

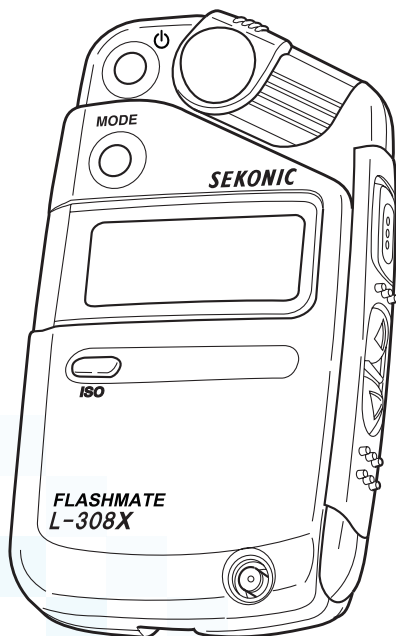
# **SEKONIC** Light Meter

## **FLASHMATE**

**L-308X**

**L-308X-U**






**Operating Manual**



Thank you for purchasing our product.  
Please read this operating manual so that you will fully understand the features and operation of this product. Then keep the operating manual in a safe place for future use.  
Please see the Startup Guide for information about the basic operations.

## ■ Safety Precautions

Before using this product, please read this "Safety Precautions" for proper operation.

 <b>WARNING</b>	The WARNING symbol indicates the possibility of death or serious injury if the product is not used properly.
 <b>CAUTION</b>	The CAUTION symbol indicates the possibility of minor to moderate personal injury or product damage if the product is not used properly.
 <b>NOTICE</b>	The NOTICE symbol indicates cautions or restrictions when using the product. Please read all notes to avoid errors in operation.
 <b>NOTE</b>	The NOTE symbol indicates the reference information and related functions. We recommend that you read these notes.
	The arrow indicates reference pages.



## WARNING

- Infants or toddlers may accidentally wrap the strap around their neck, so please place it in a location out of their reach. There is a danger of suffocation.
- Keep the Lumidisc and synchro terminal cap out of reach of Infants or toddlers, as swallowing such objects can cause suffocation.
- Do not place batteries in open flames, attempt to short, disassemble or apply heat to them, use unspecified batteries, or recharge them. They may burst and cause fires, serious injury, or damage to the environment.

### Polyvinyl Chloride (PVC) cable and cord notice

- Handling the cord on this product or cords associated with accessories sold with this product will expose you to lead, a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling.



## CAUTION

- Do not handle this product with wet hands, or leave it in the rain or in a location where it may be splashed with water, submerged, or come into contact with moisture. There is a danger of electric shock if the "Cord Flash Mode" is used. This may also result in damage to the product.
- Do not under any circumstances remodel or disassemble this product for modification or part replacement purposes. Refer any servicing to qualified and authorized personnel if the product has malfunctioned. Otherwise, measuring results may be affected and/or the product may be damaged.
- Infants or toddlers may accidentally grab the strap and swing the product, so please place it in a location out of their reach, as the meter may be damaged by impacts.
- Be careful that the neck strap does not come loose when carrying the product, as the meter may be damaged when dropped.
- This neck strap is made of polyester fiber.  
Please refrain from using the product if synthetic fibers cause your skin to become irritated, inflamed or itchy in order to prevent worsening your symptoms.

 **NOTICE**

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- The reproduction of all or any part of this document without permission is strictly forbidden.
- The product concerned and/or this manual may be subject to changes without prior notification.
- The screens in this operating manual may differ from the actual displays of the meter you are using. (Colors, letters, etc.)
- Be sure not to drop the meter or subject it to sudden impacts, as the meter will be damaged.
- Do not store the meter in areas of high temperature or high humidity, as the meter will be damaged.
- Be careful not to transport the meter from cold to warm moist conditions as condensation will form on the meter and may damage it.
- If the meter is operated in temperatures below  $-10^{\circ}\text{C}$ , the response of the LCD will greatly slow down and the display may be difficult to view and read. This will not harm the meter. Also, if the temperature exceeds  $50^{\circ}\text{C}$ , the liquid crystal display will darken and become difficult to read, but when it returns to room temperature it will return to its normal condition.
- If the meter is left in direct sunlight, a vehicle, or near a heater, the unit's temperature will rise and may result in damage. Please be careful when using the meter in these types of locations.
- Remove battery if meter is not used for an extended period. Batteries can leak and damage the exposure meter.
- Do not use the meter in Cord Flash Mode at altitudes above 2,000m (6,561 feet).
- If the meter is left where corrosive gases may be generated, the gases may affect the product and may result in damage. Please be careful when using the meter in these types of locations.
- In case of disposing the meter, follow the rules of disposal in your area.

## Maintenance Notes

- Be careful not to let the Light Receptor become dusty, dirty, or scratched as this may affect the precision of the measurement.
  - If the meter becomes dirty, wipe it with a dry, soft cloth. Never use organic solvents such as thinner or benzine.
- 

 **NOTE**

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- For used batteries, dispose of them according to the rules of your area.
  - Insulate plus and minus terminals with tape or other insulation material.
-

## ■ Intended Usage

The meter is designed for:

- Measurement of artificial light sources or natural light for photo, video, or movie.

## ■ Features of the L-308X

Model with incident light and reflected light systems.

Digital light meter for flash and ambient light.

Enhancement of video/cine function.

## ■ Intended Users

The intended users of this product are the following.

Those working in the areas of photography, filming, etc. such as photographers, videographers, and movie camera operators, gaffers, and cinematographers.

## ■ Restrictions

There are some cautions and restrictions regarding the use of this product.

Please read and understand the following before using the meter.



- The contents of this manual may be subject to change for the product' s specification modifications and other reasons without prior notice.  
We recommend that you download the latest operating manual from our website and use this product.  
URL : [www.sekonic.com/support/instructionmanualuserguidedownload.aspx](http://www.sekonic.com/support/instructionmanualuserguidedownload.aspx)
  - The safety-related precautions such as "Safety Guide and Maintenance" and "Safety Precautions" conform to the legal and industry standards that were applicable at the time this operating manual was created. Therefore, this manual may not contain the latest information. If you are using the previous operating manual, please download and refer to the latest operating manual.
  - The product may contain printing materials such as cautions related to safety and/or printing errors as a supplement to the operating manual.
  - Before using this product, please read this "Safety Precautions" for proper operation.
  - The contents of this operating manual may be reproduced for non-commercial purposes and for personal use only. However, the reproduced material must contain the copyright notice of our company.
  - The screens in this operating manual may differ from the actual displays of the meter you are using. (Colors, letters, etc.)
-

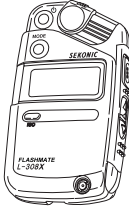
## ■ Accompanying Accessories

The following items are included with the meter in the package. Please be sure to check that all noted items are included.

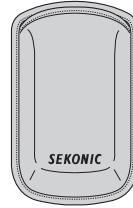
If any items are missing, please contact the distributor or the reseller you purchased the meter from.

\* Battery (one AA) are not included in the package. Please obtain these separately.

Meter



Soft Case



Synchro Terminal Cap  
(Installed on the meter)



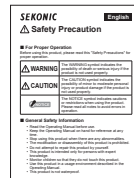
Strap





Startup Guide



Safety Precaution



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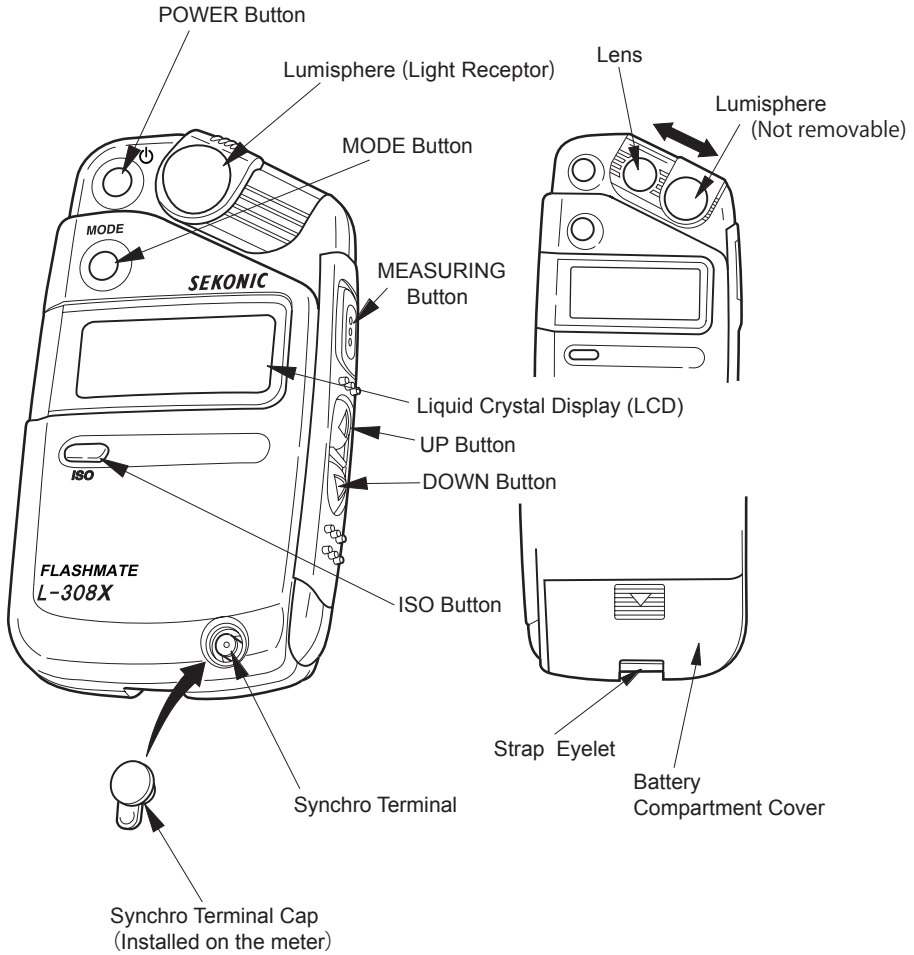


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# 1. Parts Designation

1-1

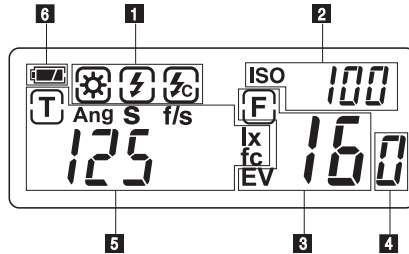
## Parts Designation



## 2. Explanation of the Liquid Crystal Display (LCD)

### 2-1 Contents of Display

For explanation purposes, the display illustrated here shows icons and readouts simultaneously. Actual display will never appear like this.



#### 1 Measuring Mode icons (for PHOTO Mode only)



Ambient ( → P14)



Cordless Flash ( → P18)



Cord Flash ( → P20)

#### 2 ISO Display ( → P13)

**ISO** Displays ISO sensitivity setting.

#### 3 Aperture Priority, EV Value Display



Appears when Aperture Priority (F) Mode. ( → P15)

**EV** Appears when using EV Mode. ( → P16)

#### 4 0.1 step display

Depending on set mode, this displays measurement value at 1/10 aperture or 1/10 EV.

#### 5 Shutter speed, frames rate (f/s), shutter angle and Illuminance.



Appears when Shutter Speed Priority (T) Mode. ( → P14, → P22)

**S** Appears when shutter speed is in full seconds. ( → P14, → P22)

**f/s** Appears when cine speed is set in frames per seconds.  
( → P23, → P25)

**Ang** Appears when shutter angle is set to a value other than 180 degrees  
(CINE Mode only. → P26)

**lx** Appears when Lux is selected (Selectable in Custom setting)  
( → P24, → P27)

**fc** Appears when FC is selected (Selectable in Custom setting)  
( → P24, → P27)

**6** Battery Power Indicator ( → P7)**Backlight LCD**

If the lighting condition is dark (under EV5), the LCD screen will automatically illuminate after measurement with sensing the brightness.

While measuring or stand-by in Cordless flash mode, the LCD screen will not illuminate to avoid interference with the measurement.

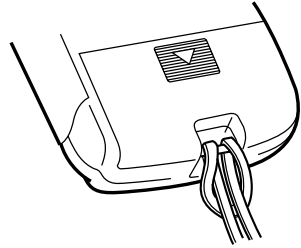
The LCD backlight will automatically turn off in 10 seconds after last operation.

If it is necessary to illuminate the LCD backlight, cover the light receptor by hand and press the ISO Button to turn it on.

# 3. Before Use

## 3-1 Attaching the Strap

1. Pass the strap (included) through the outer hole of the Strap Eyelet.
2. Pass the opposite end of the strap through the loop at the end of the strap.



### WARNING

- Infants or toddlers may accidentally wrap the strap around their neck, so please place it in a location out of their reach. There is a danger of suffocation.

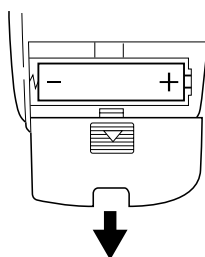


### CAUTION

- Infants or toddlers may accidentally grab the strap and swing the product, so please place it in a location out of their reach, as the meter may be damaged by impacts.
- Be careful not to let the strap become entangled when carrying the meter. Otherwise, the meter may be damaged due to an impact shock that may occur when the meter is dropped, etc.
- This strap is made of polyester fiber. The synthetic fabric has caused skin irritation, redness, or itching. If you experience this, discontinue using strap.

## 3-2 Inserting the Batteries

1. Prepare a single AA battery.
2. Slide down the battery compartment cover in the direction of the arrow to remove.
3. Insert the battery observing the polarity with the +, - marks in the battery compartment.
4. Align battery compartment cover with main unit and slide shut.



Make sure that the cover is properly in place and closed.



### WARNING

- Never place batteries in fire, short, disassemble, heat or charge them. The batteries might break down, and cause an accident, injury or pollute the environment.



### CAUTION

- Use the manganese or alkaline batteries.
- Please insert the battery minus “-” side first. When removing the battery, remove them plus “+” side first.
- If the meter will not be used for an extended period of time, it is recommended to remove the batteries to avoid possible damage caused by battery leaking.

## 3-3 Power ON/OFF

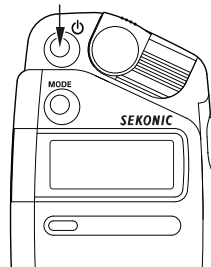
### Power ON

Press the **POWER** Button.

### Power OFF

Press and hold the **POWER** Button in for **1 second or longer** and the meter will turn off.

POWER Button



### NOTICE

- Please wait 3 seconds between repeated power on and off sessions.

### NOTE

- If the LCD screen shows no display, check if the batteries are installed properly (Pos/Neg positioning) and have enough capacity.
- All settings and measurements made during use are saved in memory even after the meter is powered off.

## 3-4 Auto Power OFF Function

To save battery capacity, the meter will automatically turn off 4 minutes after the last button is pressed.

### NOTE

- All settings and measurements are saved in memory even after the meter has automatically turned off. When the power is turned ON, they will be displayed again.
- If, while in transport, the **POWER** Button is inadvertently and continually pressed in, the meter will turn ON for about 1 minute and then automatically turn OFF to save battery power.

## 3-5 Checking the Battery Capacity

When the meter is turned ON, the battery power indicator on the LCD is displayed.



(Displayed) Battery power level is good.



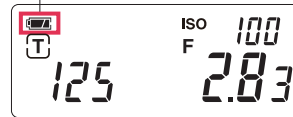
(Displayed) Battery power level is low. Have a spare battery ready.



(Blinking) Replace battery immediately.

### [Liquid Crystal Display]

Battery capacity indicator



### NOTE

- When the meter is turned ON and the LCD screen appears and immediately turns off, this indicates that the battery is depleted and should be replaced immediately. Having spare batteries on hand is recommended.
- When the meter is continuously used at room temperature, the battery life is as follows. (based on our testing condition)  
Manganese: 10 hours  
Alkaline: 20 hours

## 3-6 Replacing Batteries

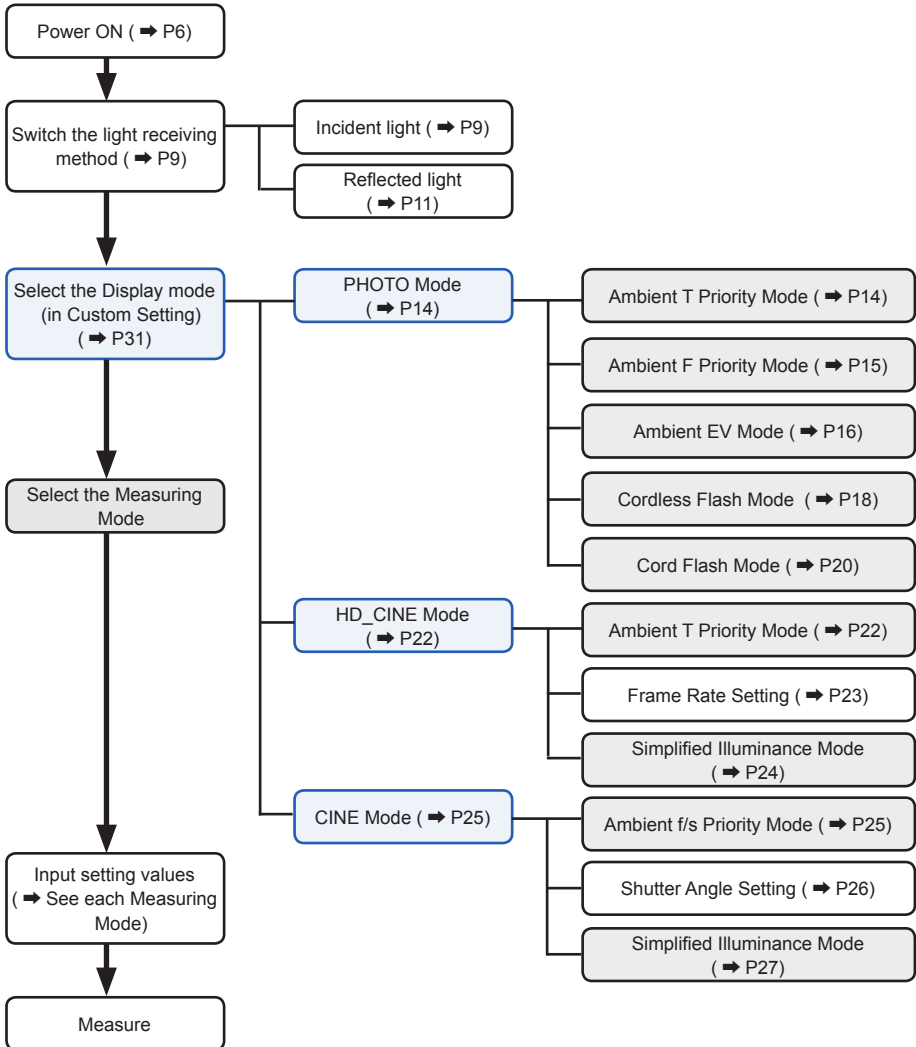
- Always turn off the power before replacing batteries.  
If you replace batteries while the power is turned on, the measured values that are obtained during operations are not saved. Also, this may cause a failure.
- If an unexpected display appears on the LCD during battery replacement or measurement, i.e. settings other than selected, or if the meter does not respond when a button is pressed, remove the batteries, wait at least 10 seconds, and then re-install them.



# 4. Basic Operation

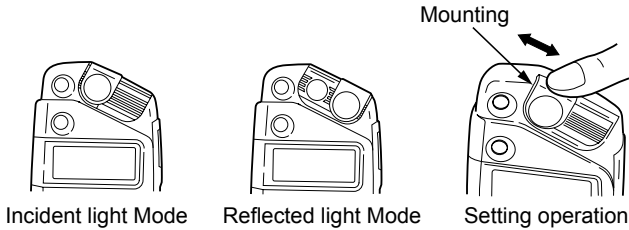
## 4-1

## Basic Measurement Workflow



## 4-2 Incident and Reflected Light Measurement

To set for either incident or reflected light operation, slide the Lumisphere mounting until it clicks.

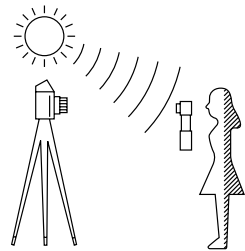


### NOTICE

- Always use the Lumisphere mounting for setting. Hand operation of the Lumisphere may cause damage. (Lumisphere and mounting can not be removed.)
- The Lumisphere is an important light receiving unit. Please handle with care and try not to mark or soil. Wipe Lumisphere with a dry soft cloth if it becomes dirty. Never use organic cleaners (like thinner or benzene) to clean Lumisphere.

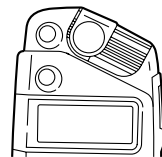
### 4-2-1 Incident Light System

The incident light system measures the light that is falling on the subject using the Lumisphere or Lumidisc. Point the Lumisphere at the camera lens (lens optical axis) from a location close to the subject, then make a measurement.



#### 1) Using Lumisphere

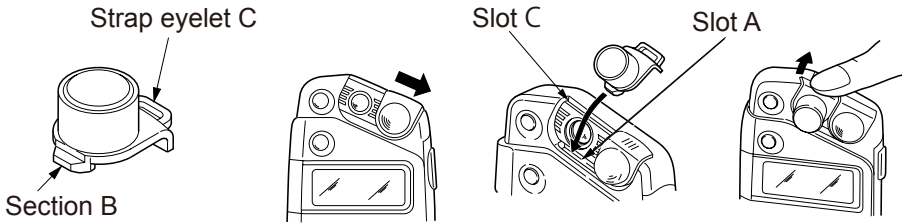
Lumisphere is used to measure the light that illuminates people and buildings and other three-dimensional objects. Measurements are made at the subject position aimed in the direction of the camera lens.



Incident light Mode

## 2) Using Lumidisc (Optional Accessory)

The Lumidisc is used to measure the light falling on green-screen walls, paintings or flat art. It is also used to adjust lighting ratios with multiple light sources ( ➔ P28) or when taking Lux and Footcandle measurements ( ➔ P24, ➔ P27). To measure light with the Lumidisc, slide the Lumisphere mounting to the right (same as if measuring reflected light), then insert, at an angle, section B of the Lumidisc into slot A of the meter body and press down on the strap eyelet C to secure the Lumidisc.



### Lumidisc

The Lumidisc is removed in reverse order to the mounting method.

At this time the strap eyelet of the Lumidisc should be pulled up and away from the meter body.



## WARNING

- Keep the Lumidisc (Optional Accessory) out of reach of Infants or toddlers, as swallowing such objects can cause suffocation.



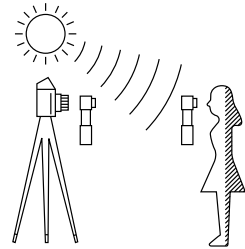
## NOTICE

- Be sure to handle the Lumidisc correctly to prevent damage that may occur if mounting or removal is incorrect.
- When the Lumidisc is not being used, do not attach it at the right of the Lumisphere for storage. This will block light falling on the Lumisphere and affect the accuracy of the measurement.
- The Lumidisc is an important light receiving unit. Please handle with care and try not to mark or soil. Wipe Lumidisc with a dry soft cloth if it becomes dirty. Never use organic cleaners (like thinner or benzene) to clean Lumisphere.

## 4-2-2 Reflected Light System

Switch the light receiving method to the reflected light system to make a measurement. The reflected light system measures the brightness (luminance) of the light reflected from the subject. It is useful to meter distant objects such as landscapes, if you cannot go to the location of the subject, or to meter subjects that generate light (neon signs, etc.), highly reflective surfaces, or translucent subjects (stained glass, etc.).

To take a reflected-light measurement, hold the meter in front of the camera and point the metering lens toward the part of the subject you want to measure. If the subject area is small, you may have to move the meter closer to the subject to measure it properly.



### NOTICE

- As the reflected-light lens has a 40-degree view, measurements made from the camera position will often result in an average of all subject tones.
- To measure only part of the object, move the meter as close as possible to the part of the subject you want to measure. Take care to position the meter so that it does not cast a shadow onto the part of the subject you want to measure.
- The lens is an important light receiving unit. Do not touch the lens or allow it to become dirty. Wipe the meter lens with a dry soft cloth if it becomes dirty. Never use organic cleaners (like thinner or benzene) to clean the meter lens.

## 4-3 Select Display Mode

Select the Display Mode to fit your camera in custom setting. (➔ P31)

PHOTO

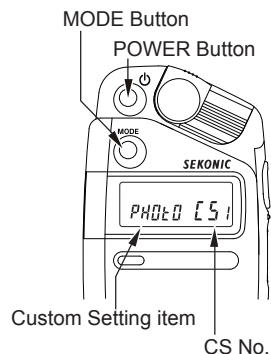
PHOTO Mode  
(Default setting)

HD\_C

HD\_CINE Mode

CINE

CINE Mode



## 4-4

## Select Measuring Mode

The following Measuring modes in each Display Mode are available.

Press the MODE Button to select the Measuring Mode. ( ➔ P8)

**PHOTO Mode:**

- Shutter Speed Priority Mode (Ambient mode)
- Aperture Priority Mode (Ambient mode)
- EV mode (Ambient mode)
- Cordless Flash Mode  
(Shutter Speed Priority)
- Cord Flash Mode (Shutter Speed Priority)

**HD\_CINE Mode: (Ambient light only)**

- Shutter Speed Priority Mode
- Frame Rate Setting Mode
- Simplified Illuminance Mode (Selectable in Custom setting)

**CINE Mode: (Ambient light only)**

- Frame Rate Priority Mode
- Shutter Angle Setting Mode
- Simplified Illuminance Mode (Selectable in Custom Setting)



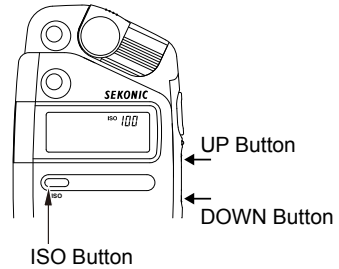
**NOTE**

- Hold ISO Button and press MODE Button to return to the previous Measuring Mode.
- Ambient light refers to continuous light like natural light (sunlight), tungsten lamps or fluorescent lamps.
- Flash light is a brief, intense burst of light made by electronic flash units or flash bulbs.

## 4-5 Setting ISO Sensitivity

Hold down the ISO Button and press either the UP Button or DOWN Button to select ISO sensitivity being used.

You can also change the ISO sensitivity after taking measurements. The new value is automatically displayed.



### NOTE

- Setting value will change consecutively if the UP Button or DOWN Button is depressed for one second or longer.
- The range of Setting value is from ISO3 to ISO8000 (including ISO850). ( → P34)

# 5. Measurement


## 5-1 PHOTO Mode

Use this mode to obtain exposure settings when taking single images with adjustable film or digital cameras. Measuring Mode choices include Ambient, Cordless Flash and Cord Flash. When measurements are taken, the meter will indicate the aperture value required for proper exposure.

Refer to the custom setting to select the PHOTO Mode ( → P31).


### <Measuring in Ambient Light Mode>

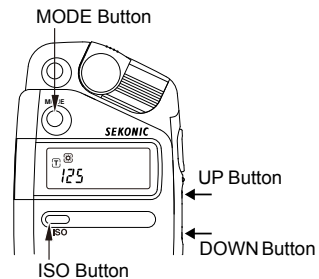
Continuous light like natural light (sunlight) as well as tungsten lamps and fluorescent lamps are measured in Ambient Light Mode.

Measurements in this mode are made in Shutter Speed Priority Mode, Aperture Priority Mode and EV Mode. Press MODE Button to select the  Ambient Mode.

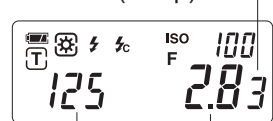
## 5-1-1 Shutter Speed Priority Mode

### Operation

1. Press the MODE Button to select the  Shutter Speed Priority Mode.
2. Hold ISO Button and press UP or DOWN Button to select the ISO sensitivity ( → P13).
3. Press the UP Button or DOWN Button to set the desired shutter speed.
4. Press the MEASURING Button to take a measurement. Measurements will be taken continuously and displayed as aperture values as long as the button is pressed. Releasing the MEASURING Button will hold and display the last measured value.



1/10 step measured value (f stop)



Set shutter speed

Measured value (f stop)

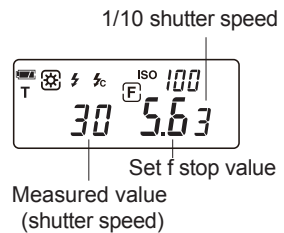
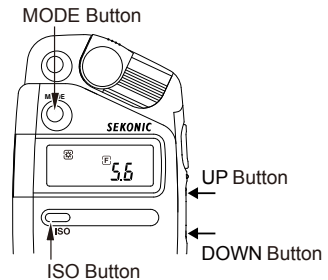
 **NOTE**

- Use Custom Setting to display shutter speed step increment in full, 1/2 or 1/3 step increment ( ➔ P31).
- Shutter speed can be set from 60 sec. to 1/8000 sec.
- After the measurement, the aperture value will be automatically adjusted to maintain proper exposure when changes in shutter speed and/or ISO are made.
- If “E.o” (over) or “E.u” (under) appears and blinks, the measurement cannot be made at the selected settings ( ➔ P29).

## 5-1-2 Aperture Priority Mode

### Operation

1. Press the **MODE Button** to select the **F Aperture Priority Mode**.
2. Hold **ISO Button** and press **UP** or **DOWN Button** to select the **ISO sensitivity** ( ➔ P13).
3. Press the **UP Button** or **DOWN Button** to set the desired aperture.
4. Press the **MEASURING Button** to take a measurement. Measurements will be taken continuously and displayed as **Shutter Speed** as long as the button is pressed. Releasing the **MEASURING Button** will hold and display the last measured value.


 **NOTE**

- It is possible to switch between full, 1/2 or 1/3 F stop values with the custom setting mode ( ➔ P31).
- You can set aperture from 0.5, 0.56, 0.63, .....4.0, 4.5, 4.8, 5.0, 5.6, 6.3, 6.7, 7.1, 8.0, 9.0, 9.5, 10, 11, 13, 14, 16, 18, 19, 20, 22.....64, 72, 76, 81, 90.
- If “E.o” (over) or “E.u” (under) appears and blinks, the measurement cannot be made at the selected settings ( ➔ P29).

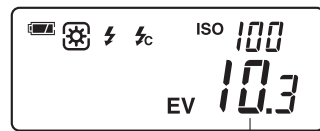
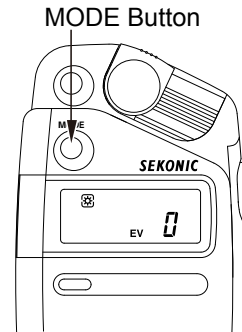


## 5-1-3

## EV Mode

## Operation

1. Press **MODE** Button to select **EV** Mode.
2. Press **MEASURING** Button to take a measurement. Measurements will be taken continuously and displayed as EV values as long as the button is pressed. Releasing the **MEASURING** Button will hold and display the last measured value.



Measured value (EV)


**NOTE**

- EV (Exposure Value) provides an easy way to observe differences in light falling on a scene or subject when illuminated by a continuous light source. An increase of 1EV indicates a 100% increase or doubling of the light. Conversely, a decrease of 1EV indicates a decrease of 50% or halving of the light.
- The relationship between aperture value (AV), shutter speed value (TV = Time Value) and EV is  $EV = AV + TV$ . From this relationship formula, the number of ways that the aperture and shutter speed can be combined against a certain constant EV can be calculated.

## ★ Aperture Value & Shutter Speed Value, EV Contrast Table

$$EV=AV+TV$$

(At ISO100)

		AV	0	1	2	3	4	5	6	7	8	9	10
TV			1.0	1.4	2.0	2.8	4.0	5.6	8.0	11	16	22	32
0	1s		0	1	2	3	4	5	6	7	8	9	10
1	1/2		1	2	3	4	5	6	7	8	9	10	11
2	1/4		2	3	4	5	6	7	8	9	10	11	12
3	1/8		3	4	5	6	7	8	9	10	11	12	13
4	1/15		4	5	6	7	8	9	10	11	12	13	14
5	1/30		5	6	7	8	9	10	11	12	13	14	15
6	1/60		6	7	8	9	10	11	12	13	14	15	16
7	1/125		7	8	9	10	11	12	13	14	15	16	17
8	1/250		8	9	10	11	12	13	14	15	16	17	18
9	1/500		9	10	11	12	13	14	15	16	17	18	19
10	1/1000		10	11	12	13	14	15	16	17	18	19	20

\* Horizontal axis is for aperture values and the vertical axis is for shutter speed values. The numbers on gray field are EV values.

## <Measuring in Flash Light Mode>

Flash illumination is light that is produced by the very brief light pulse of an electronic flash unit or flash bulb.


This measuring method includes the cord and cordless flash modes.

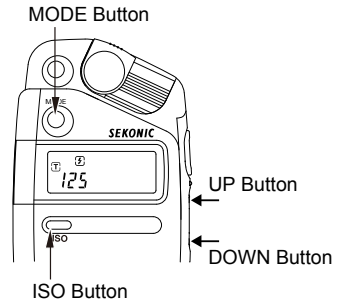
When measurements are taken, the meter will indicate the aperture value required for proper exposure. The displayed value indicates the total amount of light, including flash light and ambient light, measured during the shutter speed time set.

### 5-1-4 Cordless Flash Mode

In this Measuring Mode, the meter detects flash brightness without meter-flash connection after Measuring Button pressed to arm meter for 90 seconds and flash fired separately. It displays F-stop value for input shutter speed and ISO sensitivity. It is used when the synchro cord will not reach because of the distance between the flash and meter, or when use of synchro cord is inconvenient.


#### Operation

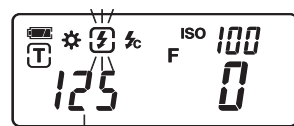
1. Press the **MODE Button** to select to the  **Cordless Flash Mode**.
2. Hold **ISO Button** and press **UP** or **DOWN** Button to select the **ISO sensitivity** ( → P13).
3. Press the **UP** Button or the **DOWN** Button to set the desired shutter speed.



#### NOTICE

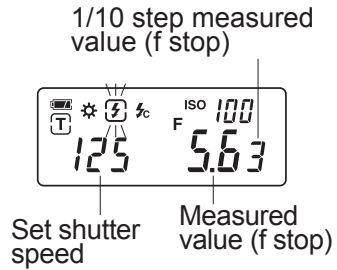
- Make sure that the settings are within the specifications of the camera and flash system.

4. When the **MEASURING Button** is pressed, the mode mark  will blink to indicate that the meter is ready to measure. The ready to measure mode will continue for approximately 90 seconds.




Set shutter speed

## 5. Fire the flash to take a measurement.



### NOTE

- If the icon  stops blinking before the flash fires, repeat Steps 4 and 5.

### NOTICE

In case of the following, please follow "Cord Flash Mode"( ➔ P20).

- In mixed flash-ambient measurements, the meter may fail to detect the light if the flash brightness is 9EV lower than the ambient light.
- Rapid start fluorescent lamps and special lighting are sometimes mistaken for flash and accidentally measured.
- Even if the flash is not fired, when a sudden light change occurs in the light receptor, measurement may be made.


### NOTE

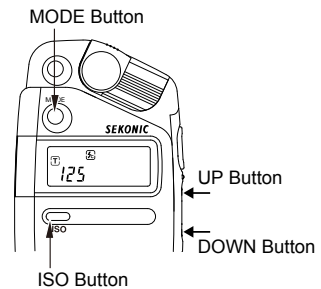
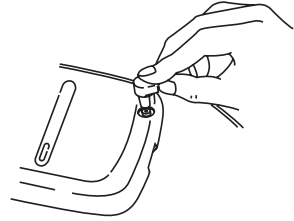
- Use Custom Setting to display shutter speed values in full, 1/2 or 1/3 values ( ➔ P31).
- Shutter speed can be set from 1 sec. through to 1/500 sec. Special shutter speed settings will appear above 1/500 sec. (1/75, 1/80, 1/90 and 1/100 sec.)
- The displayed aperture value will be cancelled if the shutter speed is changed after a cord measurement is taken. In such cases please measure again.
- After measuring, If the ISO is changed, the corresponding measured value (f stop value) will be displayed.
- If "E.o"(over) or "E.u" (under) appears and blinks, the measurement cannot be made at the selected settings ( ➔ P29).

## 5-1-5 Cord Flash Mode

In this Measuring Mode, a synchro cord (sold separately) is used to connect the flash to the meter. Use this Cord Flash Mode when you need to ensure synchronization with the flash or use a flash bulb. After pressing the Measuring Button, the meter trigger the flash unit and displays F-stop value.

### Operation

1. Connect the flash synchro cord to the synchro terminal on the light meter.  
(Remove the Synchro Terminal Cap)
2. Press MODE Button to select  Cord Flash Mode.
3. Hold ISO Button and press UP or DOWN Button to select the ISO sensitivity ( → P13).
4. Press the UP Button or the DOWN Button to set the desired shutter speed.

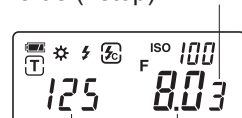


### NOTICE

- Make sure that the settings are within the specifications of the camera and flash system.

5. Press the UP Button or the DOWN Button to set the desired shutter speed.  
Press the MEASURING Button to trigger the flash.  
The measured value (f stop) will be displayed.

1/10 step measured value (f stop)



Set shutter speed

Measured value (f stop)

 **NOTICE**

- The electronic flash unit may trigger when you connect the synchro cord or operate the POWER Button.
- A cord-connected flash may not fire if the flash unit has an extremely low trigger voltage. If this happens, use the Cordless Flash Mode ( ➔ P18).

 **NOTE**

- The setting of shutter speed is same as "Cordless Flash Mode" ( ➔ P18).
- If the ISO setting is changed after measuring, the displayed aperture value will be automatically adjusted for the proper exposure.
- If "E.o" (over) or "E.u" (under) appears and blinks, the measurement cannot be made at the selected settings ( ➔ P29).

**WARNING**

- To avoid a danger of choking, please place Synchro terminal cap in a location where an infant cannot reach and accidentally swallow it. There is a danger of suffocation.

**CAUTION**

- There is a danger of electric shock if the meter is handled with wet hands, during rain, in areas splashed by water or where there is a lot of moisture. This may also result in damage to the meter.

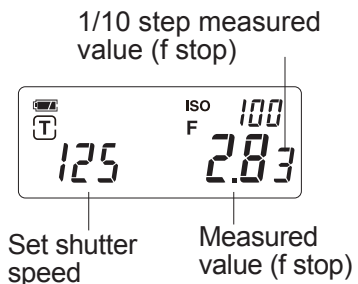
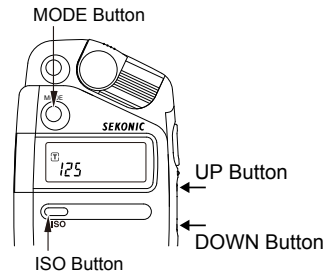
## 5-2 HD\_CINE Mode

Use this mode to obtain exposure settings when using DSLR and digital video cameras that record images using frame rate and shutter speed settings. When measurements are taken, the meter will indicate the aperture value required for proper exposure. This mode also enables taking Simplified Illuminance readings (Selectable in Custom setting). Refer to the custom setting to select the HD\_CINE Mode ( → P31).

### 5-2-1 Shutter Speed Priority Mode

#### Operation

1. Press **MODE** Button to select the **T** Shutter Speed Priority Mode.
2. Hold **ISO** Button and press **UP** or **DOWN** Button to select the **ISO** sensitivity ( → P13).
3. Press the **UP** or **DOWN** Button to set the desired shutter speed.
4. If necessary, set the frame rate in **Frame Rate Setting Mode** (Default setting is 24fps. → P23).
5. Press the **MEASURING** Button to take a measurement. Measurements will be taken continuously and displayed as aperture values as long as the button is pressed. Releasing the **MEASURING** Button will hold and display the last measured value.



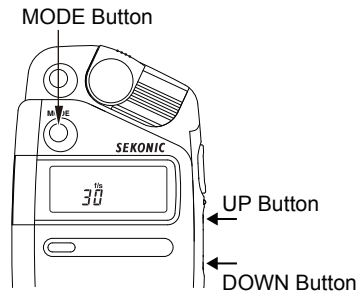
 **NOTE**

- Use Custom Setting to display shutter speed values in full, 1/2 or 1/3 step increment (➔ P31).
- Shutter speeds can be set from 1/8 to 1/8000 sec. A special grouping of commonly used Cine Shutter speeds will appear above 1/8000 second (1/24, 1/25, 1/30, 1/48, 1/50, 1/60, 1/96, 1/100, 1/120 sec.).
- Frame rate sets the lower limit to shutter speed. (i.e. If 30 f/s is set, shutter speeds can be set from 1/30 sec.)
- After the measurement, the aperture value will be automatically adjusted to maintain proper exposure when changes in shutter speed and/or ISO are made.
- If "E.o"(over) or "E.u" (under) appears and blinks, the measurement cannot be made at the selected settings (➔ P29).

## 5-2-2 Frame Rate Setting

### Operation

1. Press **MODE** Button to select frame rate display f/s.
2. Press **UP** or **DOWN** Button to set the desired frame rate.
3. Press **MEASURING** Button to return to **T** Shutter Speed Priority Mode, and make a light measurement simultaneously.


 **NOTE**

- Available frame rates include 8, 12, 16, 18, 24, 25, 30, 32, 48, 50, 60, 64, 96, 100, 120 and 128 f/s.
- Frame rate sets the lower limit to shutter speed. (i.e. If 30 f/s is set, shutter speeds are settable from 1/30 sec.)



## 5-2-3

## Simplified Illuminance Mode

Illuminance Mode can be selected in Custom Setting ( → P31).

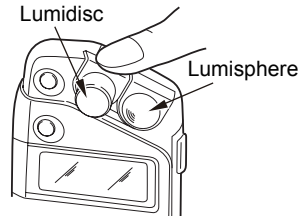
## Operation

1. Slide the Lumisphere all the way to the right and attach the Lumidisc (optional accessory) ( → P10).



2. Press MODE Button to select the Simplified Illuminance Mode.

3. Position the Lumidisc in front of and parallel to the area to be measured and press MEASURING Button. Measurements will be taken continuously and displayed as illuminance values as long as the button is pressed. Releasing the MEASURING Button will hold and display the last measured value.



Measured value (Lux)



Measured value (Foot-Candle)

## 5-3 CINE Mode

Use this mode to obtain exposure settings when using film or digital motion-picture cameras that record images using frame rate and shutter angle settings.

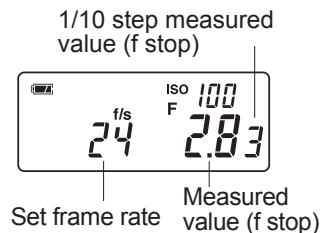
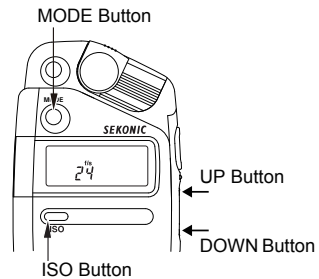
When measurements are taken, the meter will indicate the aperture value required for proper exposure. This mode also enables taking Simplified Illuminance readings (Selectable in Custom setting).

Refer to the custom setting to select CINE Mode ( ➔ P31).

### 5-3-1 Frame Rate Priority Mode

#### Operation

1. Press **MODE** Button to select **f/s** Frame Rate Priority Mode.
2. Hold **ISO** Button and press **UP** or **DOWN** Button to select the **ISO** sensitivity ( ➔ P13).
3. Press **UP** or **DOWN** Button to set the desired frame rate.
4. If necessary, set shutter angle in **Shutter Angle Setting** mode (default setting is 180 degrees. ➔ P26).
5. Press the **MEASURING** Button to take a measurement. Measurements will be taken continuously and displayed as aperture values as long as the button is pressed. Releasing the **MEASURING** Button will hold and display the last measured value.



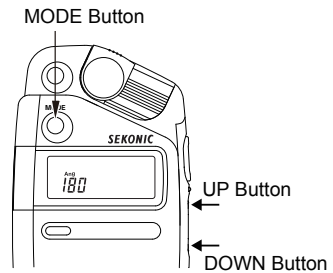
 **NOTE**

- Available frame rates include 8, 12, 16, 18, 24, 25, 30, 32, 48, 50, 60, 64, 96, 100, 120 and 128 f/s.
- After the measurement, the aperture value will be automatically adjusted to maintain proper exposure when changes in frame rate and/or ISO are made.
- If “E.o”(over) or “E.u” (under) appears and blinks, the measurement cannot be made at the selected settings ( ➔ P29).

## 5-3-2 Shutter Angle Setting

### Operation

1. Press **MODE** Button to select the **Ang Shutter Angle Setting Mode**.
2. Press **UP** or **DOWN** Button to set the desired shutter angle.
3. Press **MEASURING** Button to return to **f/S** Frame rate priority mode, and make a light measurement simultaneously.


 **NOTE**

- Available Shutter angles include 45, 90, 180, 270 and 360 degrees.

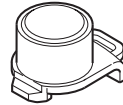
### 5-3-3 Simplified Illuminance Mode

Illuminance mode can be selected in Custom setting ( → P31).

#### Operation

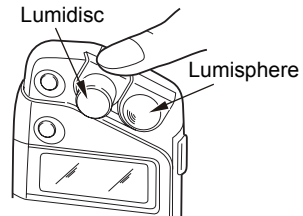
1. Slide the Lumisphere all the way to the right and attach the Lumidisc (optional accessory) ( → P10).

Lumidisc

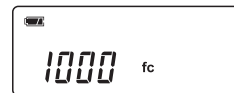


2. Press MODE Button to select the Simplified Illuminance Mode.

3. Position the Lumidisc in front of and parallel to the area to be measured and press MEASURING Button. Measurements will be taken continuously and displayed as illuminance values as long as the button is pressed. Releasing the MEASURING Button will hold and display the last measured value.



Measured value (Lux)



Measured value (Foot-Candle)

## 5-4

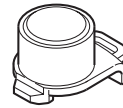
## Measuring Contrast of Light

This method is useful for setting brightness levels (ratios) of key, line, hair, and eye lights for cinematography applications or evaluating studio lighting for Photo applications. It is also useful to check the evenness of illumination across a subject area or background such as a green screen.

## Operation

1. Slide the Lumisphere all the way to the right and attach the Lumidisc (optional accessory) (→ P10).

Lumidisc



2. Turn ON just the main light source. Point the Lumidisc toward the main light source from the subject position and take a measurement.
3. Next turn ON just the secondary light source. Point the Lumidisc at the secondary light source and take a measurement.
4. Determine the lighting ratio (contrast ratio) using the difference of measured values of the main light source and the secondary light source.

EV Difference of Measuring Value	Contrast Ratio
1	2 : 1
1.5	3 : 1
2	4 : 1
3	8 : 1
4	16 : 1
5	32 : 1

 NOTE

- To determine exposure after adjusting lights, turn ON both main light source and secondary light source, then take a measurement with the Lumisphere aimed in the direction of camera's lens axis.

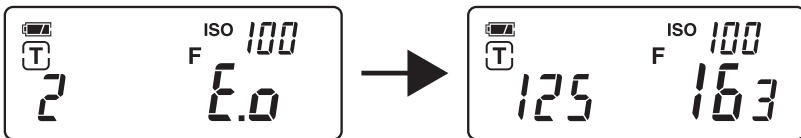
<b>5-5</b>	<b>Out of Display Range / Measurement Range</b>
<b>5-5-1</b>	<b>Out of Display Range</b>

## 1) When “E.o” (Exposure Over) appears on the display

If the measured value higher than the maximum display range, “E.o” (Exposure over) will appear even though measured value is within the meter’s measuring range. In this case, make one of the following adjustments to display the measured value.

### Operation

1. Press UP Button to select a faster shutter speed setting.
2. Set lower ISO by pressing DOWN Button while holding ISO Button.
3. If possible, lower the output power of light source, and take another measurement.



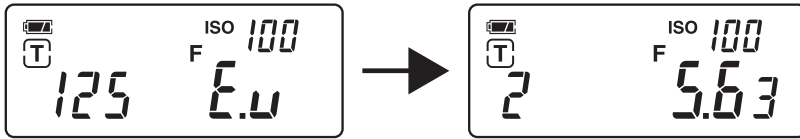
## 2) When “E.u” (Exposure under) appears on the display

If the measured value is lower than the minimum display range, “E.u” (Exposure under) will appear even though measured value is within the meter’s measuring range. In this case, make one of the following adjustments to display the measured value.

### Operation

1. Press DOWN Button to select a slower shutter speed setting.
2. Set higher ISO by pressing UP Button while holding ISO Button.

3. If possible, raise the output power of light source, and take another measurement.

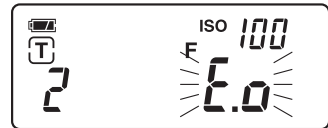


## 5-5-2

## Out of Measurement Range

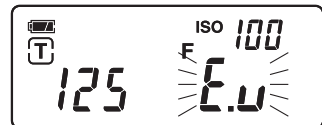
### 1) When “E.o” (Exposure over) blinks on the display

If the brightness exceeds the measuring range of the meter, “E.o” will blink to indicate that measurements cannot be made. In this case, if possible, lower the flash output power or move away from the light source and take another measurement.



### 2) When “E.u” (Exposure under) blinks on the display

If the darkness is beyond the measuring range of the meter, “E.u” will blink to indicate that measurements cannot be made. In this case, if possible, raise the flash output power or move closer to the light source and take another measurement.



# 6. Advanced Functions

## 6-1 Custom Setting Function

Use these settings to customize meter operations and displays to fit your camera and metering requirements.

CS number	Custom setting group	Custom setting item		
<b>CS 1</b>	Display mode	PHOTO mode <i>PHOTO</i> (*1)	HD_CINE mode <i>HD_C</i>	CINE mode <i>CINE</i>
<b>CS 2</b>	Increments of aperture and shutter speed	Full Step <i>10</i> (*1)	Paso de 1/2 <i>0.5</i>	1/2 Step <i>0.3</i>
<b>CS 3</b>	Simplified illuminance display (*2)	Foot-Candle <i>Fc</i> (*1)	Lux <i>L</i> *	No Display <i>NONE</i>

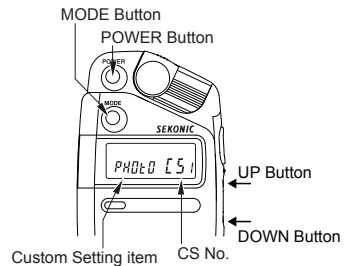
※1 Default settings.

※2 Simplified illuminance (Lux or Foot-Candle) is not displayed in PHOTO mode.

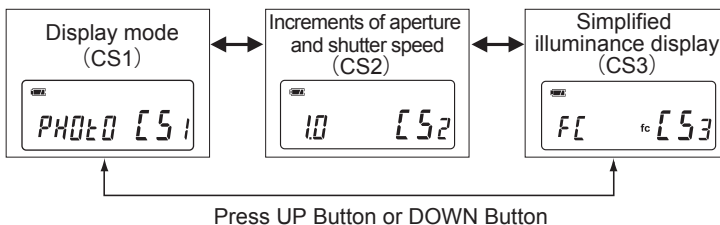
### Operation

- To enter the custom setting mode, hold the MODE Button and then press the POWER Button to turn the meter ON.**

'CS' (custom setting) and setting number (1 to 3) will appear at the right of the display. The current custom setting will appear at the left side of the display.



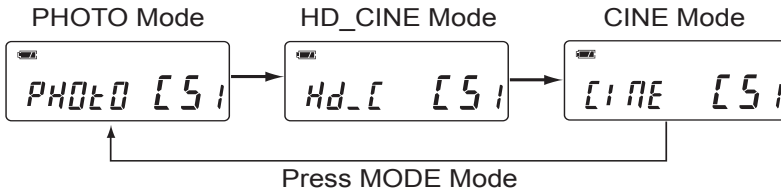
- Press the UP or DOWN Button to select the desired custom setting number.**



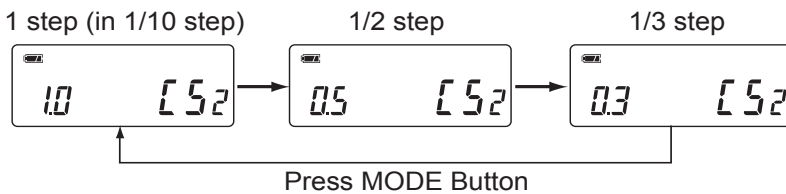


3. The Custom setting item will change each time the **MODE** Button is pressed.

### <Display Mode Group>



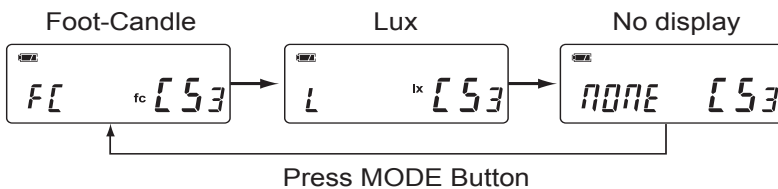
### <Increments of Aperture and Shutter Speed Group>



### NOTICE

- The 1/10 step increment will not be displayed when 1/2 step or 1/3 step is set.
- When using EV mode in PHOTO mode, the 1/10 step increment is displayed whichever increment is set.

### <Simplified Illuminance Display Group>



### NOTICE

- Foot-Candle display is available only for international models intended for use outside Japan.
- Illuminance will be displayed in HD\_CINE Mode or CINE Mode ONLY( Not displayed in PHOTO Mode).

4. Press **POWER** Button to exit Custom setting mode.

## 6-2 Calibration Compensation Function

This meter has been calibrated to Sekonic standards. However, compensation may be necessary to calibrate the meter to camera specifications or to match the display to another exposure meter. Calibration compensation can be made in precise 1/10 step increments in a +/-1.0 EV range.

### Operation

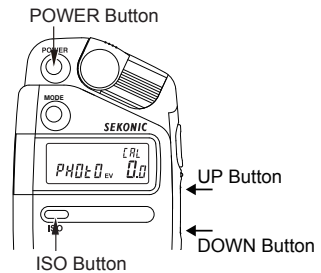
#### 1. Set the Display mode (PHOTO, HD CINE or CINE) in advance.

#### NOTE

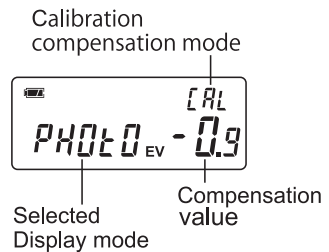
- Calibration compensation can be set independently in each Display mode. Select the Display mode in advance in the custom setting function. (➔ P31)

#### 2. To enter the calibration compensation mode, hold the ISO Button and press the POWER Button to turn the meter ON.

“CAL” will appear at the upper right of the LCD. The Display mode will appear at the lower left of the LCD. The current compensation amount will appear at the lower right of display. (Default setting is “0.0”)



#### 3. Select the compensation value by pressing the UP or DOWN Button.



#### NOTICE

- Plus compensation results in the increased exposure (the image becomes brighter), and minus compensation results in the decreased exposure (the image becomes darker).
- Calibration compensation should be made after sufficient testing of the camera or film in use indicates the necessity.

#### 4. Press POWER Button to exit Calibration compensation mode.

# 7. Various Setting Values

## 7-1 ISO Sensitivity

Setting values are basically defined in 1/3 step increments. However, ISO850 used in Cine camera is displayed between ISO800 and ISO1000.

3, 4, 5, 6, 8, 10, 12, 16, 20, 25, 32, 40, 50, 64, 80, 100, 125, 160, 200, 250, 320, 400, 500, 640, 800, 850, 1,000, 1,250, 1,600, 2,000, 2,500, 3,200, 4,000, 5,000, 6,400, 8,000
--

## 7-2 Shutter Speed

“m” denotes “minutes”, and “s” denotes “seconds”. Numbers without a unit are in “second” units. You can select the desired value in Custom Setting to suit the camera settings. In Ambient Mode, the fastest shutter speed setting is 1/8,000 sec. In Flash Mode, the fastest shutter speed setting is 1/500 sec. The shutter speed from 1/75 which appears after the fastest shutter speed is old shutter speed. The displayed old shutter speeds differ between ambient light and flash light.

1 step increments (Default)	60s, 30s, 15s, 8s, 4s, 2s, 1s, 1/2, 1/4, 1/8, 1/15, 1/30, 1/60, 1/125, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/8,000, 1/75, 1/80, 1/90, 1/100
1/2 step increments	60s, 45s, 30s, 20s, 15s, 10s, 8s, 6s, 4s, 3s, 2s, 1.5s, 1s, 0.7s, 1/2, 1/3, 1/4, 1/6, 1/8, 1/10, 1/15, 1/20, 1/30, 1/45, 1/60, 1/90, 1/125, 1/180, 1/250, 1/350, 1/500, 1/750, 1/1,000, 1/1,500, 1/2,000, 1/3,000, 1/4,000, 1/6,000, 1/8,000, 1/75, 1/80, 1/90, 1/100
1/3 step increments	60s, 50s, 40s, 30s, 25s, 20s, 15s, 13s, 10s, 8s, 6s, 5s, 4s, 3.2s, 2.5s, 2s, 1.6s, 1.3s, 1s, 0.8s, 0.6s, 0.5s, 0.4s, 0.3s, 1/4, 1/5, 1/6, 1/8, 1/10, 1/13, 1/15, 1/20, 1/25, 1/30, 1/40, 1/50, 1/60, 1/80, 1/100, 1/125, 1/160, 1/200, 1/250, 1/320, 1/400, 1/500, 1/640, 1/800, 1/1,000, 1/1,250, 1/1,600, 1/2,000, 1/2,500, 1/3,200, 1/4,000, 1/5,000, 1/6,400, 1/8,000, 1/75, 1/80, 1/90, 1/100
HD Cine Mode only	The following special shutter speeds appear after the fastest shutter speed setting.(1/8 ~ 1/8,000). 1/24, 1/25, 1/30, 1/48, 1/50, 1/60, 1/64, 1/96, 1/100, 1/120

## 7-3 F-stop (Aperture)

You can select the desired value in Custom Setting to suit the camera settings.

1 step increments (Default)	0.5, 0.7, 1.0, 1.4, 2.0, 2.8, 4.0, 5.6, 8.0, 11, 16, 22, 32, 45, 64, 90
1/2 step increments	0.5, 0.6, 0.7, 0.8, 1.0, 1.2, 1.4, 1.7, 2.0, 2.4, 2.8, 3.4, 4.0, 4.8, 5.6, 6.7, 8.0, 9.5, 11, 13, 16, 19, 22, 27, 32, 38, 45, 54, 64, 76, 90
1/3 step increments	0.5, 0.56, 0.63, 0.7, 0.8, 0.9, 1.0, 1.1, 1.3, 1.4, 1.6, 1.8, 2.0, 2.2, 2.5, 2.8, 3.2, 3.6, 4.0, 4.5, 5.0, 5.6, 6.3, 7.0, 8.0, 9.0, 10, 11, 12.7, 14, 16, 18, 20, 22, 25, 28, 32, 35, 40, 45, 51, 57, 64, 72, 81, 90

## 7-4 Frame Rate

The available frame rate (f/s) settings are as follows.

8, 12, 16, 18, 24, 25, 30, 32, 48, 50, 60, 64, 96, 100, 120, 128

## 7-5 Shutter Angle

The available shutter angle settings are as follows.

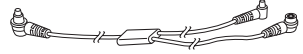
45°, 90°, 180°, 270°, 360°

# 8. Optional Accessories

## ■ Synchro Cord

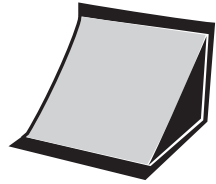
This is a five-meter (16.4 feet) long cord with three plugs. An exposure meter, a camera and a flash can all be connected at the same time without having to plug or unplug the cord during shooting. Also, the connection terminal (male) on the light meter side of the synchro cord has a locking mechanism to ensure it remains connected to the meter.

(1 male terminal on the light meter side, 1 male terminal and 1 female terminal)



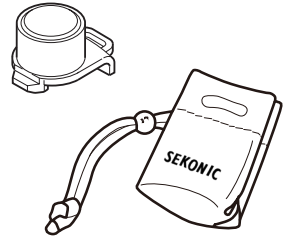
## ■ 18% Gray Card

This gray card has a reflection ratio of 18%. Shooting this card enables you to check the standard measured values. If this standard gray card is measured in advance using the reflected light system of the light meter, you can obtain the standard exposure value.



## ■ Lumidisc (with Case)

The Lumidisc is used to measure light falling on green-screen walls, paintings or flat art. It is also used to adjust lighting ratios with multiple light sources or when taking Lux and Footcandle measurements.



# 9. Specifications

## Type

- Digital light meter for ambient and flash light

## Light Receiving Method

- Incident light and reflected light

## Light receiving section

- |                   |   |
|-------------------|---|
| • Incident light  | Lumisphere, Lumidisc (optional accessory) |
| • Reflected light | Lens (light receiving angle of 40°)       |

## Light Receptor

- Silicon photo diode

## Measurement Mode

- |                |                 |   |
|----------------|-----------------|---|
| • PHOTO Mode   | • Ambient light | Shutter speed priority mode<br>Aperture priority mode<br>EV mode                      |
|                | • Flash light   | Cordless flash mode<br>Cord flash mode  |
| • HD_CINE Mode | • Ambient light | Shutter speed priority mode<br>Frame rate setting mode<br>Simplified illuminance mode |
|                | • CINE Mode     | • Ambient light   |
| • CINE Mode    | • Ambient light | Frame rate priority mode<br>Shutter angle setting mode<br>Simplified illuminance mode |

## Repeat accuracy

- $\pm 0.1$  EV or less

## Measurement range (ISO 100)

- |  |                 |                         |
|--|-----------------|-------------------------|
| • Ambient light                              | Incident light  | EV 0 to EV19.9          |
|  | Reflected light | EV 0 to EV19.9          |
| • Flash light                                | Incident light  | F No. 1.0 to F No. 90.9 |
|  | Reflected light | F No. 1.0 to F No. 90.9 |
| • Illuminance<br>(in two significant digits) | Incident light  | 2.50lx to 190,000lx     |
|  |                 | 0.23fc to 17,000fc      |

## Calibration Constant

- |                            |                     |                |
|----------------------------|---------------------|----------------|
| • Incident light metering  | Lumisphere C = 340, | Lumidisc C=250 |
| • Reflected light metering | K = 12.5            |                |

## Display Range

• ISO sensitivity	ISO 3 to ISO 8,000 (in 1/3 steps), ISO 850	
• Shutter speed	• PHOTO Mode	Ambient light : 60 sec. to 1/8000 sec. (in 1, 1/2, 1/3 step)  Flash light : 1 sec. to 1/500 sec. (in 1, 1/2, 1/3 step) plus 1/75, 1/80, 1/90, 1/100 sec.
	• HD_CINE Mode	Ambient light 1/8 sec. to 1/8000 sec. (in 1, 1/2, 1/3 step) plus 1/24, 1/25, 1/30, 1/48, 1/50, 1/60, 1/96, 1/100, 1/120 sec.
• Frame rate (f/s)	8, 12, 16, 18, 24, 25,30, 32, 48,50, 60, 64, 96, 100, 120, 128 f/s	
• Aperture	F No. 0.5 to F No. 90.9 (in 1, 1/2, 1/3 step)	
• Shutter angle	45, 90, 180, 270, 360 degrees	
• EV	Incident light	EV-6.0 to EV27.2 (in 1/10 step)
	Reflected light	EV-6.0 to EV27.2 (in 1/10 step)

## Other functions

• Out of display or measurement range	E.u (Exposure Under) or E.o (Exposure Over) indication	
• Battery Power Indicator display	3 level status icon	
• Auto Power Off	(approx. 4 min after last operation)	
• Backlight LCD (EL)	Automatic illumination (under EV5)	
• Custom settings	3 item settings	
• Calibration compensation	-1.0 to +1.0EV (in 1/10 step)	

## Battery used

- Type-AA 1.5-volt battery (alkaline, manganese, types)

## Operating temperature range

- 0°C to +40°C    • Ambient humidity 85% RH or less (at 35°C) (no condensation)

## Storage temperature range

- -20°C to +60°C    • Ambient humidity 85% RH or less (at 35°C) (no condensation)

## Dimensions

- Approx 63(W) x 110(H) x 22(D) mm

## Weight

- Approx 80g (without battery)




## Standard accessories

- Soft case, strap, synchro terminal cap, startup guide, safety precaution

For improvement reasons the specifications and external appearance in this manual may be subject to future changes without prior notification.

# 10. Legal Requirements

This product complies with the following legal requirements.

Destination	Standard		Details
<b>Europe</b>	CE 	SAFETY	EN 60950-1:2006/A2:2013
		EMC	EMS: EN55024:2010
			EMI: EN55032:2012/AC:2013
Environmental	WEEE, RoHS		
<b>North America</b>	FCC (US) 	EMC	FCC Part15 SubpartB ClassB
		IC (Canada)	EMC
<b>Japan</b>	Environmental Standard		Containers and Packaging Recycling Act
<b>Korea</b>	KC 	This symbol mark indicates the registration of RRA. MSIP-REM-SK0-L-308X.	
Class B Equipment (For Home Use Broadcasting & Communication Equipment) Class B equipment is equipment suitable for use in locations in residential environments for domestic purposes. Class B equipment shall meet class B limits.			



# 11. Troubleshooting

If your meter is not operating properly, as you expect, please consult the following conditions and attempt the suggested solutions before contacting Sekonic. Non-operation can be due to incorrect, mis-setting of the meter or battery condition. Should your meter be malfunctioning, please contact place where meter was purchased or Sekonic for service and repair.

Condition	Possible reasons	What to do
The power doesn't turn on. (No display)	Was the power button pressed and held in for more than one second?	Hold the power supply button down for more than one second.
	Batteries installed properly (+/-)?	Check the display (+/-) (➡ P5)
	Batteries dead?	Wipe them with a dry cloth. (➡ P7)
	Correct batteries being used?	Check the batteries. (➡ P5)
Measured value does not look correct.	Does the Lumisphere come to the intermediate position? (It is unable to measure correctly because the light distribution characteristic is changed.)	Slide the Lumisphere mounting plate to fix firmly. (➡ P9)
	Measuring Mode set for type of light being measured? (i.e. Measuring the flash light in Ambient light mode.)	Check if the correct Measuring Mode is selected.
Cannot set the shutter speed even if it is within the range of setting.	In HD CINE Mode, shutter speeds cannot be set lower than the selected frame rate. (For example, if the frame rate is set to 15 f/s, the shutter speed can only be set up to 1/15 s.)	In HD CINE Mode, select the lower frame rate, and set the desired shutter speed.
Displayed shutter speed and aperture values do not look like camera's settings.	Are display steps set for light meter equal to your camera's setting?	Select the correct increments of shutter speed and aperture in Custom Setting to match to the step between the light meter and the camera.
The EV is not displayed.	The EV is displayed in the following Measuring Mode. • Ambient light measurements in PHOTO Mode	Use a Measuring Mode which displays the EV value.

# 12. After-Sales Services

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- **Contact your local distributor or camera store that you purchased from for warranty and service.**
- **Even within the warranty period, repair services may be provided on a paid basis.  
Check the conditions of warranty provided by local distributor or retailer.**
- **The warranty is not valid unless the copy of proof of purchase with the date of purchase and the retailer name. Be sure to store such information (bill of purchase or receipt) in a safe location.**
- **We will retain performance parts for repairs for approximately seven years after production is discontinued. Therefore, we may not be able to carry out repairs after this period has elapsed.**
- **When requesting repairs, please provide us with as much detail as possible about the failure or specific failure locations that you are able to identify. In certain cases, some products that are returned to us for repairs are not malfunctioning, and begin to operate normally again when we simply replace the batteries. Before requesting repairs, please confirm that the batteries are installed in the correct polarities, contain sufficient charge, and that they match the rating.**

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