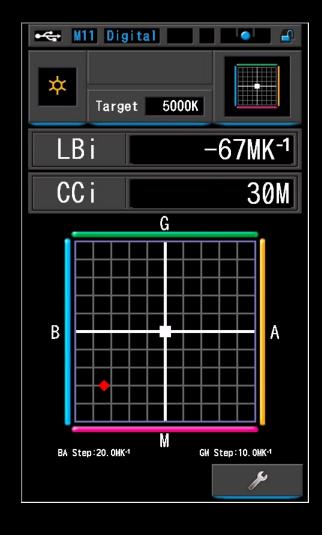
Filter - Lighting/Camera





White Balance Correction

Displays the difference between the current measurement value and the target color temperature in a white balance correction graph.





Settings

- Customize
- Edit a Preset
- Dark Calibration
- Display the Information





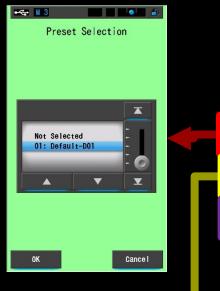




Tool Box



Memory Management







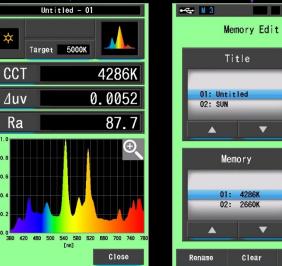




Edit

Close

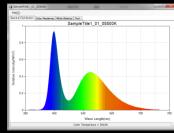


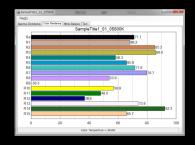


The C-800 Series Software Utility

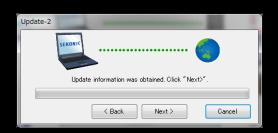
 The C-800 Series can be synced to the computer and memorized values are displayed in text or graph form, printed, stored and accessed for future use.







- Customized functions can be set within the software
- Update Firmware









Comparison Chart

	C-700 (C-700R)	C-800	C-7000
Targeted Users	Photographer, filmmaker	Photographer, filmmaker, some industrial use	Industrial (lighting manufacturer, lighting designer, etc.)
Measuring Range	1,600 to 40,000K 1 to 200,000lx 20 to 20,500lx • s	1,600 to 40,000K 1 to 200,000lx 20 to 20,500lx • s	1,543 to 100,000K 1 to 200,000lx 20 to 20,500lx • s
Measurement Unit	Kelvin, ⊿uv, LB/CC index, LB/CClf, LB/CCcf, lx, fc, Hlx, Hfc, Ra, R1 to R15	Kelvin, ⊿uv, LB/CC index, LB/CClf, LB/CCcf, lx, fc, Hlx, Hfc, Ra, R1 to R15, Rf, Rg, SSIt, SSId, TLCl, xy, Hue/Saturation,	Kelvin, ⊿uv, LB/CC index, LB/CClf, LB/CCcf, lx, fc, Hlx, Hfc, Ra, R1 to R15, XYZ, xyz, u'v', λd, λp, Pe, PPFD
Display Mode	Text, Spectrum, Spectrum comp., CRI, Camera filter, Lighting filter, Multi lights, WB comp.	Text, Spectrum, Spectrum comp., CRI, CRI comp., TM-30-15, SSI, TLCI/TLMF, Filter (Camera or Lighting), Multi lights, WB comp.	Text, Spectrum, Spectrum comp., CRI, CIE1931 (CIE1964), CIE1976,
Other Functions	Up to 99 memory, Digital / Film mode, PocketWizard radio triggering (C-700R)	Up to 99 memory, Memory title can be edited in Utility, Memorized value can be saved back and forth between computer and meter.	Up to 999 memory, 1nm increment spectrum output by Utility, 2°or 10° field of view

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