

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

**SPEEDMASTER  
L-858D**

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:

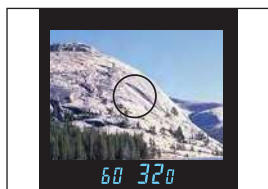
How do you know what the real flash exposure is when you're trying to overpower the sun with your flash set to HSS (High Speed Sync), what's the best flash duration speed to stop that bullet in mid-air, how do you know how much highlight or shadow details you are really getting in your digital exposures? 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.

# SPEEDMASTER L-858D

## 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.

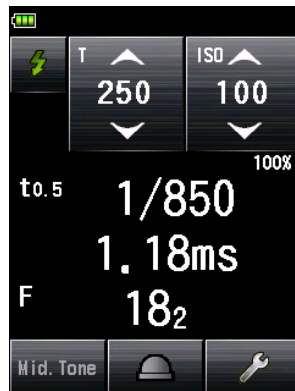
Flash duration: 1/250s



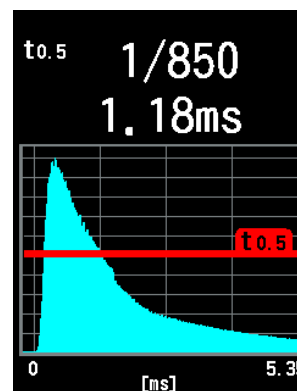
Flash duration: 1/17,800s



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.

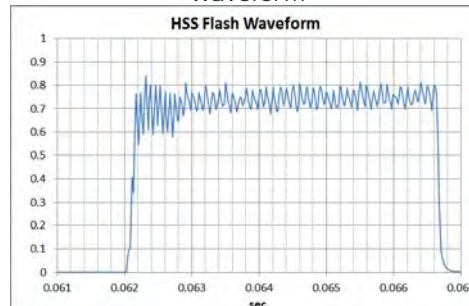
Normal Synch Flash



HSS Flash

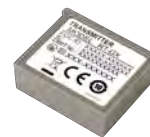


Typical HSS Flash  
Waveform



## 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-3PW	RT-EL/PX		RT-BR	RT-GX
Radio System	<b>PocketWizard</b>	<b>elinchrom</b> EL-Skyport	<b>Phottix</b>	<b>broncolor</b> RFS2.1	<b>godox</b>
Radio Frequency & Channels/ Studios	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 Channels
Zones/Groups	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	No (triggering only)	Yes	Yes
Modeling Lamp Control	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.**

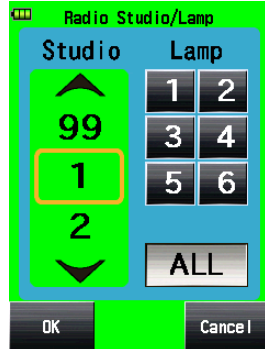
## Broncolor

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

Power Control Screen



Radio Studio/Lamp Setting Screen



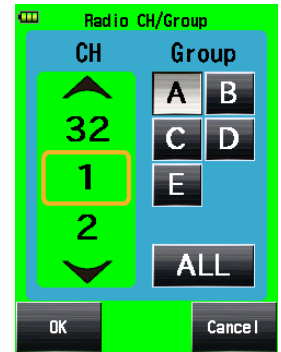
## Godox

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

Flash Control Screen



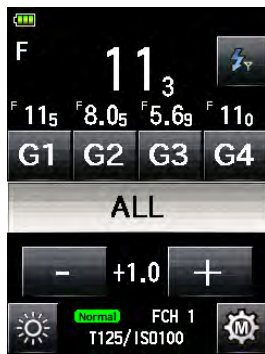
Radio CH/Group Setting Screen



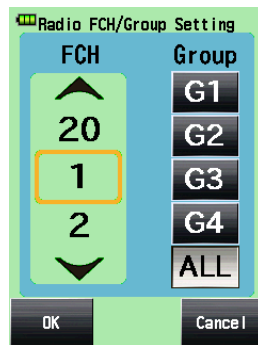
## Elinchrom

RT-EL/PX transmitter is compatible with EL-skyport radio system.

Flash Power Control Screen



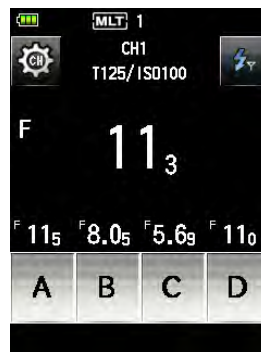
Radio CH/Group Setting Screen



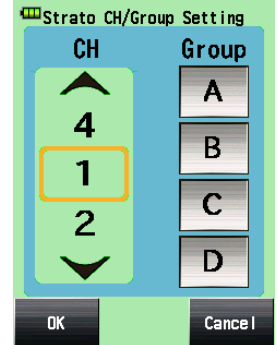
## Phottix

RT-EL/PX transmitter is compatible with Phottix Strato II protocol.

Flash Control Screen



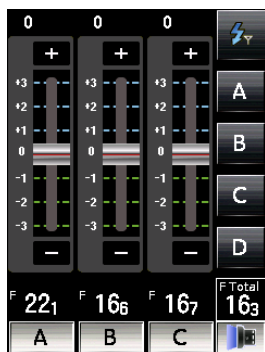
Radio CH/Group Setting Screen



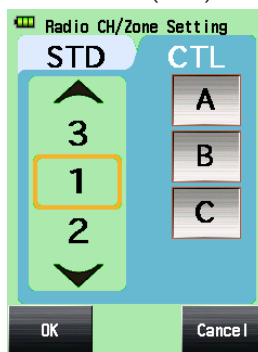
## PocketWizard

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)

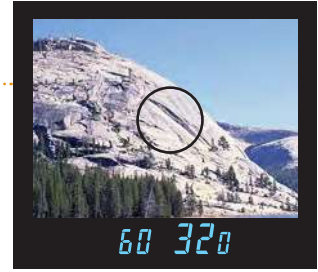


PocketWizard®

# 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.



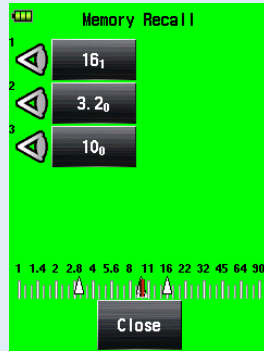
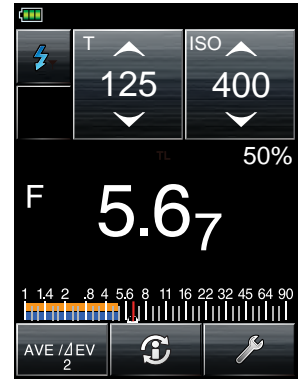
Flash 80%



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.

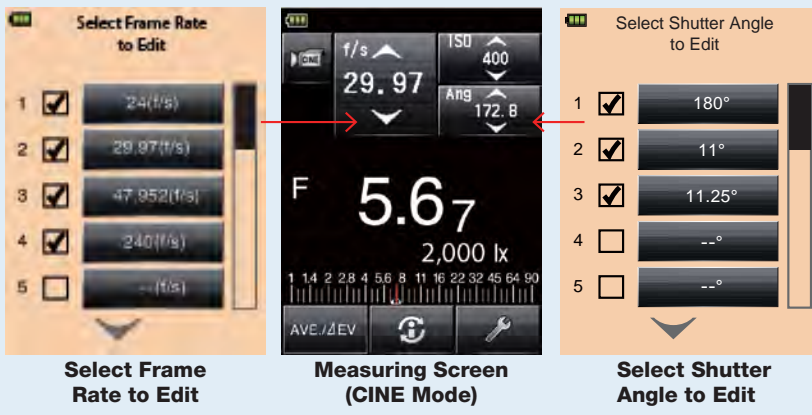
### Enhanced HD Cine / Cine Features

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

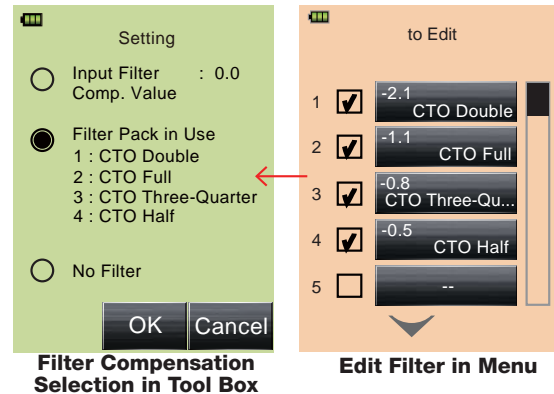


## Infinite Frame Rate/ Shutter Angle

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.



## Illuminance or Luminance Measurement

Brightness measurements in Lux or FC (Foot Candles) and Cd/m<sup>2</sup> 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.

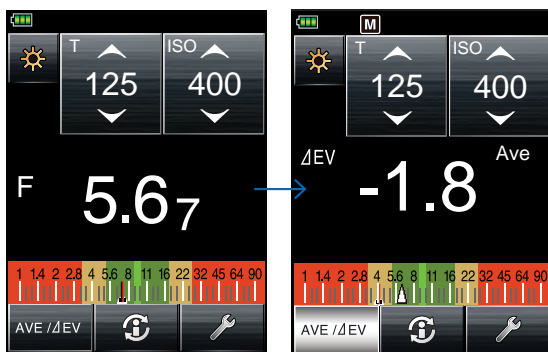


Brightness along with exposure

Brightness alone (Lux mode)

## 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 characteristics.

- ✓ 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 PocketWizard 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



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



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



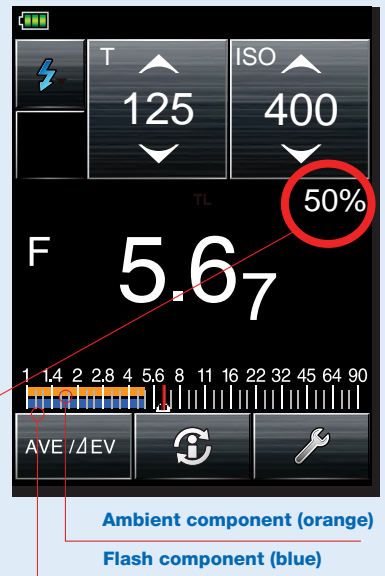
The L-478DR-PX flash control screen allows selection of a single group or a combination of groups for flash brightness measurement. The F-number value for the light being measured appears in a central area on the screen as well as over respective group selection button. The measured value for each group 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.



# LITEMASTER PRO L-478 Series

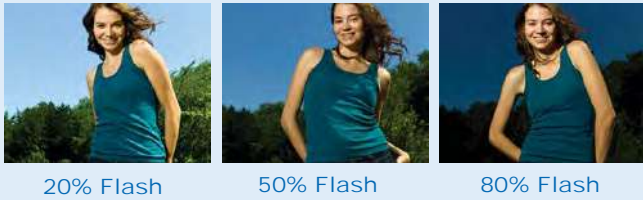
## Flash Analyzing Function

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.



Percentage of flash

Ambient component (orange)  
Flash component (blue)



## Enhanced HD Cine / Cine Features

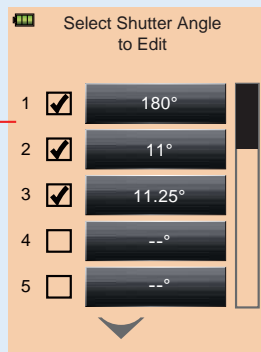
Today's digital cameras offer both still and motion capture. Offering shooters seamless cross platform media capabilities, these cameras provide a variety of uses in a single production. To complement this sophisticated cameras, the L-478 series has two motion capture modes in addition to still capture to 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



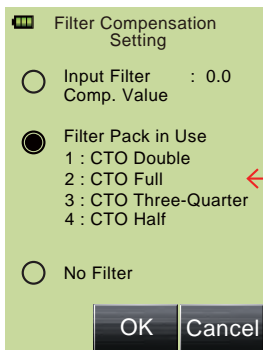
Shutter Angle  
Frame Rate

HD CINE Mode CINE Mode

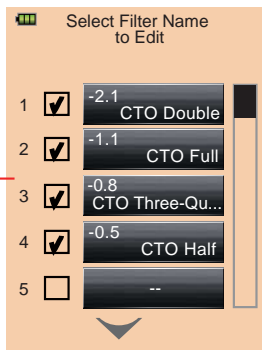


## Infinite Frame Rate/ Shutter Angle

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 customized values to enable precise exposure and lighting, producing the very best images and reducing time in post-production.



Filter Compensation Selection in Tool Box



Select Filter Name to Edit in Menu

## 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.



## 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.

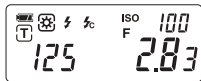


### Three Meters in One

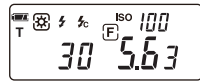
Whether your shooting assignment is capturing images at a wedding, producing short training videos for a local business or producing a cinematographic documentary, the FLASHMATE L-308X accommodates your lighting challenge with accurate and comprehensive measurements that put the image maker in control.

#### PHOTO Mode:

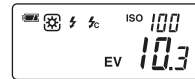
The FLASHMATE L-308X offers full exposure control for photographer's on-location or in the studio. In addition to Shutter Priority Mode, the NEW Aperture Priority Mode offers the carefree depth-of-field control provided on most DSLR's. In addition, a range of ambient and flash functions including Cord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



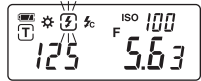
Shutter Speed Priority Mode



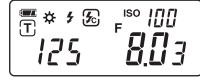
Aperture Priority Mode



EV Mode



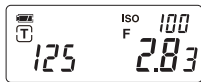
Cordless Flash Mode



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



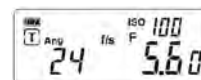
Frame Rate Setting



Simplified Illuminance Mode

#### 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.



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 its 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 ISO indicator 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

**TWINMATE  
L-208**

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.

# SPECIFICATIONS SHEET



Product Name and Model		L-858D		L-478DR series	
Measuring System	Incident light	Swivel head	Horizontal (270 degrees)		Horizontal (270 degrees)
	Reflected light	Lumidisc	Retractable		Retractable
		Switching incident/reflected	Operation on LCD		Removable
Measuring Mode	Ambient light	Light receiving angle	1° (Built-in)		VF 5° (Optional VF)
		T priority	Yes		Yes
		F priority	Yes		Yes
		TF priority	Yes		Yes
		HD_CINE (T priority)	Yes		Yes
		CINE (f/s priority)	Yes		Yes
	Flash light	Lux/FC	Yes		Yes (w/Optional VF)
		Cd/m <sup>2</sup> /FL	Yes		Yes (w/Optional VF)
		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 <sup>2</sup>	0.1 to 980,000 cd/m <sup>2</sup>	1.0 to 980,000 cd/m <sup>2</sup>
			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
	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 resistance			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°)
		Lumisphere		Yes	Yes
Lumidisc			Yes (same as Lumisphere)	Yes (same as Lumisphere)	
Lumigrd			No	No	
Deluxe case			No	Yes	
Synchro cord			Yes	Yes	
Radio transmitter			Yes (Broncolor, Elinchrom, Godox, Pottix 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° (Lumigrad)	33° (Lumigrad)
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 <sup>2</sup>	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 memory 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	No
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°C	0 to 40°C	0 to 40°C
-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 x 1(CR2032 battery)
130g	80g	190g	40g
57 x 140 x 26	63 x 110 x 22	58 x 112 x 34	45 x 65 x 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	No
No	No	Yes	No
Yes	No	Yes	No
Yes	Yes	No	No
No	No	No	No
No	No	No	No
Yes	No	No	No

# 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 Spectrometer 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 Spectrometer C-700 series, the New Spectrometer 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 Spectrometer 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)

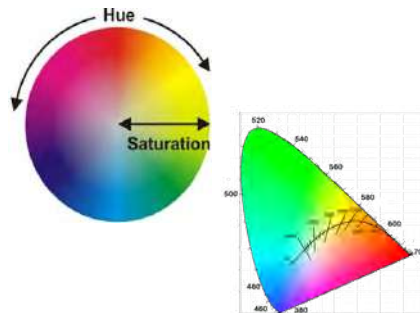
- ✓ Measures Color Temperature (K)
- ✓ Provides Color Compensation Data
- ✓ Provides Light Quality Information such as CRI, TM-30, SSI, TLCI/TLMF, and Spectrum distribution graph

## 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 Spectrometer 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

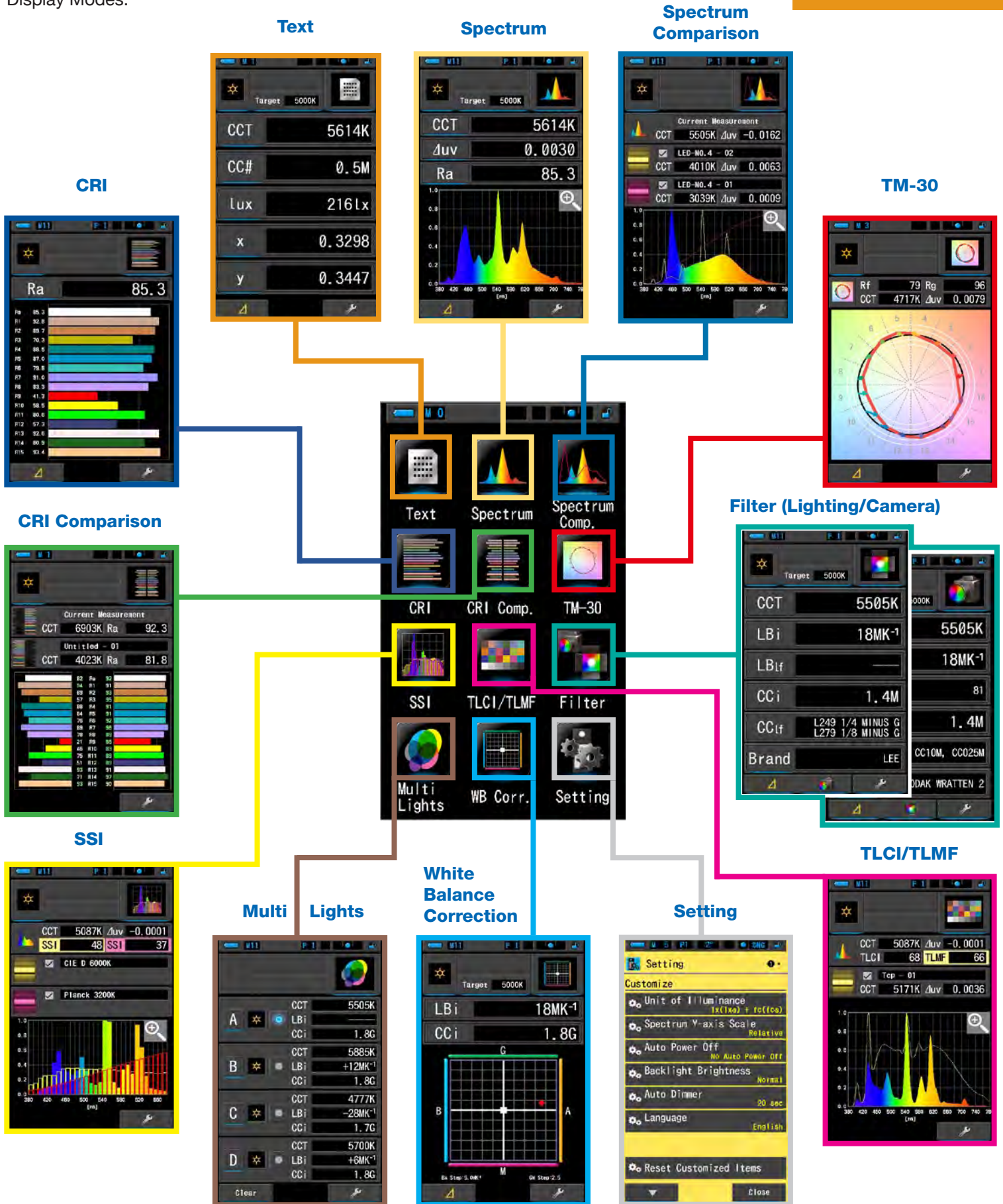


Expanded color rendering properties such as SSI (Spectral Similarity Index), TLCI (Television Lighting Consistency Index), TLMF (Television Luminaire Matching Factor) and TM-30 (Technical Memorandum) on top of CRI (Color Rendering Index).

# Various Display Modes with Intuitive Color Touch Screen

# SPECTROMETER C-800

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.



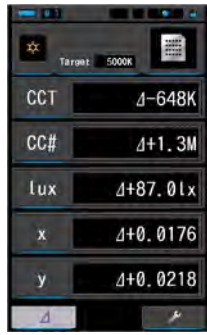




## Other Functions



Pic 1



Pic 2



Pic 3



Pic 4

- ✓ 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 manganese 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

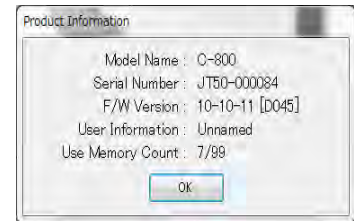
## C-800 Series Utility Software

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)



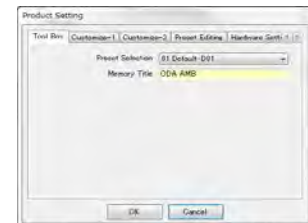
Main Screen



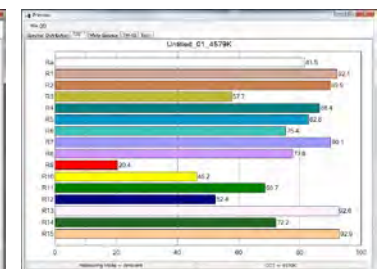
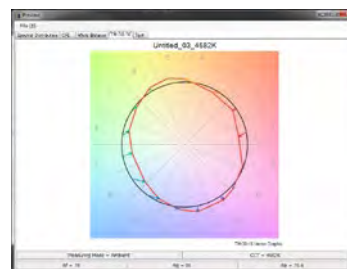
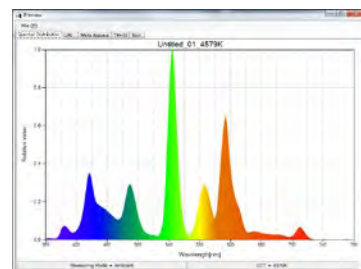
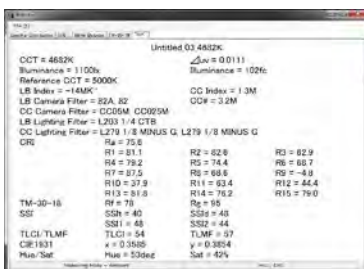
Product Information



Update Screen



Product Setting



Memory Data Preview

# SPECTROMETER 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 C-7000.

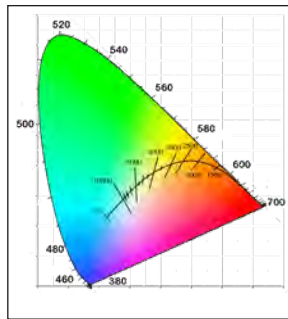
The Spectrometer C-7000 is a portable handheld spectrometer, designed especially for industrial use. Utilizing Sekonic's CMOS linear image sensor design and software, the C-7000 can measure every light source (LED, HMI, Fluorescent, Flash, Natural Light spectrum) with remarkable precision and data feedback. 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.



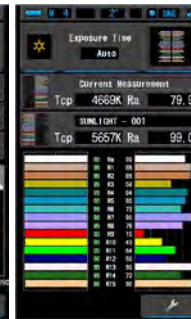
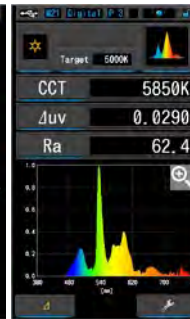
## Ultimate Tool for Color Control



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)

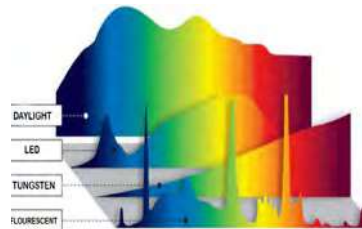


Intuitive color touch screens offer easy navigation through Spectral distribution, lighting comparisons, CRI color data and more

### Precise Measurement

Measures LED, HMI, Fluorescent, Tungsten, Natural Light and Flash in 1 nanometer (nm) output wavelength 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

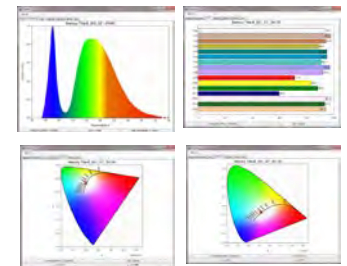
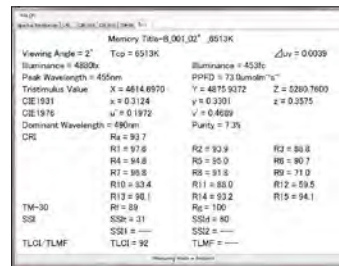
### KEY New Features

- ✓ TM-30, TLCI/TLMF, SSI, CRI comparison
- ✓ Continuous/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.

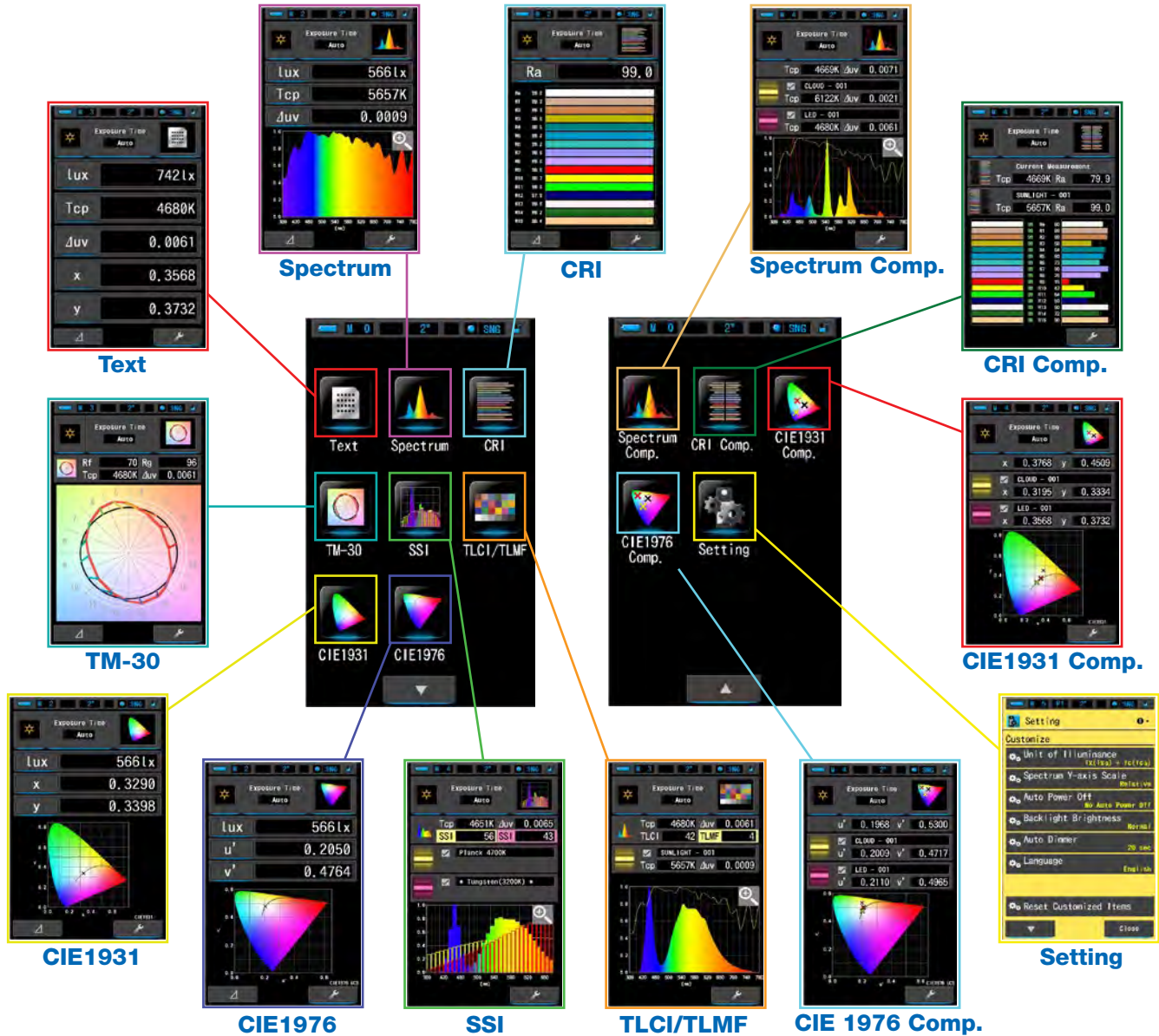


### Wide Measuring Range of Color Temperature and Illuminance

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.



## Various Display Items

- ✓ Correlated color temperature (TcP)
- ✓ Deviation ( $\Delta uv$ )
- ✓ 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 ( $\lambda d$ )
- ✓ Excitation Purity (Pe)
- ✓ Peak Wavelength ( $\lambda p$ )
- ✓ Lux(lx) or Foot-Candle(fc) – ambient light
- ✓ Lux sec. (Hlx) or Foot-Candle sec. (Hfc) – flash light
- ✓ PPF: Photosynthetic Photon Flux Density ( $\mu mol/m^2 \cdot s$ )
- ✓ TM-30 (Rf, Rg)
- ✓ SSI (Tungsten, Daylight, SSI1, SSI2)
- ✓ TLCI/TLMF
- ✓ CRI (Ra / R1 to R15)



Display Items Library

# SPECIFICATIONS SHEET



Product Name and Model		C-7000		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"	
Sensor		CMOS linear image sensor		CMOS linear image sensor	
Spectral Wavelength Range		380nm to 780nm		380nm to 780nm	
Output Wavelength Pitch		1nm (Requires the C-7000 Utility to output memorized data)		N/A	
Spectral Bandwidth		Approx. 11nm (half bandwidth)		Approx. 11nm (half bandwidth)	
Measuring Mode	Ambient light:	Yes		Yes	
	Cord flash	Yes		Yes	
	Cordless flash	Yes		Yes	
	Radio triggering	No		No	
Measuring Range	Incident light	Ambient light:	1 to 200,000lx (3 significant digits)	1 to 200,000lx (3 significant digits)	
			0.09 to 18,600fc	0.09 to 18,600fc	
			1,563 to 100,000K (more than 5lx required)	1,600 to 40,000K (more than 5lx required)	
	Flash Light:		20 to 20,500lx*s	20 to 20,500lx*s	
			1.86 to 1,900 fc*s	1.86 to 1,900 fc*s	
			2,500 to 100,000K	2,500 to 40,000K	
Reflected light	Ambient light:	N/A	N/A		
	Flash Light:	N/A	N/A		
Accuracy (Standard Illuminant A)		Illuminance: $\pm 5\% \pm 1$ digit (1 to 2,990lx), $\pm 7.5\% \pm 1$ digit (3,000 to 200,000lx) x,y: 0.003 (Standard Illuminant A, 800lx)		Illuminance: $\pm 5\% \pm 1$ digit (1 to 2,990lx), $\pm 7.5\% \pm 1$ digit (3,000 to 200,000lx) CCT: $\pm 4MK^{-1}$ (Standard Illuminant A, 800lx)	
Repeatability (Standard Illuminant A)		Illuminance: 1% + 1 digit (30 to 200,000lx), 5% + 1 digit (1 to 29.9lx) x,y: 0.001 (500 to 200,000lx) x,y: 0.002 (100 to 499lx) x,y: 0.004 (30 to 99.9lx) x,y: 0.008 (5 to 29.9lx)		Illuminance: 1% + 1 digit (30 to 200,000lx), 5% + 1 digit (1 to 29.9lx) CCT: $2MK^{-1}$ (500 to 200,000 lx) CCT: $4MK^{-1}$ (100 to 499 lx) CCT: $8MK^{-1}$ (30 to 99.9 lx) CCT: $17MK^{-1}$ (5 to 29.9 lx)	
Visible-region Relative Spectral Response Characteristics		Within 9%		Within 9%	
Cosine Response (f2)		Within 6%		Within 6%	
Temperature Drift (fT) (Standard Illuminant A 1,000lx)		Illuminance: $\pm 5\%$ of indicated value x,y: $\pm 0.006$		Illuminance: $\pm 5\%$ of indicated value CCT: $\pm 12MK^{-1}$	
Humidity Drift (fH) (Standard Illuminant A 1,000lx)		Illuminance: $\pm 3\%$ of indicated value x,y: $\pm 0.006$		Illuminance: $\pm 3\%$ of indicated value CCT: $\pm 12MK^{-1}$	
Power Source		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. Manual - 0.1s, 1sec.		Auto - Max.: 15 sec., Min.: 0.5 sec. N/A	
	Flash Light:	1s to 1/500s (in 1 step)		1s to 1/500s (plus 1/75, 1/80, 1/90, 1/100, 1/200, 1/400) (in 1, 1/2, 1/3 step)	
Display Mode		Text mode, Spectrum mode, CRI mode, TM-30 mode, SSI mode, TLCl/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, CRI comparison mode, TM-30 mode, SSI mode, TLCl/TLMF mode, Filter mode (Camera / Lighting), Multi Lights Mode, White Balance Correction Mode	
Measuring Capability (Display Item)		Correlated Color Temperature (Tcp), Deviation ( $\Delta uv$ ), 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 ( $\lambda_d$ ), Excitation purity (Pe), Peak wavelength ( $\lambda_p$ ), 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), TLCl/TLMF, CRI (Ra, R1 to R15)		Correlated color temperature (CCT), Deviation ( $\Delta uv$ ), 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), TLCl, 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		Up to 99 memory, Preset function, Auto power off, Auto dimmer	
Display languages		English, Japanese, Chinese (Simplified)		English, Japanese, Chinese (Simplified)	
Interface		USB 2.0 (Mini B)		USB 2.0 (Mini B)	
Operating Temperature		-10 to 40 deg. C		-10 to 40 deg. C	
Storage Temperature		-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)	
Weight		230g = 8.1oz (without batteries)		230g = 8.1oz (without batteries)	
Standard Accessory	Software/Utility	Yes (included in the package)		Yes (Downloaded from website)	
	Operating Manual	Yes (Downloaded from website)		Yes (Downloaded from website)	
	USB cable	Yes (included in the package)		No (optional)	
	Start Up Guide	Yes (included in the package)		Yes (included in the package)	
	Strap	Yes		Yes	
	Synchro terminal cap	Yes (built-in)		Yes (built-in)	
Soft case		Yes		Yes	

Features and specifications are subject to change without notice.

## Lumidisc for L-308 Series:

This flat diffuser can be attached to the light receiving part of the L-308 series to measure flat subjects or lighting contrast with precision.

## 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.

## 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.).

## 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.



## 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.



## Radio Transmitters RT-BR for L-858D

This transmitter module is compatible with 2.4GHz frequency for Broncolor radio systems, which is sold separately and requires a receiver for each remote flash. Installing the transmitter module in the L-858D enables triggering an electronic flash units wirelessly, while simultaneously 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 is sold separately and requires a receiver for each remote flash. Installing the transmitter module in the L-858D enables triggering an electronic flash units wirelessly, while simultaneously 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-3PW for L-858D

This transmitter module is compatible with 433MHz CE (Europe) frequency for PocketWizard radio systems, which is sold separately and requires a receiver for each remote flash. Installing the transmitter module in the L-858D enables triggering an electronic flash units wirelessly while simultaneously 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.



## 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.

