For nearly 70 years, Sekonic Corporation has designed and manufactured the most innovative and sophisticated light measuring instruments in the photographic and Cine/Video industry. Our commitment to meet and exceed the demands of the professional and their expectations continues with a vigorous passion.

From our humble beginnings, it all started on June 16th, 1951, when Mr. Ryuichi Mitani, a young man at the time, established "Seiko Electronic Co. Ltd" an engineering, manufacturing and Design Company for exposure meters and selenium purification systems. That same year the company released their first exposure meter, the L-1 under the brand name of Sekonic. By 1960 the Sekonic brand meters became so popular that the company changed the name from Seiko Electronic Co. Ltd to Sekonic Corporation, a true testament that Sekonic meters were destined for success.

The company grew over the years and in 1963 it was listed on the Tokyo Stock Exchange. Sekonic's detail to precision engineering and business expertise in the electronics business landed them many notable OEM clients such as Copal and Konica. In 1974 Sekonic received the "Good Design" award from the Ministry of International Trade and Industry in Japan for the L-428 System Meter. Sekonic would later be honored with this prestigious award again in 1994 for the L-308B Flashmate. During the years to follow, Sekonic diversified into other markets such as Industrial Recorders, Plotters, Optical Mark Readers and other various measuring instruments.

In 1984 Sekonic received worldwide recognition when NASA chose the L-518 Digipro X-1 for the Space Shuttle missions. As the first Shuttle launched, so did the future of Sekonic light meters, with popular models such as the L-408 Multi Master in 1995, and L-508 Zoom Master in 1997. As the new millennium started, Sekonic released the world's first radio triggering light meters (L-358 Flash Master and L-608 Super Zoom Master) compatible with PocketWizard that offered wireless triggering and measuring of remote flash equipment in addition to other features.

As the photo industry evolved into digital capture technology, Sekonic demonstrated its' commitment to the needs of the professional photographer. Starting with the L-558 DualMaster and then the L-308S Flashmate, Sekonic began to release digital ready light meters. However, in 2006 Sekonic completely reinvented the meaning of a light meter with the world's first digital "Exposure Profiling" solution, the L-758 Series DigitalMaster. The L-758 Series offered photographers a hardware/software package that ensures perfect digital exposure control. It was the first truly digital-ready light meter with tons of cool features and has earned the nickname, the ultimate "Multi Tool". With the L-758 Series off the drawing board, Sekonic engineers fueled with excitement, set off to break another digital milestone. In 2008 the world's first digital ready color meter with wireless triggering built-in was born, the C-500 series ProDigi Color.

In recent times, Sekonic has seen the merge of still and moving images, and Sekonic was there with products such as the L-308DC DigiCineMate launched in 2010. In 2012, with the astounding penetration of smart phone touch screen technology, Sekonic re-energized the concept of a light meter by creating the L-478 Series LiteMaster Pro. Breaking all the barriers, Sekonic created the world's first color touch screen, wireless power control & triggering ready exposure profiling light meter. Its compact and intuitive design offers today's shooters with everything they need at the touch of a finger. With the rapid development of new light sources entering into the Photo/Video industry, Sekonic was faced with the challenge of measuring pulsed light sources like LED's accurately. Responding to the needs of today's color conscious image makers, the SpectroMaster C-700/C-700R was born in 2014. Providing a large color touch screen interface, the C-700 series offers color measurements of all light sources including wireless triggered Flash. In 2015, an addition industrial version of the C-700 was launch, the C-7000 to address industrial color control accuracy requirements using standards of measure necessary for the market. As new flash photography techniques and function enter the industry, it became necessary for Sekonic engineers to raise the bar with ground breaking feature never before available in a traditional light meter. The SpeedMaster L-858D was introduced in 2016 and has fast become one of the most popular multi-function meters in the world. With its ability to measure flash duration, High Speed Synch and easily navigate through its large color LCD screen, the L-858D has revolutionized what a light meter is today. Most recently, Sekonic has updated and added value to it very popular FlashMate series. Combining Photo/Video/Cine modes all in an affordable and compact design the new 2017 FlashMate L-308X is everyone's go to meter. Most recently, Sekonic raised the bar again meeting the needs of the every changing world of Cine/Video lighting with the new and improved C-800 SpectroMaster. Released in 2018, the C-800 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 Luminance Matching Factor (TLMF) and Technical Memorandum (TM-30-18).

Today Sekonic continues to bring innovative new products to professional photographers and CINE/Videographer's.

Sekonic...because it's all about controlling the light.

SEKONIC

THE WORLD'S FIRST MULTI-FUNCTION LIGHT METER WITH FLASH DURATION & MULTI-BRAND WIRELESS TRIGGERING

The Sekonic SpeedMaster L-858D combines nearly 70 years of Sekonic innovation with cutting-edge, flash-measurement technology to meet the needs of today's photographers as well as motion image makers. Incorporating flash duration measurement, the first time in a multi-function light meter, the L-858D provides the critical flash data needed to calculate proper ambient-flash exposure. As its name implies, the SpeedMaster L-858D also measures the brief flash bursts of HSS (High Speed Sync) for precision flash exposure control.

The L-858D includes the essence of the popular L-478D series features and functions that enables photographers to break through the boundaries of ISO sensitivity, flash and ambient shutter speeds, as well as frame rates (f/s) and shutter angles for cinematographers. Increased sensitivity for both incident and reflected-spot sensors in ambient light allows extreme low light level measurements. In addition, the L-858D offers an optional wireless triggering modules now available for Broncolor and Godox in addition to Elinchrom, Phottix and PocketWizard brand radio triggering devices. With its 2.7" color touch screen and truly innovative advanced and sophisticated features, the L-858D breaks away towards the next generation of light measurement control.

## Ultimate Multi-Function Light Meter

PHOTO MODE:

How do you know what the real flash exposure is when you're trying to overpower the sun with your flash set to HSS (High Speed Sync), what's the best flash duration speed to stop that bullet in mid-air, how do you know how much highlight or shadow details you are really getting in your digital exposures? Stop wondering. With the world's first multi-function flash duration light meter you'll have all your answers before you ever release the shutter.

✓ **1 Degree Spot Viewfinder with illuminated display**

✓ **Flash Duration Analysis**

✓ **HSS Flash Measurement**

✓ **Wireless Triggering (Optional)**

✓ **All Weather Design**

HD_CINE/CINE MODE:

For many shooters today, one camera has to do it all. That's why the L-858D offers extensive Cine mode features all in one super tool light meter. From its full information Spot Viewfinder to its Illuminance / Luminance measuring modes, it's no surprise that the L-858D is the new standard and still & cine shooters' go to meter. With its extensive frame rates (1 to 1000f/s) and shutter angle settings (1 to 358 degree shutter angle), it provides the cinematographer and videographer the ultimate control in creative and special effects lighting.

✓ **Extended Range of Frame Rates (1 to 1000f/s)**

✓ **Filter Factor Compensation**

✓ **Extended Shutter Angle(1 to 358 degree)**

✓ **Illuminance/Luminance (FC, LUX, FL, cd/m2,)**
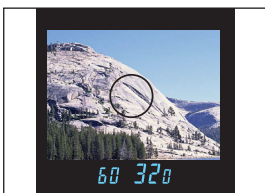
The rectangular 1° Optical Spot viewfinder displays f-stop, shutter speed, percentage of flash and much more with an EL digital display.

Programmable to match the exposure characteristics of your DSLR or Cine camera. Match the response of film or digital exposure characteristics, dynamic range, reflected, incident, flash or ambient light throughout the ISO range of your camera, using data transfer software.

Optional wireless triggering modules now available for Broncolor and Godox in addition to Elinchrom, Phottix and PocketWizard brand radio triggering devices.

The L-858D offers frame rate, shutter angle, illuminance (lx, cd/m2) and luminance (fc, fl).

All Weather Design. All buttons, switches and compartments are sealed and the housing has been design to endure rugged outdoor conditions.

Flash Duration Measurements

Measuring the flash duration or "burn time" of a flash exposure has always been a critical part of any fast moving subject such as sports, fashion, wildlife and special effect flash photographs. Unfortunately, flash duration meters have always expensive and complicated additional pieces of gear to carry, until now. The SpeedMaster puts all that in the past with selectable flash duration measures from t=0.1 to 0.9. Setting flashes to yield the fastest or in the case of HyperSync® exposure the slowest duration can be made in a quick, precise and easy process.
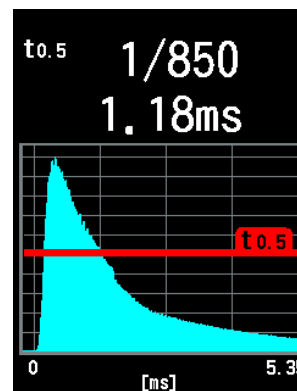
Flash duration: 1/250s

Flash duration: 1/17,800s

Flash Duration Analysis Measuring Screen
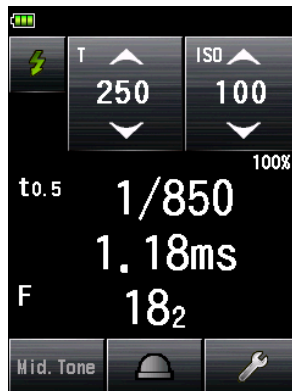
Flash Duration Analysis Graph Screen

HSS Measurements

High Speed Synch exposures have always been limited in their applications, especially when it comes to the accurate flash exposures. It was impossible for the traditional meter to measure the rapid burst of flash output for HSS.
The L-858D HSS measurement capability is a game changer for HSS shooters, especially when the shot involved multiple HSS flash units.
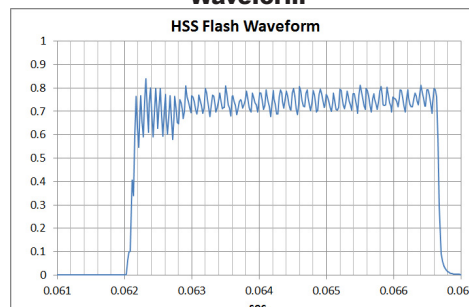
Normal Synch Flash

HSS Flash

Typical HSS Flash Waveform

Five Wireless Triggering/Power Control System Available

The L-858D has an optional wireless plug-in radio module that offers a wireless solution for triggering and/or flash power control. The L-858D offers many of the features available to wireless shooters including selective zone/group triggering, multi-channel selection and even camera triggering. There are five different wireless modules compatible with each radio brand system:

Individual Transmitters Available

	RT-20PW	RT-3PW	RT-EL/PX		RT-BR	RT-GX
Radio System	PocketWizard	PocketWizard	elinchrom (EL-Skyport)	Phottix	broncolor RFS2.1	Godox
Radio Frequency & Channels/ Studios	FCC&IC: 340-354MHz 20 Channels (ControlTL), 32 Channels (Standard)	CE:433.42-434.42MHz 3 Channels (ControlTL), 32 Channels (Standard)	2.4GHz 20 Channels	2.4GHz (Strato II protocol) 4 Channels	2.4GHz 99 Studios	2.4GHz 32 Studios
Zones/Groups	3 Zones (A to C) (ControlTL) 4 Zones (A to D) (Standard)	3 Zones (A to C) (ControlTL) 4 Zones (A to D) (Standard)	4 Groups (G1 to G4) plus ALL	4 Groups (A to D) for Phottix Strato II protocol	40 Lamps (1 to 40) plus ALL	16 Groups (A to F, 0 to 9) plus ALL with Wireless ID (1 to 99 or OFF)
Flash Power Control	Yes	Yes	Yes	No (triggering only)	Yes	Yes
Modeling Lamp Control	Yes (ON/OFF only)	Yes (ON/OFF only)	Yes (Power control)	No	Yes (ON/OFF only)	Yes (Power control)

Wireless flash power control is in a palm of your hand.
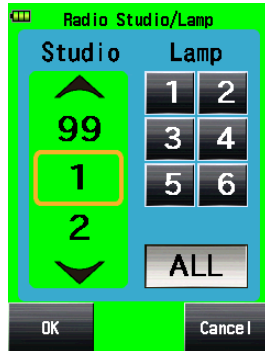**Now you can simultaneously trigger and measure your electronic flash units wirelessly.**

Broncolor

RT-BR transmitter is compatible with Broncolor RFS2.2/2.1/2 systems.
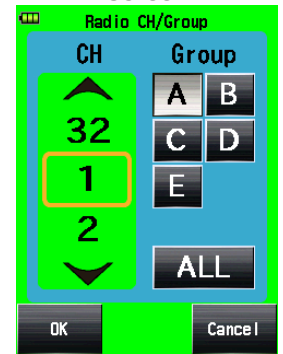
Power Control Screen

Radio Studio/Lamp Setting Screen

Godox

RT-GX transmitter is compatible with all Godox radio system.

Flash Control Screen

Radio CH/Group Setting Screen

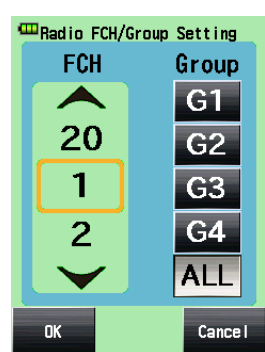## Elinchrom

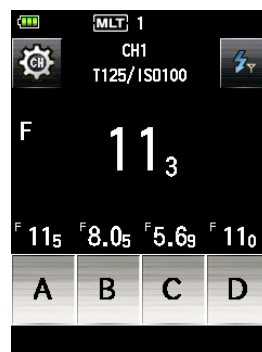RT-EL/PX transmitter is compatible with EL-skyport radio system.
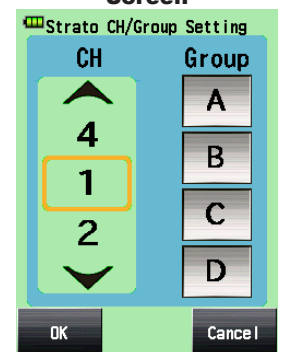
Flash Power Control Screen

Radio CH/Group Setting Screen

Phottix

RT-EL/PX transmitter is compatible with Phottix Strato II protocol.
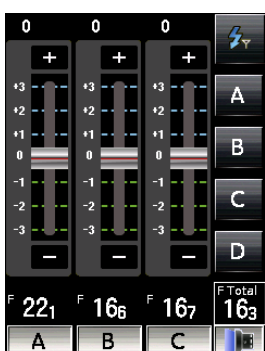
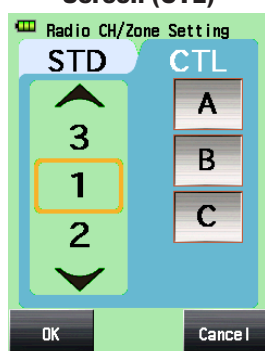**Flash Control Screen**

Radio CH/Group Setting Screen

PocketWizard

RT-20PW (FCC/IC) and RT-3PW (CE) transmitters are compatible with ControlTL and Standard system of PocketWizard.

Power Control Screen

Radio CH/Zone Setting Screen (CTL)

elinchrom

broncolor

SEKONIC

Godox

Phottix

SPEEDMASTER
L-858D

PocketWizard

5

SPEEDMASTER
L-858D

The Only light meters that show you the Dynamic Range of your D-SLR. 1 Degree Spot with Digital Display:

The rectangular 1° spot viewfinder displays f-stops, shutter speed, percentage of flash and much more with an EL (Electronic-Luminescent) digital display. It incorporates a parallax-free spot finder preventing erroneous close-up photography light measurements. It can instantly be switched from incident to spot measurement mode. With its super sensitive sensor, the L-858D can measure the reflected flash output down to an amazing f/1.0 and ambient measurements as low as EV-1. In addition, it also included an adjustable diopter eyepiece.
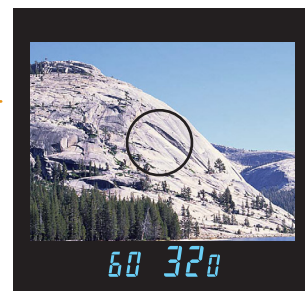
Exposure Profiling:

Because every digital camera, lens, and software is unique in its capability to capture and process light, each can produce differences in the tonal range (dynamic range) and exposure of an image. Knowing the limits of your camera's capabilities enables making better exposures with less post-processing, and ensures you'll get what you see. Sekonic's pioneering Data Transfer Software allows quick dynamic range mapping and camera/meter calibration for the most precise control of light. Create and store up to ten camera exposure profiles with Sekonic, X-Rite or datacolor brand calibration targets.

Flash Analyzing Functions:

In normal flash modes, the L-858D simultaneously reads both flash and ambient light automatically in order to analyze and display the exposure data in 3 convenient ways:

- ✓ **Combined readings (aperture) of flash and ambient light**
- ✓ **Percentage of flash in the total exposure**
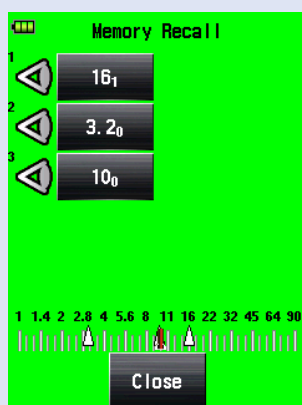- ✓ **Simultaneous display of flash, ambient and combined readings on the analog scale.**

Flash 80%   **Flash 60%**   **Flash 20%**

Memorize Up To Nine Readings and Mid-Tone Adjustment

The L-858D can memorize measured values in both incident and reflected modes independently or combined. When the memorized values are combined it is possible to take a mid-tone measurement using the Lumisphere in incident mode, then take a spot highlight, and shadow measurement by simply switching to reflected measuring mode. Highlight and shadow tones can be measured and quickly viewed to determine if there are within the Dynamic range or Clipping points of the digital camera or type of film being used. In addition, the Mid.Tone value can be shifted to adjust the highlight or shadow to be within the range required.
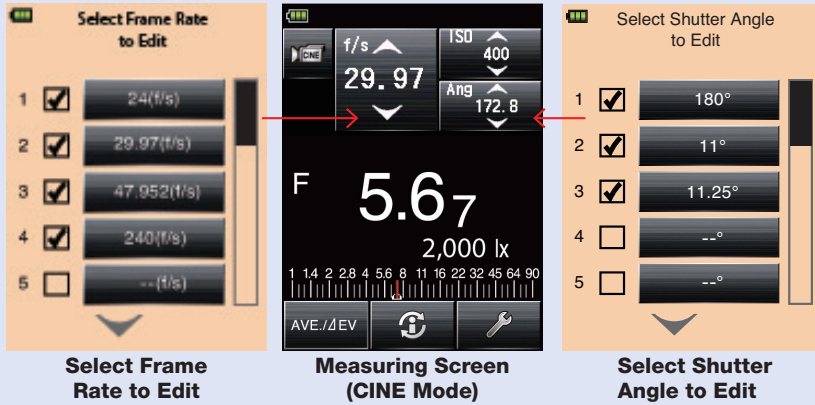
Enhanced HD Cine / Cine Features

Today's digital cameras offer both still and motion capture. Offering shooters seamless cross platform media capabilities, these cameras provide a variety of uses in a single production. To complement sophisticated cameras, the L-858D has two motion capture modes in addition to still capture to accommodate any shoot. Touch to set shutter speeds and frame rates for HD-Cine cameras or quickly select frame rates and shutter angles for Cine cameras. Creating unique frame rates and shutter angles for special effects is just a finger tip touch away.

Frame Rate
Shutter Speed

Shutter Angle
Frame Rate

HD CINE Mode   **CINE Mode**

Select Frame Rate to Edit

Measuring Screen (CINE Mode)
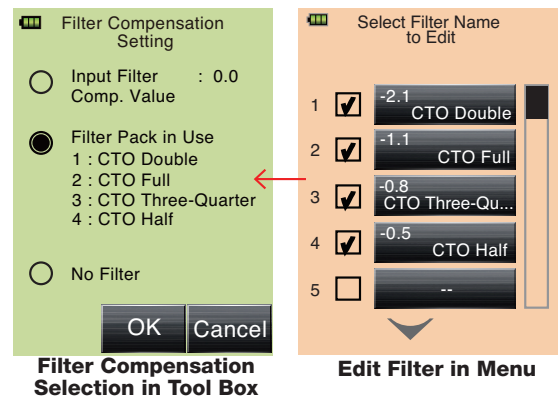
Select Shutter Angle to Edit

Infinite Frame Rate/ Shutter Angle

Special effects and light sources can push standard camera settings to their limits. That's why the L-858D also allows creating unique frame rates and shutter angles up to 20 user-customized values to enable precise exposure and lighting, producing the very best images and reducing time in post-production.

Unique Filtration Compensation Mode

Like all light and exposure meters, the L-858D is calibrated for visual light. Because meters can't measure filtered light by design, Sekonic designers added a unique Filter mode that enables getting exact light levels with touch screen ease. Touch the L-858D to instantly call up light-source or camera filtration expressed in industry standard terms. For special filters or applications, create a unique filter factor and give it a name. Up to four filters can be used together as a pack to assure full control in virtually any situation.


Filter Compensation Selection in Tool Box

Edit Filter in Menu

Brightness along with exposure

Brightness alone (Lux mode)

Illuminance or Luminance Measurement

Brightness measurements in Lux or FC (Foot Candles) and Cd/m2 or FL (Foot Lambert) position the L-858D as a major player on movie sets around the world. It can display brightness along with exposure measurements or just brightness alone.
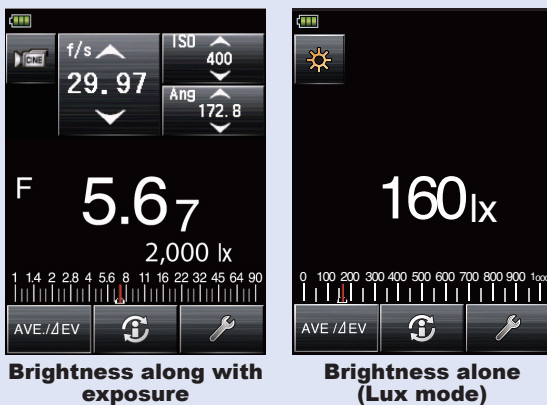
Contrast Function

The L-858D continuous measurement mode provides a contrast range measurement to evaluate the overall lighting conditions. In addition, you can also check lighting ratios or the evenness of an illuminated background, scene or light source. Changes in the measured values are related to a saved measurement such as the center of a background or key light by pressing AVE./ΔEV icon.
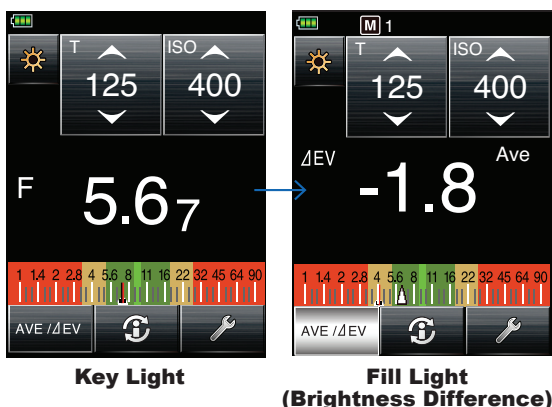
Key Light

Fill Light (Brightness Difference)

All Weather Design

All buttons, switches and compartments are sealed and the housing has been design to endure rugged outdoor conditions. Ideal for on-location shooting, at the beach, in the rainy or in humid environments. Dust-proof and splash-proof (JIS Standard Water Resistance Class 4)

THE COLOR TOUCH SCREEN LIGHT METER WITH POWER CONTROL AND EXPOSURE PROFILE

Creative image makers, still or motion, have known for generations that light and the ability to control it has always been the key to capturing the essence of still or moving images. Today's sophisticated cameras and lighting equipment offer more control and creative possibilities than ever before. To compliment these advances in the photographic, cine and video worlds, Sekonic offers the most innovative and advanced light-measuring instrument in the industry.

Seven Meters in One

PHOTO mode:

The L-478-series takes the mystery out of mixing ambient light and flash. Select the measurement mode that fits your shooting style with just the touch of your fingertip. Measure the brightness of a single light source or the exposure for the entire scene. Measure flash with cord or cordless mode or trigger your flash units wirelessly with the built-in radio transmitter (L-478DR). Rest assured that every measurement is backed with the most accurate readings via Sekonic's Exposure Profiling System that matches and compensates for your DSLR exposure charactistics.

✓ **Flash Meter**
✓ **Ambient Meter**
✓ **Incident Meter**
✓ **Reflected 5 degree spot meter (with optional viewfinder attachment)**

HD_CINE/CINE Mode

The L-478 series has motion capture modes accomodating today's sophiscated video and CINE camera systems. With the touch of your finger, select the shutter speeds, frame rates and shutter angles for your camera. Create unique frame rates and shutter angles for special effects. For quick and creative shoots, select your favorite custom stored compensation filter or gel pack. Via Sekonic's Exposure Profiling System, every measurement is accurate and precise.

✓ **HD Cine Meter**
✓ **Cine Meter**
✓ **Illuminance/Luminance Meter**

Pressure sensitive 2.7" large color LCD Screen with tap or scroll interface. Adjustable color brightness for fast, more intuitive, better interactive control.

Programmable to match the exposure characteristics of your DSLR or Cine camera. Match the response of film or digital exposure characteristics, dynamic range, reflected, incident, flash or ambient light throughout the ISO range of your camera, using Data Transfer Software.

Elinchrom, Phottix and Poc-ketWizard radio system are available for flash triggering and/or power control.

The world's first meter to offer HD/CINE and CINE mode with features such as: frame rate, shutter angle, lux, foot-candle, cd/m2 and foot-lambert.
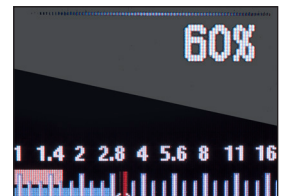
Measure ambient and flash output simultaneously. Displays ambient/flash ratio in two separate ways: on a graphic color bar, as a percentage of flash. In addition, total exposure is shown in f/stop.

Digital Exposure Control - Camera Calibration

Because every digital camera, lens, and software is unique in its ability to capture and process light they can produce differences in the Tonal Range (dynamic range) and exposure of an image. Knowing the limits of your camera's ability to make better exposures with less post-processing ensures you'll get what you see.

Sekonic's pioneering Data Transfer Software enables quick dynamic range mapping and camera/meter calibration for the most precise control of light. Create and store up to ten camera exposure profiles with Sekonic, X-Rite or datacolor brand calibration targets. Sekonic, X-Rite or datacolor brand targets or use the touch display to directly enter profile information obtained from other sources. See page 10 for full explanation on the Data Transfer Software.

Three Wireless Triggering/Power Control System Available (L-478DR series only)

The L-478DR series has a built-in wireless triggering system that offers a cordless solution for triggering and/or flash power control. The L-478DR series offers many of the features available to wireless shooters including selective zone/group triggering, multi-channel selection and even camera triggering (w/PocketWizard only). There are three models compatible with each radio system:

L-478DR - - - PocketWizard

**PocketWizard**
Technology Built-In

Original L-478DR started with PocketWizard radio: Standard system and ControlTL system. The Sekonic L-478DR features 1) triggering any flash unit with a PocketWizard connected and measuring them at the same time, and 2) remote flash power control of up to three separate zones of lighting. Utilizing PocketWizard ControlTL technology, changing flash power output is as easy as sliding your finger tip on an intuitive touch screen slider. Change the power settings on your Nikon or Canon Speedlights mounted on PocketWizard FlexTT5 transceivers or select studio flash units connected to ControlTL receivers. Switch Zones on or off to measure remote flash units separately for precise lighting ratios scenario.

L-478DR-EL - - - Elinchrom

elinchrom
Technology Built-In

The L-478DR-EL's power screen enables separate selection of any of the four lighting Groups, 1,2,3,4, for flash brightness adjustment in 0.1 increments by simply tapping buttons on the meter's touch screen. The F-number value for the light being measured appears in a central area on the screen as well as over respective group selection button. The measured value for each group is maintained as a visual record of the brightness difference of the lights in use so that lighting ratios can be easily determined. Once flash adjustment is made for each group, ALL flashes can be triggered for a total reading for exposure. The L-478DR-EL can also be used to measure and adjust modeling light brightness of Elinchrom flashes for cine/video lighting applications. The L-478DR-EL triggering and power control is compatible with all Elinchrom flashes that use the EL-Skyport triggering system. ControlTL receivers. Switch Zones on or off to measure remote flash units separately for precise lighting ratios scenario.

L-478DR-PX - - - Phottix
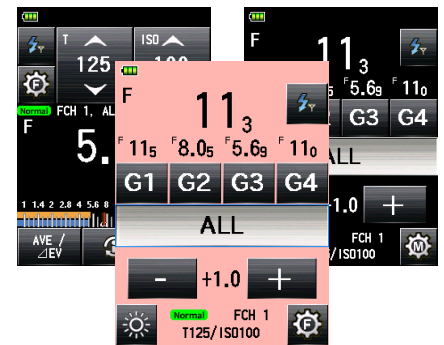
Phottix
Technology Built-In

The L-478DR-PX flash control screen allows selection of a single group or a combination of groups for flash brightness measurement. The F-number value for the light being measured appears in a central area on the screen as well as over respective group selection button. The measured value for each group is maintained as a visual record of the brightness-difference of the lights in use so that lighting ratios can be easily determined. The L-478DR-PX group selection and triggering is compatible with Phottix flashes and radios that are compatible with the Phottix Strato II protocol. This includes flashes connected to the Strato and Strato II receivers and the Atlas II transceivers. Compatible Phottix flashes include the Indra series, Juno series and Mitros+ series.

Flash Analyzing Function

The L-478-series meters offer a quick and easy way to balance flash and ambient light with one press of the measuring button.That's because they measure ambient and flash simultaneously and automatically indicate the percentage of flash in the total exposure. Touch the screen to adjust settings to get the perfect ambient to flash ratio. The meter's analog display uses color bars to graphically display the relationship between the ambient and flash levels.
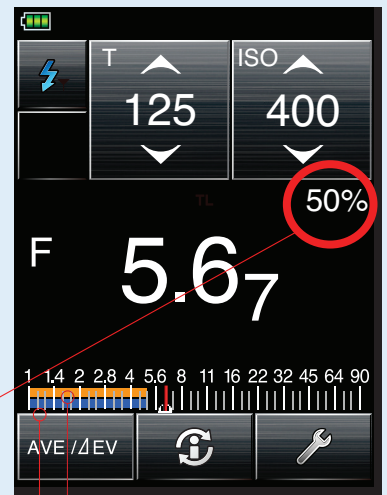
20% Flash　　**50% Flash**　　**80% Flash**

Percentage of flash

Ambient component (orange)

Flash component (blue)

Enhanced HD Cine / Cine Features

Today's digital cameras offer both still and motion capture. Offering shooters seamless cross platform media capabilities, these cameras provide a variety of uses in a single production. To complement this sophisticated cameras, the L-478 series has two motion capture modes in addition to still capture to accom-modate any shoot. Touch to set shutter speeds and frame rates for HD-Cine cameras or quickly select frame rates and shutter angles for Cine cameras. Creating unique frame rates and shut-ter angles for special effects is just a finger tip touch away.
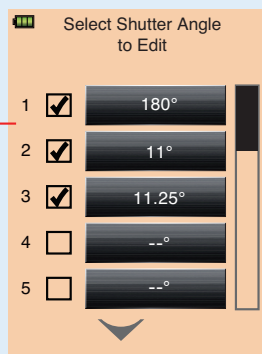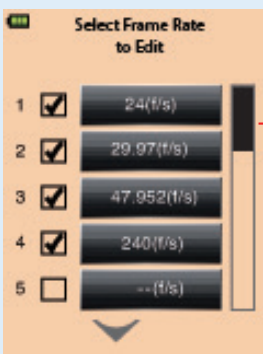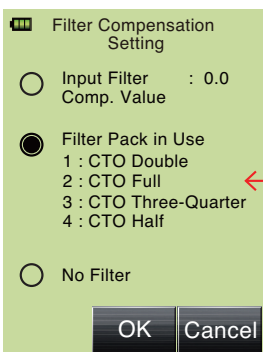
Frame Rate
Shutter Speed
Shutter Angle
Frame Rate
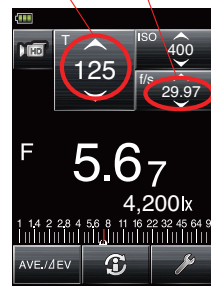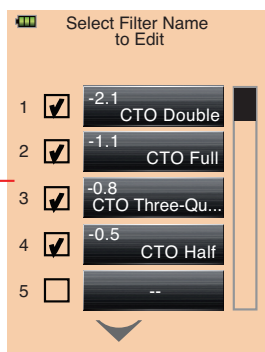
HD CINE Mode　　**CINE Mode**

Infinite Frame Rate/ Shutter Angle

Special effects and light sources can push standard camera settings to their limits. That's why the L-478 series also allows creating unique frame rates and shutter angles up to 20 user costumized values to enable precise exposure and lighting, producing the very best images and reducing time in post-produc-tion.

Unique Filtration Compensation Mode

Like all light and exposure meters, the L-478 series are calibrated for visual light. Because meters can't measure filtered light by design, Sekonic designers added a unique Filter mode that enables getting exact light levels with touch screen ease. Touch the L-478 series to instantly call up light-source or camera filtration expressed in industry standard terms. For special filters or applications, create a unique filter factor and give it a name. Up to four filters can be used together as a pack to assure full control in virtually any situation.

Filter Compensation Selection in Tool Box　　**Select Filter Name to Edit in Menu**

DATA TRANSFER SOFTWARE

Digital Camera Exposure Profiling & Light Meter Utility
Data Transfer Software
SEKONIC

The L-858D and L-478 series light meters are designed to learn the exposure characteristic of your digital camera. By compensating for exposure and dynamic range limitations, these programmable meters can guide in capturing a perfectly exposed digital image for the ultimate in reproduction quality print or presentation.

The link between these programmable light meters and the camera is Sekonic's Data Transfer Software (DTS). The Sekonic DTS program evaluates test target images capture from your camera and creates an exposure profile of your camera's capabilities. These profiles are then transferred to either the L-858D or L-478 series light meters for real time use. In addition, the DTS program offers exposure profile editing, loading and unload different profiles as well as firmware update. Custom Settings for both the L-858D and L-478 series are quick and easy through the use of the DTS program in place of making the changes in the meters.

The only light meters that show you the Dynamic Range of your D-SLR.

The dynamic Range of a digital camera can be different due to it's unique camera sensor file format (Tiff, JPEG, RAW, etc.), selected ISO and more. Knowing the limits of the digital camera (or film) is essential in exposure control. The graph below shows the Latitude or Dynamic range of a particular digital camera (or film), as well as the Clipping points (where the exposure exceeds the dynamic range of the sensor film).
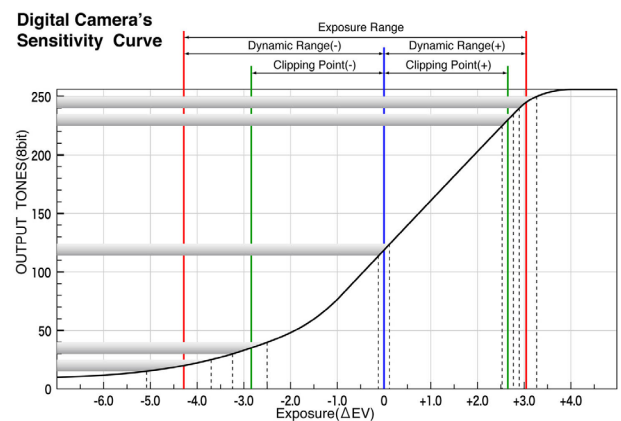
Photographed by a Camera with Narrow Exposure Range

Photographed by a Camera with Normal Exposure Range

Photographed by a Camera with Wide Exposure Range

Digital Camera's Sensitivity Curve

Exposure Range
Dynamic Range(-) | Dynamic Range(+)
Clipping Point(-) | Clipping Point(+)

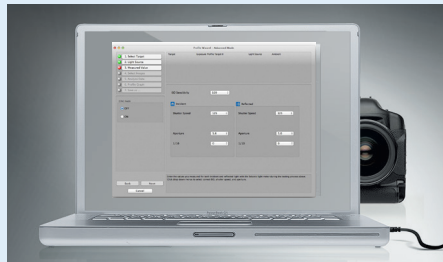OUTPUT TONES(8bit)

Exposure(ΔEV)

Exposure profiling

Step 1

Shoot target (Sekonic, X-Rite or datacolor brand) with the equipment you use most.

Step 2

Transfer images into your computer. If images are captured as RAW files convert them to TIFF or JPEG for analyzing. Enter ISO, incident and reflected shooting data into the Data Transfer Software and DTS will evaluate and create a graph of dynamic range and clipping points for your camera. Name and save the profile data for future use.

Step 3

Connect the meter to your MAC or PC computer and transfer the exposure profiles. Profiles can be stored and recalled at any time. Exposure latitude warnings alert you when the exposure exceeds the range of the camera.

DATA TRANSFER SOFTWARE
DTS

## Display a graph of the sensitivity curve for your DSLR

Data Transfer Software automatically analyzes the test images and displays the sensitivity curve of your camera. It also enables you to set the dynamic range and clipping point in your way, and to transfer the exposure profile data into the light meter. Additionally, it is possible to compare multiple exposure profiles on a basis of ISO sensitivity or camera.

Main Screen
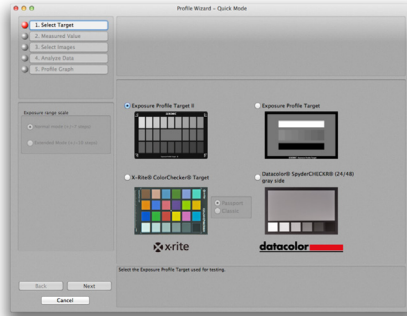
The Wizard - The Easy way to create Exposure Profile

The Wizard enables you to create the exposure profile in an easy way by just following the instruction on the screen. To create a new profile, select "Quick Mode - for a fast and simple profile" , "Advanced Mode - for a more precise exposure profile" or "Manual Input Mode - direct input Manually".
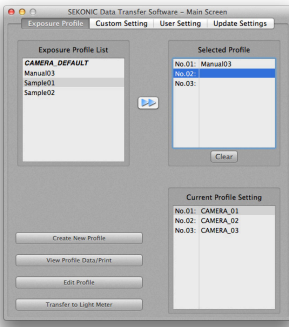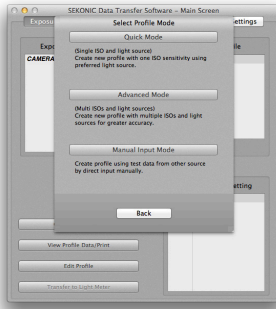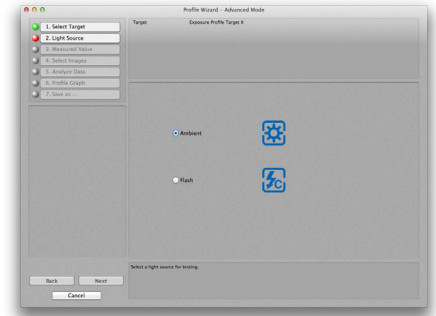

"Profile Mode" Selection Screen


"Select Target" Screen

"Select Light Source" Screen

Analyze the test images automatically

A preview and Exif information are displayed when clicking a thumbnail image, so you can be free from entering the exposure value of each selected image.

Just select the necessary images and align the cross mark for the analyzing area, and then the data is automatically analyzed.
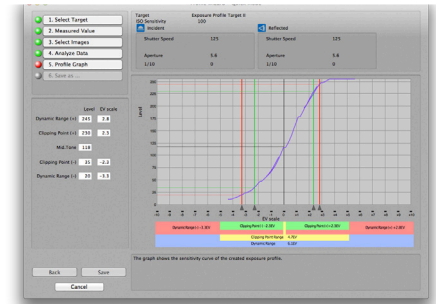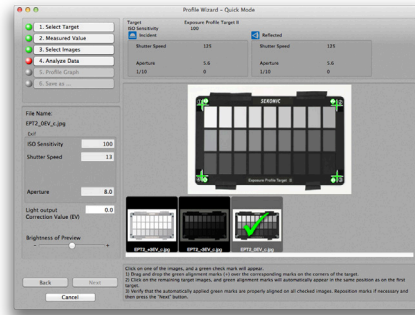
Transfer the data via USB from the computer to the light meter.

Connect the USB cable to the USB port (on the side of the light meter) and the other end to the USB port (on the computer) to transfer the computer data to the light meter. While transferring the data, the USB icon blinks on the connected light meter's screen to confirm that the data transfer is in progress and the meter and computer are correctly connected. It's also possible to transfer data from the light meter to the computer.

Customize your meters via Data Transfer Software

Custom Settings for both the L-858 and L-478 series are quickly and easily made through the Data Transfer Software. Both the meter's firmware and Data Transfer Software are automatically updated while DTS is connected to the internet.
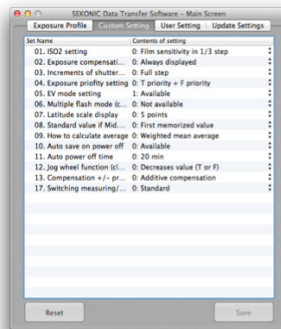
Custom Setting

Update Screen

THE PERFECT BLEND OF PHOTO/CINE FEATURES ALL IN ONE LIGHTMETER
COMPACT | LIGHTWEIGHT | INTUITIVE DESIGN

Inspired by the popular legacy of the L-308 series that began almost a quarter of a century ago, the NEW Sekonic FLASHMATE L-308X addresses significant features and functions that meet and exceed the needs of today's Photo and Cine/Video shooters. The L-308X includes the familiar blend of compact, lightweight and intuitive design, which has made the L-308 series so popular, as well as the Cine/Video features of the affordable DigiCineMate L-308DC.
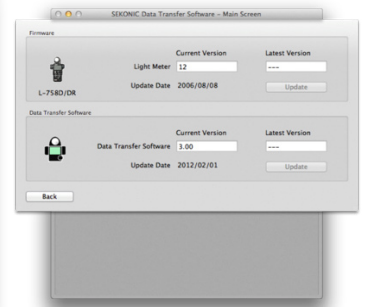
The versatility of the latest DSLR cameras has expanded the capabilities and creativity of today's image makers. With just one camera, today's shooters have become multi-media image makers, blending both still and moving images seamlessly, for the ultimate storytelling.Offering all the features expected from the latest generation L-308 series, the NEW FLASHMATE L-308X features an LCD backlight, Aperture priority (Photo Mode), and ISO 850 setting (for native ISO Cine Camera's). The FLASHMATE L-308X is the perfect blend of Photo/Cine features all in one light meter.

Three Meters in One

Whether your shooting assignment is capturing images at a wedding, producing short training videos for a local business or producing a cinematographic documentary, the FLASHMATE L-308X accommodates your lighting challenge with accurate and comprehensive measurements that put the image maker in control.

PHOTO Mode:

The FLASHMATE L-308X offers full exposure control for photographer's on-location or in the studio. In addition to Shutter Priority Mode, the NEW Aperture Priority Mode offers the carefree depth-of-field control provided on most DSLR's. In addition, a range of ambient and flash functions including Cord and Cordless flash measurement, as well as ambient EV measurement are fully displayed.
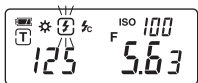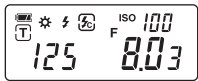
Shutter Speed Priority Mode
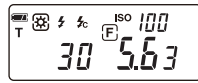
Aperture Priority Mode
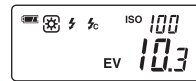
EV Mode

Cordless Flash Mode
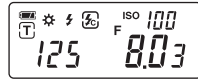
Cord Flash Mode

HD_CINE Mode:

A compact and portable choice for today's videographers, the FLASHMATE L-308X offers an impressive range of features only found more sophisticated models. Determining the correct exposure reading and controlling the lighting situation with the shutter speed and frame rate settings, provides aperture readings within one-tenth stop accuracy.
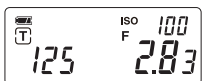
Shutter Speed Priority Mode
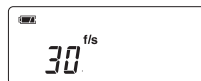
Frame Rate Setting

Simplified Illuminance Mode

HD_CINE Mode:

Designed with the professional in mind, the FLASHMATE L-308X can take on the challenges of digital cinematography. Select from the right combination of frame rates and shutter angles to achieve the exposure control necessary with one-tenth stop accuracy. Truly universal, the FLASHMATE L-308X offers Lux (lx) and foot-candle (fc) readout enabling a quick set up of lighting in a compact, affordable and easy-to-use design.
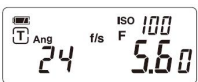
Frame Rate Priority Mode

Shutter Angle Mode

Simplified Illuminance Mode

Other Key Features:
✓ **Illuminated display - Backlight LCD turns on automatically under EV5.**
✓ **Calibration compensation - Adjustable +/-1.0EV in 0.1 step.**
✓ **Custom setting – 1) Select display mode, 2) Increment of measurement and 3)Unit of illuminance (lx or fc)**

Three Ways to Measure

Light receptor 1 (lumisphere)
Slide the mounting umisphere to the left until it clicks to switch to incident light measurement.

Light receptor 2 (lens)
Slide the built-in lumisphere to the right until it clicks into position for reflected light measurement

Light receptor 3 (lumidisc)
Slide the built-in lumisphere to the right and insert the lumidisc (optional) into the slot over the light receptor lens to measure flat subjects or lighting contrast with precision.

PURE, SIMPLE AND EFFECTIVE

The classic Sekonic L-398A has become a favorite with cinematographers around the world for over half a century. A pure analog needle and exposure dial system, the L-398 provides all exposure combinations at a single glance. And because it uses an amorphous photocell that generates its own power, there is no need for a battery. Incident measurement with it's swivel head and lumisphere or lumidisc provide the lighting information necessary for lighting setups. The Sekonic L-398A Studio Deluxe III is an ideal prime or back-up meter. for still or motion picture shooters.

Instant reading of aperture/shutter combinations with dial ring

It is possible to read combinations of aperture values and shutter speeds on the dial ring at one view.

Amorphous photosensor eliminates need for battery

As light receptor element, amorphous photosensor is newly adopted. It is not necessary to bring replacement of batteries.

Continuous measurement

The needle is released by holding and turning the measuring button. At this time, the meter will deflect freely even if the stopper button is released.

How to Use L-398A

Step 1

You can set ISO in ISOindicator window by rotating ISO sensitivity selector knob.

Step 2

Pressing the measure button causes the meter needle to deflect according to brightness level. When the measuring button is released, the needle stops at a fixed position indicating the measured values.
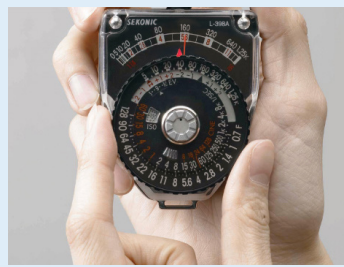
Step 3

Foot-candle values can be read on the foot-candle scale measurement scale. Rotate dial ring to set scale mark to match the foot-candle value on dial scale.

Step 4

Once the foot-candle scale value has been matched with the dial scale, any of the corresponding shutter speed and aperture combinations will provide the correct exposure.

Slide Set for L-398 Series (Optional Accessory)

A total of 11 slides are available, for direct reading of aperture on Foot-Candle scale in incident measurement

A CLIP ON LIGHT METER FOR BOTH INCIDENT & REFLECTED LIGHT MEASUREMENT

The twinmate L-208 can be mounted on the camera's hot shoe using the accessory shoe mounting plate. The compact design fits nicely on classic cameras without built-in exposure meters

Instant reading of aperture/shutter combinations with dial ring

It is possible to read combinations of aperture values and shutter speeds on the dial ring at one view.

Shoe Mounting on Camera

The accessory shoe is mounted using shoe mounting plate. The mounting location of the shoe mounting plate is variable; therefore mount it correctly for the camera that you are using.

One Hand Operation

It is possible to operate with one hand by using the guide needle position retained during 15 seconds after measurement.

Selection of reflected or incident light measurement at one touch of sliding the lumisphere

Selection of reflected or incident light measurement at one touch of sliding the lumisphere. You can select reflected or incident light measurement by sliding the lumisphere until it clicks. The light receiving angle for reflected light is 33 degrees (approx. 73mm) corresponds to approx. 70% of angle for 50mm standard lens of 35mm SLR camera (approx. 46 degrees). Make measurements using the fan-shaped lines indicating 33° light receiving angle on the scale plate as a guide.

How to Use L-208

Step 1

You can select incident or reflected measurement by sliding the lumisphere to the right or left until it clicks.

Step 2

You can set ISO in ISO indicator by rotating ISO switch over knob on the dial ring.

Step 3

Pressing the measure button causes the meter needle to deflect according to brightness level. When the measuring button is released, the red guide needle stops at a fixed position for 15 seconds indicating the measured values.

Step 4

Rotate dial ring to align the green match needle with the red guide needle. Any of the corresponding shutter speed and aperture combinations will provide the correct exposure.

Specification and Comparison Chart

Product Name and Model				L-858D	L-478DR series
Measuring System	Incident light	Swivel head		Horizontal (270 degrees)	Horizontal (270 degrees)
		Lumidisc		Retractable	Retractable
	Reflected light	Switching incident/reflected		Operation on LCD	Removable
		Light receiving angle		1° (Built-in)	VF 5° (Optional VF)
Measuring Mode	Ambient light	T priority		Yes	Yes
		F priority		Yes	Yes
		TF priority		Yes	Yes
		HD_CINE (T priority)		Yes	Yes
		CINE (f/s priority)		Yes	Yes
		Lux/FC		Yes	Yes (w/Optional VF)
		Cd/m^2/FL		Yes	Yes (w/Optional VF)
	Flash light	Cordless/cord-in		Yes	Yes
		Radio triggering		Yes (Optional)	Yes (Built-in)
		Multiple cumulative flash		Yes (Unlimited)	Yes (99 times)
		HSS		Yes	No
		Flash duration analysis		Yes	No
Measuring Range (ISO100)	Ambient	Incident light	EV	-5 to 22.9	-2 to 22.9
		Reflected light	EV	-1 to 24.4	3 to 22.9
		Illuminance	Lux	0.1 to 2,000,000 lx	0.63 to 2,000,000 lx
			FC (Foot-Candle)	0.01 to 180,000 fc	0.10 to 180,000 fc
		Luminance	Cd/m^2	0.1 to 980,000 cd/m^2	1.0 to 980,000 cd/m^2
			FL (Foot-Lambert)	0.03 to 290,000 fl	0.29 to 290,000 fl
	Flash	Incident light	F	F0.5 to F161.2(=128.9)	F1.0 to F161.2(=128.9)
		Reflected light	F	F1.0 to F161.2(=128.9)	F2.8 to F161.2(=128.9)
		Illuminance	Lux·s	No	No
			FC (Foot-Candle)·s	No	No
Display/Setting Range	ISO Sensitivity			3 to 13.107.200 plus 850	3 to 409,600 plus 850
	Ambient	Aperture	Range	F0.5 to 161.2 (=128.9) in 1, 1/2, 1/3 step	F0.5 to 161.2 (=128.9)) in 1, 1/2, 1/3 step
			Analog scale	F1.0 to 90 in 1/3 step	F1.0 to 90 in 1/3 step
		Shutter speed	Range	30m to 1/64,000s in 1, 1/2, 1/3 step	30m to 1/64,000s in 1, 1/2, 1/3 step
			Analog scale	4s to 1/2,000s in 1/3 step	4s to 1/2,000s in 1/3 step
		Frame Rate	Range	1 to 1,000 f/s plus other 20 settings (customized from 0.001 to 99,999.999)	1 to 1,000 f/s plus other 20 settings (customized from 0.001 to 9,999.999)
		Shutter angle	degrees	1 to 358 deg. plus other 20 settings (customized from 0.001 to 360)	1 to 358 deg. plus other 20 settings (customized from 0.001 to 360)
		EV	Range	-73.9 to 103.8 for incident -69.9 to 105.3 for reflected	-27.9 to 55.8
			Analog scale	-3.0 to +3.0 EV for incident -7.0 to +7.0 EV for reflected	-3.0 to +3.0 EV for incident -7.0 to +7.0 EV for reflected
	Flash	Aperture	Range	F0.5 to 161.2(=128.9) in 1, 1/2, 1/3 step	F0.5 to 161.2(=128.9) in 1, 1/2, 1/3 step
			Analog scale	F0.1 to 90 in 1/3 step	F1.0 to 90 in 1/3 step
		Shutter speed	Range	30m to 1/16,000s in 1, 1/2, 1/3 step	30m to 1/1,000s in 1, 1/2, 1/3 step
		Flash duration	Range	1/40 to 1/55,500s（25ms to 18us）	No
			t value	0.1 to 0.9 (in 0.1 step)	No
Functions		Exposure Profile		Yes	Yes
		Memory		Yes (9 times) both incident and spot	Yes (9 times)
		Average		Yes	Yes
		Contrast Function		Yes (+/-9.9EV in 1/10 step)	Yes (+/-9.9EV in 1/10 step)
		Flash Analyzing		Yes (in 10% step)	Yes (in 10% step)
		Filter compensation		Yes (-20 to 20EV)	Yes (-12 to 12EV)
		Filter factor number compensation		Yes (preset 24 types plus 6 settings)	Yes (preset 24 types plus 6 settings)
		Exposure compensation		Yes (-9.9 to +9.9)	Yes(-9.9 to +9.9)
		Calibration compensation		Yes (-1.0 to +1.0)	Yes(-1.0 to +1.0)
		Custom settings		Yes (17 items)	Yes (13 items)
		LCD backlight		Yes	Yes
		Water registance		Yes	No
		Diopter adjustment		Yes (-1 to 2.5 D)	No
		Tripod socket		Yes	No
Others		Operating temperature		-10 to 50	-10 to 50
		Storage temperature		-20 to 60	-20 to 60
		Power source		1.5V x 2 (AA battery)	1.5V x 2 (AAA battery)
		Weight (without battery)		240g	140g
		Dimensions (W x H x D)		94 x 176 x 49	57 x 140 x 26
		LCD		2.7" color dot matrix LCD	2.7" color dot matrix LCD
Standard Accessory		Software/Utility		Yes (Downloaded from website)	Yes (Downloaded from website)
		Operating Manual		Yes (Downloaded from website)	Yes (Downloaded from website)
		Quick Guide / Start Up Guide		Yes (included in the package)	Yes (included in the package)
		Lens Cap		Yes	No
		Strap		Yes	Yes
		Synchro terminal cap		Yes (built-in)	Yes (built-in)
		Soft case		Yes	Yes
		Lumidisc		Yes (same as Lumisphere)	Yes (same as Lumisphere)
		Anti glare film		Yes	Yes
Optional Accessory		Viewfinder		No	Yes (5°)
		Lumishphere		Yes	Yes
		Lumidisc		Yes (same as Lumisphere)	Yes (same as Lumisphere)
		Lumigrid		No	No
		Deluxe case		No	Yes
		Synchro cord		Yes	Yes
		Radio transmitter		Yes (Broncolor, Elinchrom, Godox, Phottix Strato II. PocketWizard)	No (built-in PCB)
		Step-up ring		Yes	No
		Exposure Profile Target / II		Yes	Yes

| L-478D	L-308X	L-398A	L-208
Horizontal (270 degrees)	No	Horizontal (300 degrees)	No
Retractable	Removable (Optional)	Removable	No
Removable	Slide	Removable	Slide
VF 5° (Optional VF)	40° (Built-in)	30° (Lumigrid)	33° (Lumigrid)
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	No	No	No
Yes	Yes	Yes	No
Yes	Yes	Yes	No
Yes (w/Optional VF)	Yes	Yes (FC only)	No
Yes (w/Optional VF)	No	No	No
Yes	Yes	No	No
No	No	No	No
Yes (99 times)	No	No	No
No	No	No	No
No	No	No	No
-2 to 22.9	0 to 19.9	4 to 17	3 to 17
3 to 22.9	0 to 19.9	9 to 17	3 to 17
0.63 to 2,000,000 lx	2.50 to 190,000 lx	No	No
0.10 to 180,000 fc	0.23 to 17,000 fc	0 to 1,250 fc (scale)	No
1.0 to 980,000 cd/m^2	No	No	No
0.29 to 290,000 fl	No	No	No
F1.0 to F161.2 (=128.9)	F1.0~F90.9	No	No
F2.8 to F161.2(=128.9)	F1.0~F90.9	No	No
No	No	No	No
No	No	No	No
3 to 409,600 plus 850	3 to 8.000 plus 850	6 to 12,000	12 to 12,500
F0.5 to 161.2 (=128.9)) in 1, 1/2, 1/3 step	F0.5 to 90.9 in 1, 1/2, 1/3 step	F0.7 to 128 in 1, 1/3 step	F1.4 to 32 in 1, 1/2 step
F1.0 to 90 in 1/3 step	No	No	No
30m to 1/64,000s in 1, 1/2, 1/3 step	Photo Mode: 60s to 1/8,000s HD_CINE Mode: 1/8s to 1/8,000s in 1, 1/2, 1/3 step	60s to 1/8,000s in 1 step	30s to 1/8,000s in 1 step
4s to 1/2,000s in 1/3 step	No	No	No
1 to 1,000 f/s plus other 20 settings (customized from 0.001 to 9,999.999)	8 to 128f/s	8, 18, 24, 64, 128	No
1 to 358 deg. plus other 20 settings (customized from 0.001 to 360)	45, 90, 180, 270, 360: CINE Mode	No	No
-27.9 to 55.8	-6 to 27.2	1 to 20	3 to 17
-3.0 to +3.0 EV for incident -7.0 to +7.0 EV for reflected	No	No	No
F0.5 to 161.2(=128.9) in 1, 1/2, 1/3 step	F0.5 to 90.9 in 1, 1/2, 1/3 step	No	No
F1.0 to 90 in 1/3 step	No	No	No
30m to 1/1,000s in 1, 1/2, 1/3 step	1s to 1/500s in 1, 1/2, 1/3 step	No	No
No	No	No	No
No	No	No	No
Yes	No	No	No
Yes (9 times)	No	Yes (1 meory with indicator)	No
Yes	No	No	No
Yes (+/-9.9EV in 1/10 step)	No	No	No
Yes (in 10% step)	No	No	No
Yes (-12 to 12EV)	No	No	No
Yes (preset 24 types plus 6 settings)	No	No	No
Yes(-9.9 to +9.9)	No	No	No
Yes(-1.0 to +1.0)	Yes (-1.0 to +1.0)	No	Slide
Yes (13 items)	Yes (3 items)	No	No
Yes	Yes (under EV5)	No	No
No	No	No	No
No	No	No	No
No	No	No	No
-10 to 50	0 to 40℃	0 to 40℃	0 to 40℃
-20 to 60	-20 to 60	-20 to 60	-20 to 60
1.5V x 2 (AAA battery)	1.5V x 1(AA battery)	No battery (amorphous sensor)	3.0V × 1(CR2032 battery)
130g	80g	190g	40g
57 x 140 x 26	63 x 110 x 22	58 × 112 × 34	45 × 65 × 24
2.7" color dot matrix LCD	B&W, Segment type	No	No
Yes (Downloaded from website)	No	No	No
Yes (Downloaded from website)	Yes (Downloaded from website)	Yes (included in the package)	Yes (included in the package)
Yes (included in the package)	Yes (included in the package)	Yes (included in the package)	Yes (included in the package)
No	No	No	No
Yes	Yes	Yes	Yes
Yes (built-in)	Yes	No	No
Yes	Yes	Yes	Yes
Yes (same as Lumisphere)	No (Optional)	Yes	No
Yes	No	No	No
Yes (5°)	No	No	No
Yes	No (built-in)	Yes	No (built-in)
Yes (same as Lumisphere)	Yes	Yes	Yes
No	No	Yes	No
Yes	No	Yes	No
Yes	Yes	No	No
No	No	No	No
No	No	No	No
Yes	No	No	No

SIMPLE, VERSATILE, INTUITIVE ILLUMINOMETER i-346 MONITORS ILLUMINATION MEASUREMENTS AT EVERY LEVEL

The i-346 is an easy-to-use illuminance meter, with a long history in light measurement technology and the design of quality exposure meters. Readings can be made in three different modes: single, continuous, or delayed up to 60 seconds. The large readout can be customized to display in either lux (lx) or foot-candle (fc) increments.

Measuring functions & features

✓ Continuous measuring mode and Single measuring mode
✓ Timer function (in Single measuring mode only) --- 1 to 60 sec.
✓ Selectable LUX/FC display
✓ Movie/TV: Control dramatic lighting
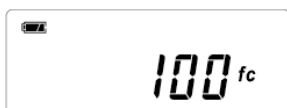
Customer & Application:

✓ Industry: Work Place Illumination
✓ Government: Health Standards
✓ Police: Safety
✓ Sports: Conform to standards
✓ Museum/Gallery: Display Illumination
✓ Agriculture: Regulate light for best growing
✓ Movie/TV: Control dramatic lighting
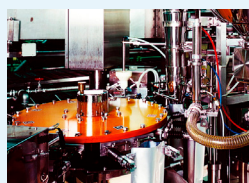
Industrial   Office   Stadium

Specification for Illuminometer

Type	Digital illuminometer for ambient light
Light receptor element	Silicon photo diode
Light source measured	Ambient light
Measuring method	Incident light only (fixed lumidisc)
Measuring cycle	0.5 seconds
Measuring range	2.50 lx to 200,000 lx 0.23 to 18,600 fc
Display	Unit: Lux(lx), Foot-candle(fc) Significant digits : 3 digits
Linearity	+/-5%（23 +/-2 degrees Celsius）
Other functions	Out of measurement range: UNDER or OVER warning display Battery power indicator display Automatic power OFF function(About 4 minutes after last operation)
Battery use	AA battery 1.5V x 1(Alkaline, manganese, lithium, NiMH)
Operating temperature	0°C to 40 °C
Storage temperature	-20°C to 60 °C
Dimensions (W x H x D)	Approx. 63 x 110 x 22 mm
Weight	Approx. 75g(without battery)
Standard accessories	Soft case

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 measure 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 Lminaire Matching Factor (TLMF) and Technical Memorandum (TM-30). 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

Spectrometer (Color Meter)

- ✓ Measures Color Temperature (K)
- ✓ Provides Color Compensation Data
- ✓ Provides Light Quality Information such as CRI, TM-30, SSI, TLCI/TLMF, and Spectrum distribution graph
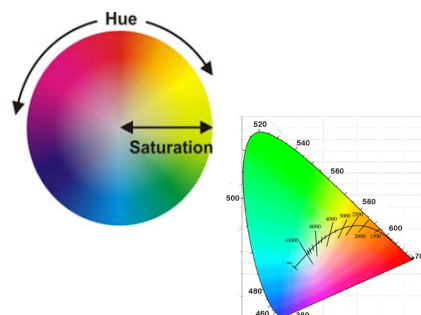
Illuminance Meter

- ✓ Provides Lux, Foot-Candle, Lux Sec., Foot-Candle Sec.
- ✓ Conforms to Class A of JIS C 1609-1: 2006

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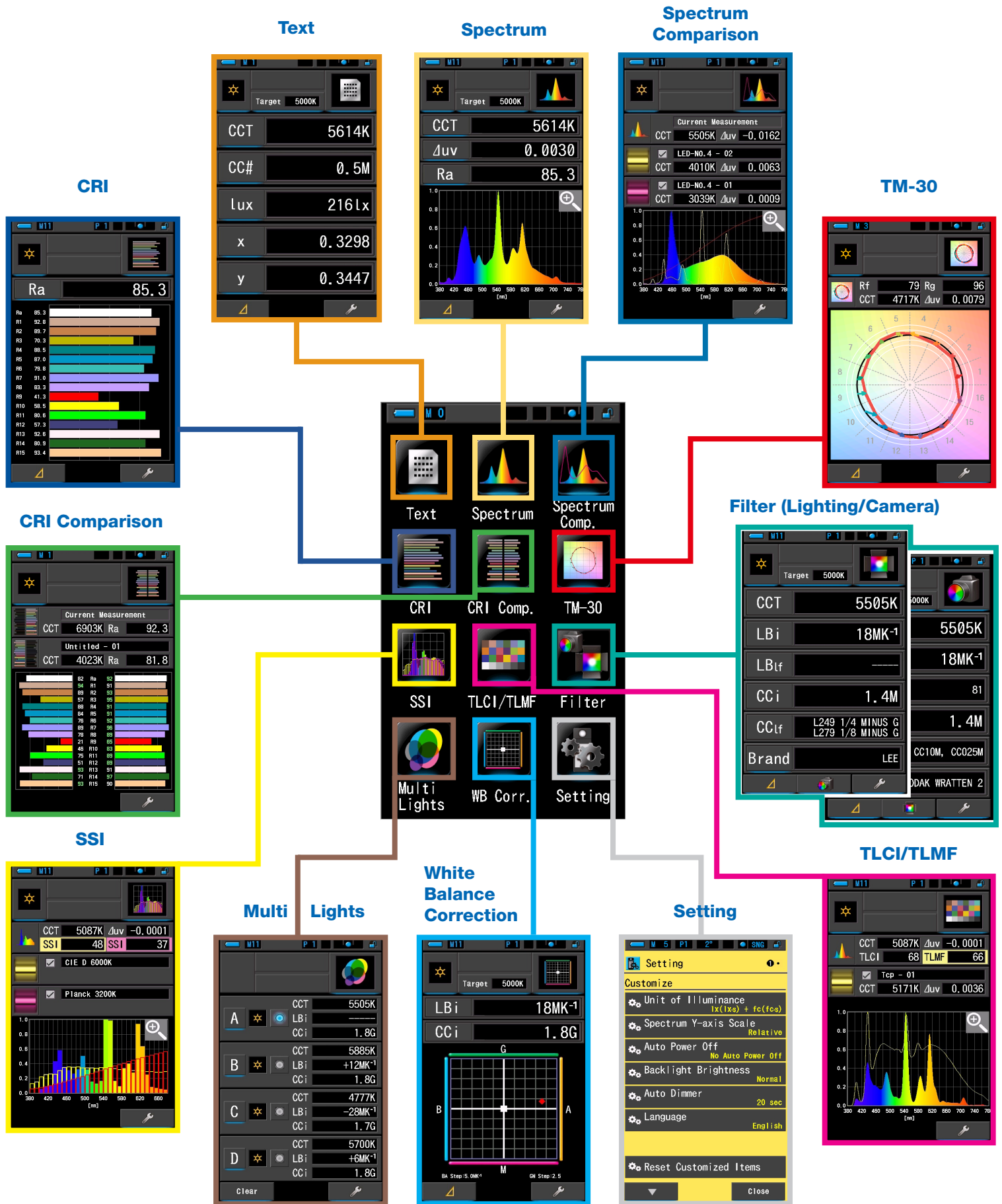
Expanded color rendering properties such as SSI (Spectral Similarity Index), TLCI (Television Lighting Consistency Index), TLMF (Television Luminaire Matching Factor) and TM-30 (Technical Memorandum) on top of CRI (Color Rendering Index).

SPECTROMASTER
C-800

Various Display Modes with Intuitive Color Touch Screen

The C-800's 4.3" large color touch dot-matrix screen displays various modes and functions in a logical and intuitive layout. The main selection screen displays the quick icons for the following Display Modes.

Text

Spectrum

Spectrum Comparison

CRI

TM-30

CRI Comparison

Filter (Lighting/Camera)

SSI

Multi Lights

White Balance Correction

Setting

TLCI/TLMF

Expanded Measurement and Compensation Values

The C-800 SpectroMaster offers a wide selection of measuring values and various compensation solutions. Access to these values can be quickly selected by a tap of your finger on the appropriate icon.

No.	Indication	Display Item Name	Description
1	CCT	Color Temperature	Display Displays correlated color temperature.
2	Δuv	Color Temperature	Deviation Displays deviation from the black-body radiation.
3	Lux, fc	Illuminance *	Displays illuminance in lux or foot-candle.
4	HLx, Hfc	Exposure *	Displays exposure in lux-second or foot-candle-second.
5	Cci	CC Index	Displays the CC correction value in CC index.
6	CC#	CC Filter Number	Displays the CC corrected value in total value of CC filter number.
7	CCcf	CC Camera Filter	Displays the CC correction value in the compensation filter name. The filter brand is selected in the Measuring screens and Setting Mode.
7	CClf	CC Lighting Filter	
8	LBi	LB Index	Displays the LB correction value in LB index.
9	LBcf	LB Camera Filter	Displays the LB correction value in the compensation filter name. The filter brand is selected in the Measuring screens and "Customize" in the Setting screen.
9	LBlf	LB Lighting Filter	
10	Rf	Fidelity Index	Displays the Fidelity index of TM-30 in the value from 0 to 100.
11	Rg	Gamut Index	Displays the Gamut index of TM-30 in the value from 0 to 200.
12	SSIt	SSI Tungsten	Displays the SSI index in the value from 0 to 100 in comparison with CIE Tungsten (3200K).
13	SSId	SSI Daylight	Displays the SSI index in the value from 0 to 100 in comparison with CIE D55 (5500K).
14	SSI1	SSI #1	Displays the SSI index in the value from 0 to 100 in comparison with #1 selected light source (yellow graph) in SSI mode.
15	SSI2	SSI #2	Displays the SSI index in the value from 0 to 100 in comparison with #2 selected light source (red graph) in SSI mode.
16	TLCI	TLCI	Displays the TLCI index in the value from 0 to 100.
17	TLMF	TLMF	Displays the TLMF index in the value from 0 to 100 in comparison with selected memorized value.
18	x	Chromaticity coordinate x	CIE1931 Chromaticity coordinate x
19	y	Chromaticity coordinate y	CIE1931 Chromaticity coordinate y
20	Hue	Hue	Displays the color (i.e. red, green, blue) in the value from 0 to 359 degrees.
21	Sat	Saturation	Dispays the saturation in the value from 0 to 100.
22	Ra	Average CRI	Displays the average value of CRI R1 to R8 in the value of from 0 to 100.
23	R1 to R15	CRI Number	Displays Individual CRI number from R1 to R15 in the value of from 0 to 100.

* Models sold in some countries do not display illuminance and exposure in "fc (fc·s)" due to legal restrictions.
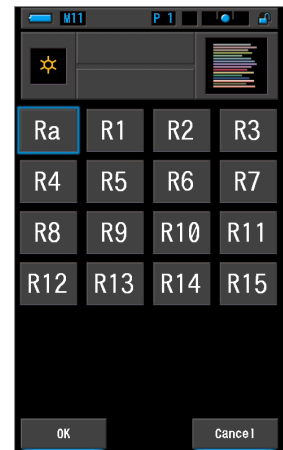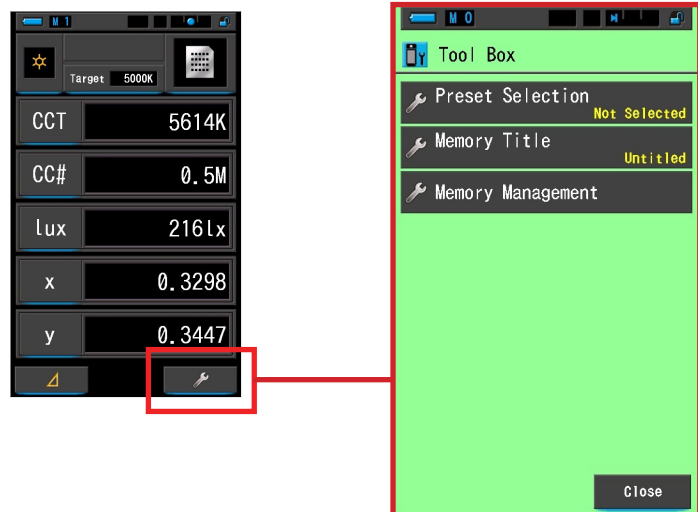
Customize Your Meter

All settings and preferences can be selected and adjusted within this Setting menu.
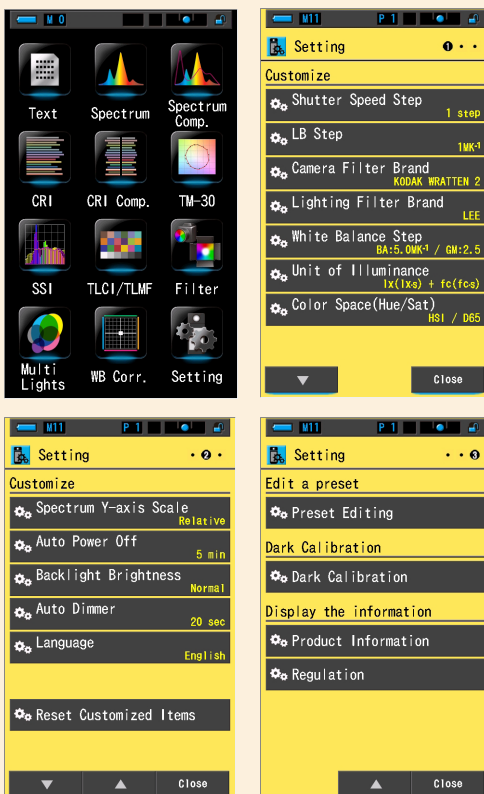
Tool Box

Frequently used settings such as Present selection, Memory titles and Memory management can be selected in the Tool Box by tapping your finger on the wrench icon on all Measuring screen.
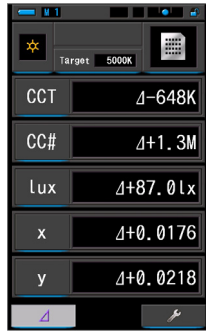
No.	Name	Description
1	Preset Selection	Selection screen to apply preset preferences such as camera or lighting fiilter settings or change the target color temperature.
2	Memory Title	Creates special titles for memorized values.
3	Memory Management	Memorized values can be cleared renamed or recalled.

SPECTROMASTER
C-800

Pic 1

Pic 2

Pic 3

Pic 4

## Other Functions

✔ Up to 99 readings can be memorized (pic 1).

✔ Comparison Function to show the difference between standard value and currently being measured value (pic 2).

✔ Dark calibration can be done by turning the Light Selection Ring to set to the dark calibration position or perform it from Setting menu without a cap to cover the light receiving section *(pic 3)*.

✔ Two AA batteries (alkaline or maganese recommended) conveniently provide portable power *(pic 4)*. A USB cable provides continuous power during measurement, firmware updates, data uploads or downloads and custom settings.

✔ 270° swivel head

C-800 Series Utility Software

The C-800 series Utility (included with the meter) offers an easy ways to make meter settings such as shutter speed increments, filter brand selection and Illuminance units (lux or fc). Memorized data can be evaluated and analyzed using the advantage of a larger screen from a desktop or notebook computer. The latest firmware can be quickly and easily updated to the meter.
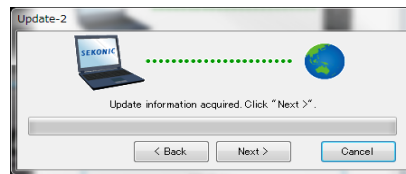
✔ Analyzes and saves the memorized data in the computer.
✔ Provides convenient selection and adjustment of meter settings.
✔ Quick view of Meter Information (serial number, user name, etc)
✔ Updates the meter and Utility Software
✔ Captures the meter screen (C-800 only)
✔ Saves data on computer can be transferred to the meter (C-800 only)
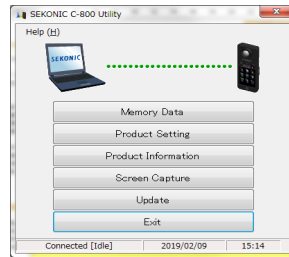
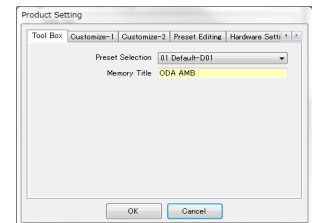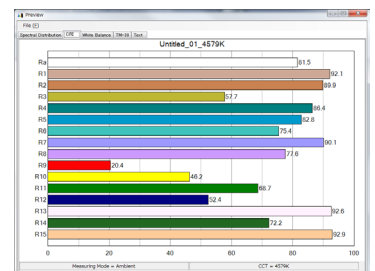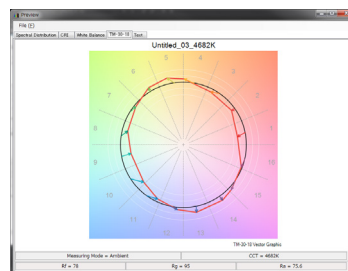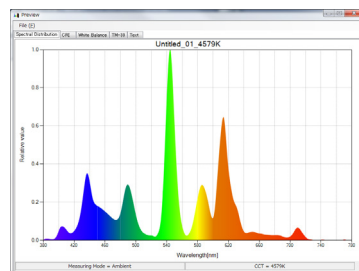**Main Screen**
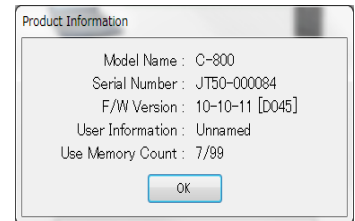
Product Information

Update Screen

Product Setting
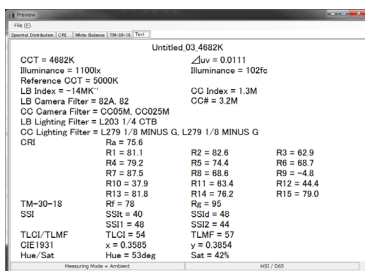
**Memory Data Preview**

SEKONIC**.com**

THE STAND-ALONE SPECTROMETER THAT MEASURES EVERY LIGHT PLUS WIRELESS FLASH

SpectroMaster C-700R is the world's first* stand-alone spectrometer that measures flash light wirelessly (with PocketWizard® transceivers) which truly offers photographers the first advanced spectrometer designs with still and motion shooters in mind.
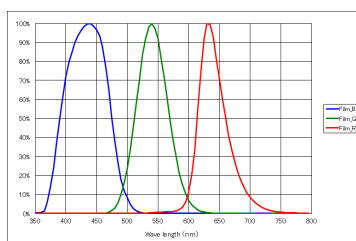
*As of September 2014 Researched by Sekonic

Digital Mode and Film Mode

C-700R offers both DIGITAL mode and FILM mode. Digital mode is designed to match to the human eyes' sensitivity, and Film mode is to match to the film sensitivity which traditional color meters for photo/cine had offered.
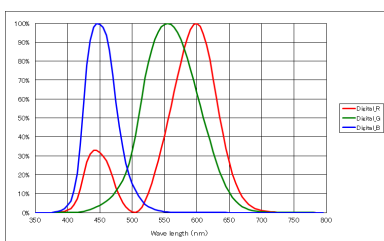
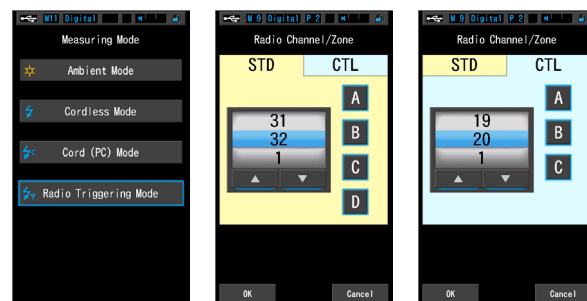**Digital Mode Sensitivity**

Film Mode Sensitivity

Flash Measurement

The only spectrometer to measure wireless flash, the C-700R features a built-in PocketWizard® wireless triggering system. Electronic flash units can be measured remotely. Flash units can be triggered up to 100 feet (30 meters) away using the wireless triggering radio and compatible PocketWizard® recievers. A convenient PC connector or cordless flash mode is also available to trigger flash units.


C-700 Series Utility Software:

The C-700 series Utility (included with the meter) offers an easy ways to make meter settings such as shutter speed increments, filter brand selection and Illuminance units (lux or fc). Memorized data can be evaluated and analyzed using the advantage of a larger screen from a desktop or notebook computer. The latest firmware can be quickly and easily updated to the meter.

✔Analyzes and saves the memorized data in the computer.
✔Provides convenient selection and adjustment of meter settings.
✔Quick view of Meter Information (serial number, user name, etc)
✔Updates the meter and Utility Software

Radio Triggering Modes

Radio triggering mode is selected on the measuring mode screen. Radio Channels and Zones can be set for Standard or ControlTL® wireless mode. Channels and Zones are selected with a quick touch of your finger.

LCD Screens

C-700R has nine Display modes (Text, Spectrum, Spectrum Comparison, CRI, Camera Filter, Lighting Filter, Multi Lights, WB Correction and Setting) plus Tool Box for easy and quick settings/selectios.
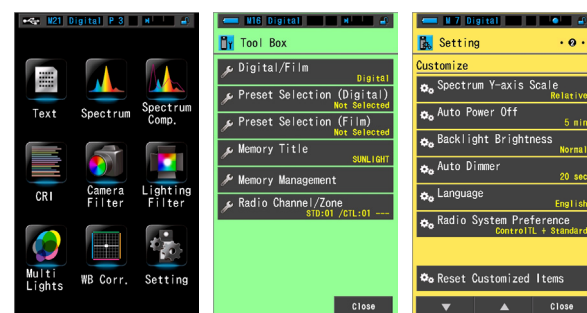
Display Mode Selection Screen   Tool Box Screen   Setting Screen

SPECTROMASTER C-7000

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

Lighting solutions and applications have never been in greater demand and expansion as they are today. Fueled by advances in lighting technology such as OLED's, lighting has become just as much a lifestyle today as it is a necessity in our daily lives. With the overwhelming popularity of these new light sources, the need to understand, manage and control them has never been in more demand. Manufacturing quality and process along with varying color and illumination can often result in consistency issues. In response, Sekonic, a leader for nearly 70 decades in light measurement instruments, offers an ergonomic, intuitive advanced spectrometer, the SpectroMaster C-7000.

The SpectroMaster C-7000 is a portable handheld spectrometer, designed especially for industrial use. Utilizing Sekonic's CMOS linear image sensor design and software, the C-7000 can measure every light source (LED, HMI, Fluorescent, Flash, Natural Light spectrum) with remarkable precision and data feedback. In addition, with recent firmware enhancement it offers expanded lighting interpretation metrics and metering applications for industrial lighting. The new firmware provides expanded color interpretation (TM-30, TLCI/TLMF, SSI and CRI comparison), to enhance its precision color control for every light source. Final with the C-7000 Utility software, output of memorized data is provided at every 1nm (nanometer) increments in CSV format.

Ultimate Tool for Color Control

Utilizing a CMOS Linear Image sensor the C-7000 series spectrometer measures any light source with repeatable and precise accuracy
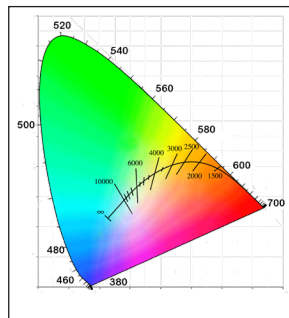
Wide measuring range
*Correlated color temperature (1,600 to 40,000K)
*Illuminance (1 to 200,000lx)

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

Precise Measurement

Measures LED, HMI, Fluorescent, Tungsten, Natural Light and Flash in 1 nanometer (nm) output wavelenght increments from 380 to 780 nm.

It conforms to requirement of "Illuminance meter class" for JIS C 1609-1: 2006 "Illuminance meters Part 1: General measuring instruments" Class A, and DIN 5032 Part 7 Class C.
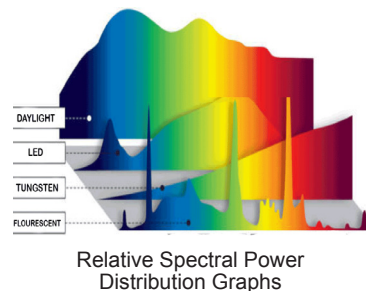
Relative Spectral Power Distribution Graphs

KEY New Features

✓ **TM-30, TLCI/TLMF, SSI, CRI comparison**
✓ **Continous/Single** measurement selection
✓ **Preset Display** (Toolbox menu)
✓ **Windows(7 to 10) and MAC OS** (10.13 to 10.15)Ready Utility
✓ **MiniB USB cable included**
✓ **SDK in Visual Basic** (Windows only) for Remote Control

Memory Function and Data Management

Up to 999 measurements can be stored in memory. C-7000 Utility (in CD-ROM included in the package) offers easy settings and updating firmware of the meter.

Via C-7000 Utility software for both Windows and Macintosh, the output of the spectrum data at every 1nm in CSV format and the graphics of the Spectrum,TM-30, CIE1931/1964 or CIE1976 in JPEG/BMP/PNG format are also available.
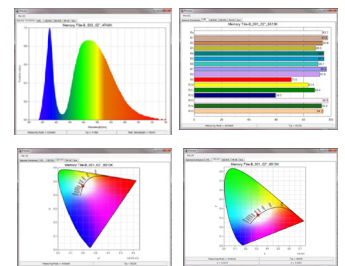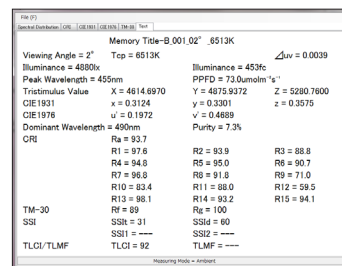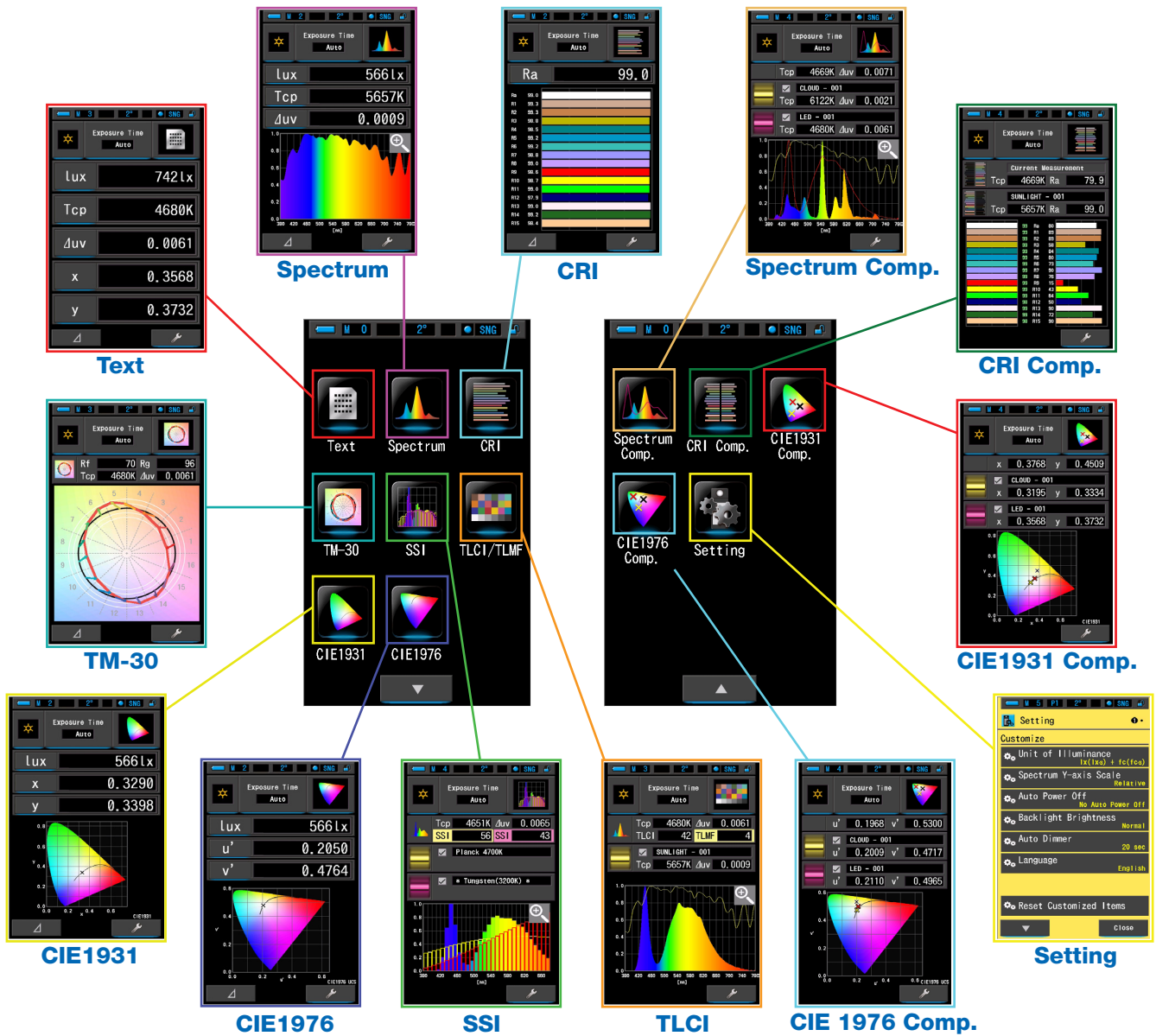
Wide Measuring Range of Color Temperature and Illuminance

Wide measurement range of Color Temperature (1,563 to 100,000K) and illumination (1 to 200,000lx = 0.1 to 18,600fc in ambient light, 20 to 20,500lx • s = 1.86 to 1,900fc • s in flash light)

Various Display Modes with Intuitive Color Touch Screen

The C-7000's 4.3" large color touch dot-matrix screen displays various modes and functions in a logical and intuitive layout. The main selection screen displays the quick icons for the following Display Modes.

Text

Spectrum

CRI

Spectrum Comp.

CRI Comp.

TM-30

CIE1931 Comp.

CIE1931

CIE1976

SSI

TLCI

CIE 1976 Comp.

Setting

Various Display Items

✓ **Correlated color temperature (Tcp)**
✓ **Deviation (Δuv)**
✓ **Tristimulus Value (X, Y, Z, / X10, Y10, Z10)**
✓ **CIE1931(CIE1964) Chromaticity Coordinates (x, y, z / x10, y10, z10)**
✓ **CIE1976 Chromaticity Coordinates (u', v' / u'10, v'10)**
✓ **Dominant Wavelength (λd)**
✓ **Excitation Purity (Pe)**
✓ **Peak Wavelength (λp)**
✓ **Lux(lx) or Foot-Candle(fc) – ambient light**
✓ **Lux sec. (Hlx) or Foot-Candle sec. (Hfc) – flash light**
✓ **PPFD: Photosynthetic Photon Flux Density (μmolm-2s-1)**
✓ **TM-30 (Rf, Rg)**
✓ **SSI (Tungsten, Daylight, SSI1, SSI2)**
✓ **TLCI/TLMF**
✓ **CRI (Ra / R1 to R15)**
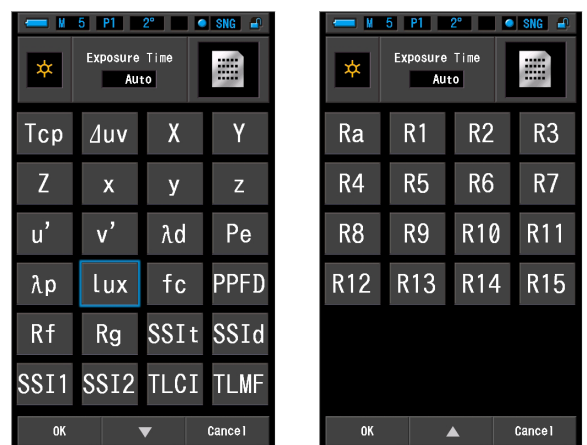
Display Items Library

Specification and Comparison Chart

Product Name and Model		C-7000	C-700R	C-800
Illuminance Meter Class		* Class A of JIS C 1609-1: 2006 "Illuminance meters Part 1: General measuring instruments" * DIN 5032 Part 7 Class C	* Class A of JIS C 1609-1: 2006 "Illuminance meters Part 1: General measuring instruments"	* Class A of JIS C 1609-1: 2006 "Illuminance meters Part 1: General measuring instruments"
Sensor		CMOS linear image sensor	CMOS linear image sensor	CMOS linear image sensor
Spectral Wavelength Range		380nm to 780nm	380nm to 780nm	380nm to 780nm
Output Wavelength Pitch		1nm (Requires the C-7000 Utility to output memorized data)	N/A	N/A
Spectral Bandwidth		Approx. 11nm (half bandwidth)	Approx. 11nm (half bandwidth)	Approx. 11nm (half bandwidth)
Measuring Mode	Ambient light:	Yes	Yes	Yes
	Cord flash	Yes	Yes	Yes
	Cordless flash	Yes	Yes	Yes
	Radio triggering	No	Yes	No
Measuring Range	Ambient light:	1 to 200,000lx (= 0.1 to 18,600fc),	1 to 200,000lx = 0.09 to 18,600fc	1 to 200,000lx = 0.09 to 18,600fc
		1,563 to 100,000K (more than 5lx required)	1,600 to 40,000K (more than 5lx required)	1,600 to 40,000K (more than 5lx required)
	Flash Light:	20 to 20,500lx•s = 1.86 to 1,900 fc•s	20 to 20,500lx•s = 1.86 to 1,900 fc•s	20 to 20,500lx•s = 1.86 to 1,900 fc•s
		1,563 to 100,000K	1,600 to 40,000K	1,600 to 40,000K
Accuracy (Standard Illuminant A)		Illuminance: ±5% ± 1 digit (1 to 2,990lx), ±7.5% ± 1 digit (3,000 to 200,000lx)	Illuminance: ±5% ± 1 digit (1 to 2,990lx), ±7.5% ± 1 digit (3,000 to 200,000lx)	Illuminance: ±5% ± 1 digit (1 to 2,990lx), ±7.5% ± 1 digit (3,000 to 200,000lx)
		x,y: 0.003 (Standard Illuminant A, 800lx)	CCT: ±4MK-1(800lx)	CCT: ±4MK-1(800lx)
Repeatability (Standard Illuminant A)		Illuminance: 1% + 1 digit (30 to 200,000lx), 5% + 1 digit (1 to 29.9lx)	Illuminance: 1% + 1 digit (30 to 200,000lx), 5% + 1 digit (1 to 29.9lx)	Illuminance: 1% + 1 digit (30 to 200,000lx), 5% + 1 digit (1 to 29.9lx)
		x,y: 0.001 (500 to 200,000lx)	CCT: 2MK-1 (500 to 200,000 lx)	CCT: 2MK-1 (500 to 200,000 lx)
		x,y: 0.002 (100 to 499lx)	CCT: 4MK-1 (100 to 499 lx)	CCT: 4MK-1 (100 to 499 lx)
		x,y: 0.004 (30 to 99.9lx)	CCT: 8MK-1 (30 to 99.9 lx)	CCT: 8MK-1 (30 to 99.9 lx)
		x,y: 0.008 (5 to 29.9lx)	CCT: 17MK-1 (5 to 29.9 lx)	CCT: 17MK-1 (5 to 29.9 lx)
Visible-region Relative Spectral		Within 9%	Within 9%	Within 9%
Cosine Response (f2)		Within 6%	Within 6%	Within 6%
Temperature Drift (fT) (Standard Illuminant A 1,000lx)		Illuminance: ±5% of indicated value	Illuminance: ±5% of indicated value	Illuminance: ±5% of indicated value
		x,y: ±0.006	CCT: ±12MK-1	CCT: ±12MK-1
Humidity Drift (fH) (Standard Illuminant A 1,000lx)		Illuminance: ±3% of indicated value	Illuminance: ±3% of indicated value	Illuminance: ±3% of indicated value
		x,y: ±0.006	CCT: ±12MK-1	CCT: ±12MK-1
Power Source		AA (1.5v) x 2 pcs, USB bus power	AA (1.5v) x 2 pcs, USB bus power	AA (1.5v) x 2 pcs, USB bus power
Measurement Time	Ambient light:	Auto - Max.: 15 sec., Min.: 0.5 sec.	Auto - Max.: 15 sec., Min.: 0.5 sec.	Auto - Max.: 15 sec., Min.: 0.5 sec.
		Manual - 0.1s, 1sec.	N/A	N/A
	Flash Light:	1 to 1/500 sec. (in 1 step)	1 to 1/500s (plus 1/75, 1/80, 1/90, 1/100, 1/200, 1/400)	1 to 1/500s (plus 1/75, 1/80, 1/90, 1/100, 1/200, 1/400)
Display Mode		Text mode, Spectrum mode, CRI mode, TM-30 mode, SSI mode, TLCI/TLMF mode, CIE1931 (CIE1964) mode, CIE1976 mode, Spectrum Comparison mode, CRI Comparison mode, CIE1931 (CIE1964) Comparison mode, CIE1976 Comparison mode	Text mode, Spectrum mode, Spectrum comparison mode, CRI mode, Camera filter mode, Lighting filter mode, Multi Lights Mode, White Balance Correction Mode	Text mode, Spectrum mode, Spectrum comparison mode, CRI mode, CRI comparison mode, TM-30 mode, SSI mode, TLCI/TLMF mode, Filter mode (Camera / Lighting), Multi Lights Mode, White Balance Correction Mode
Measuring Capability (Display Item)		Correlated Color Temperature (Tcp),Deviation (uv), Tristimulus value (XYZ / $X_{10}Y_{10}Z_{10}$), CIE1931/1964 (xyz / $x_{10}y_{10}z_{10}$), CIE1976 (u', v' / $u'_{10}v'_{10}$), Dominant wavelength (Λd), Excitation purity (Pe), Peak wavelength (Λp), Lux(lx) or Foot-Candle(fc) – ambient light, Lux Second(Hlx) or Foot-Candle Second(Hfc) – flash light, PPFD, TM-30 (Rf, Rg), SSI (Tungsten, Daylight, SSI1, SSI2), TLCI/TLMF, CRI (Ra, R1 to R15)	Correlated color temperature (CCT), Photographic color temperature (PCT), Deviation (Δ uv), LB/CC filter number (camera/gel), LB/CC index,Lux(lx) or Foot-Candle(fc) – ambient light, Lux Second(Hlx) or Foot-Candle Second(Hfc) – flash light, CRI (Ra, R1 to R15)	Correlated color temperature (CCT), Deviation (Δ uv), LB/CC filter number (camera/gel), LB/CC index, cc number, Lux(lx) or Foot-Candle(fc) – ambient light, Lux Second(Hlx) or Foot-Candle Second(Hfc) – flash light, CRI (Ra, R1 to R15), Rf, Rg, SSI (daylight, tungsten, selected light source), TLCI, TLMF, x, y, Hue, Saturation,
Other Functions		Up to 999 memory, Preset function, Auto power off, Auto dimmer, 2 or 10 deg. filed of view setting, Continuous/Single measurement selection	Digital/Film mode, Data memory: 99 data, Preset function, Auto power off, Auto dimmer	Data memory: 99 data, Preset function, Auto power off, Auto dimmer
Display languages		English, Japanese, Chinese (Simplified)	English, Japanese, Chinese (Simplified)	English, Japanese, Chinese (Simplified)
Interface		USB 2.0 (Mini B)	USB 2.0 (Mini B)	USB 2.0 (Mini B)
Operating Temperature		'-10 to 40 deg. C	'-10 to 40 deg. C	'-10 to 40 deg. C
Storage Temperature		'-10 to 60 deg. C	'-10 to 60 deg. C	'-10 to 60 deg. C
Dimensions		73mm (w) x 183mm (h) x 27mm (d) = 2.9" (w) x 7.2" (h) x 1.1" (d) (excluding protruding part of light receiving) max. thickness 40mm (d) = 1.6" (d)	73mm (w) x 183mm (h) x 27mm (d) = 2.9" (w) x 7.2" (h) x 1.1" (d) (excluding protruding part of light receiving) max. thickness 40mm (d) = 1.6" (d)	73mm (w) x 183mm (h) x 27mm (d) = 2.9" (w) x 7.2" (h) x 1.1" (d) (excluding protruding part of light receiving) max. thickness 40mm (d) = 1.6" (d)
Weight		230g = 8.1oz (without batteries)	238g = 8.4oz (without batteries)	230g = 8.1oz (without batteries)
Standard Accessory	Software/Utility	Yes (included in the package)	Yes (Downloaded from website)	Yes (Downloaded from website)
	Operating Manual	Yes (Downloaded from website)	Yes (Downloaded from website)	Yes (Downloaded from website)
	USB cable	Yes (included in the package)	No (optional)	No (optional)
	Start Up Guide	Yes (included in the package)	Yes (included in the package)	Yes (included in the package)
	Strap	Yes	Yes	Yes
	Synchro terminal cap	Yes (built-in)	Yes (built-in)	Yes (built-in)
	Soft case	Yes	Yes	Yes

Features and specifications are subject to change without notice.

5 Degree Viewfinder for L-478 Series:
For accurate, reflected light, spot measurements of specific subject areas. It is useful for distant objects such as landscapes or for metering subjects that generate light (neon signs, etc.), highly reflective surfaces or translucent subjects (stained glass, etc.).

Step-up ring for L-858D (30.5 - 40.5mm):
The step-up ring, available as an optional accessory, makes it possible to mount step rings and filters of other manufacturers. This simplifies the setting of exposure without the troublesome correction calculation of PL filters, etc. The step-up ring can also be used as a hood to protect lenses from scratching, soiling, etc.

Slide Set for L-398 Series:
A total of 11 slides are available, for direct reading of aperture on Foot-Candle scale in incident measurement.

Lumidisc for L-308 Series:
This flat diffuser can be attatched to the light recieving part of the L-308 series to measure flat subjects or lighting contrast with precision.

Synchro Cord:
This is a five-meter long cord with three plugs to connect with flash, light meter and camera. Cord has two male connectors and one female one. One of the male connectors has the lock function not to easily come off.

Exposure Profile Target II:
This is the test target used to create camera exposure profiles. One side consists of a central 18% gray patch that is surrounded by 25 patches arranged in 1/6th stop values, while the other side is 18% gray card for digital camera white balancing and spot metering.

Radio Transmitters RT-BR for L-858D
This transmitter module is compatible with 2.4GHz frequency for Broncolor radio systems, which are sold separately and require a receiver for each remote flash. Installing the transmitter module in the L-858D enables triggering an electronic flash units wirelessly, while simultaneuosly taking a measurement. It also allows you to control the power of flash output and turn modeling lamps ON or OFF.

Radio Transmitters RT-GX for L-858D
This transmitter module is compatible with 2.4GHz frequency for Godox radio systems, which are sold separately and require a receiver for each remote flash. Installing the transmitter module in the L-858D enables triggering an electronic flash units wirelessly, while simultaneuosly taking a measurement. It also allows you to control the power of flash output and modeling lamps.
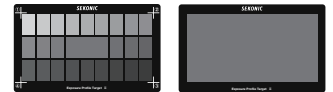
Radio Transmitter RT-EL/PX for L-858D
This transmitter module is compatible with 2.4GHz Elinchrom (EL-Skyport) and Phottix (Strato II protocol) radio systems, and require a receiver for each remote flash. Installing the transmitter module in the L-858D enables triggering the electronic flash units wirelessly. With EL-Skyport radio system, you can wirelessly control the power output of a flash and turn modeling lamps ON or OFF.

Radio Transmitter RT-20PW and RT-3PW for L-858D
These transmitter modules are compatible with either 344MHz FCC/IC (US and Canada) or 433MHz CE (Europe) frequency for PocketWizard radio systems, which are sold separately and require a receiver for each remote flash. Installing the transmitter module in the L-858D enables triggering an electronic flash units wirelessly while simultaneuosly taking a measurement. With the PocketWizard ControlTL system, you can wirelessly control the power output of a flash and turn modeling lamps ON or OFF.

Deluxe Case for L-478 Series:
The Deluxe Case for the L-478 series provides a stylish way to transport the meter and a convenient way to store the optional 5-degree viewfinder. Padded front and back panels provide excellent protection. Front pouch with hook-and-loop closure is provided to store the meter's optional 5-degree viewfinder or lumisphere when not in use.