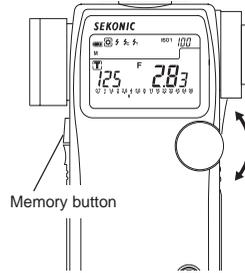


6. Advanced Functions

1. Memory function

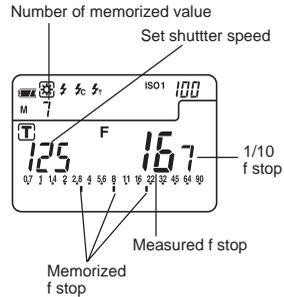
This meter can store up to nine measured values in memory for incident light and reflected light simultaneously. This feature can be used in the following modes;
Ambient light : shutter speed priority, aperture priority or EV mode.
Electronic Flash light : cord, cordless or wireless flash radio triggering mode.

1. Press the Measuring button ⑭ and take a measurement. The Current measured value on the analog scale will blink.
2. Press the Memory button ⑦ and store the measured value in memory, and the memorized value on the analog scale will stop blinking.
The number of values in memory is displayed on the LCD. The memorized value is displayed on the analog scale. By repeating this operation, up to nine values can be stored in memory.
3. To clear the memory, press the memory clear button ②③ or switch to another measurement mode.



Reference:

- When pressing Memory clear button ②③ once, the last memorized value is cleared. If you want to clear all memorized values, please hold down the Mode button ⑩ and press the Memory clear button.



4. Memory Recall

To enter Memory recall mode, hold down the Mode button and press the Memory button, and the "M" icon and number of stored measurements will blink. Rotate Jog wheel to recall memorized value. To exit Memory recall mode, hold down the Mode button and press the Memory button again, and "M" icon and number of stored measurements will stop blinking.

Reference:

- During Memory recall mode, when you press Memory clear button, the currently recalled value is cleared.

NOTE:

- The memory function cannot be used in "Multiple flash (cumulative) mode."
- Measured values for ten times or more measurements will be displayed but cannot be stored in memory.

6. Advanced Functions

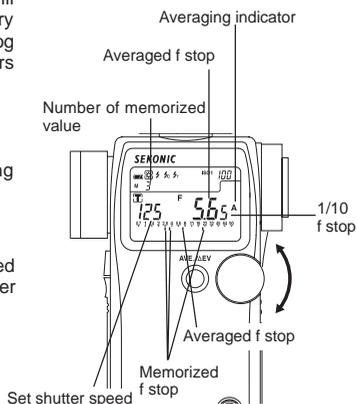
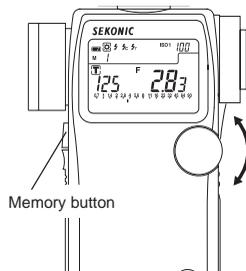
2. Averaging function

This function displays the average of up to nine of the values in memory.

1. Press the Measuring button ⑭ and take a measurement. Current measured value on the analog scale will blink.
2. Press the Memory button ⑰ and store the measured value in memory, and memorized value on the analog scale stops blinking.
3. When the AVE./ Δ EV button ④ is pressed, an averaged value for up to nine measurements will be displayed on the LCD. The values in memory and the averaged value are displayed on the analog scale (The averaged value blinks). An "A" appears in LCD to indicate this is an average.
4. The average mode can be canceled by pressing the AVE./ Δ EV button.

Reference:

- When the EV scale is selected, the averaged exposure value will be displayed in the center of the scale.



3. Contrast function

This function is useful for evaluating studio lighting and checking the evenness of the lighting set-up across the subject area.

Take a measured value at a certain point as a standard value. The difference between the standard value and a new measured value is displayed in EV and the measurements are displayed on the analog scale.

Example of adjusting lights using Contrast function in shutter speed priority mode (incident light).

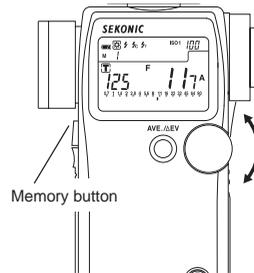
1. Turn the Lumisphere retracting ring ① to lower it to the  (retracted) mark position.



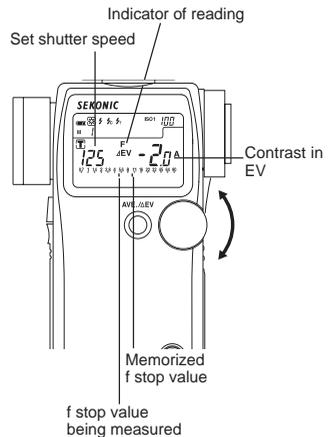
6. Advanced Functions

- Turn any secondary light source off. Point the Lumisphere toward the main light source, from the position of the subject and take a measurement. Press the Memory button ⑦ and store the value in memory.

- Press the AVE./Δ EV button ④ and display the "A" mark on the LCD indicating a standard value.



- Turn the main lighting off. Now, point the Lumisphere toward the secondary light source. While pressing and holding the Measuring button ⑭, the indicated difference between the main and secondary light source is displayed in EV. At the same time, the standard value and a new measured value are displayed on the analog scale.



EV difference of Δ EV value	Contrast ratio
1	2 : 1
1.5	3 : 1
2	4 : 1
3	8 : 1
4	16 : 1

- The Standard value can be cleared by pressing the Memory clear button ⑲, or AVE./Δ EV button.

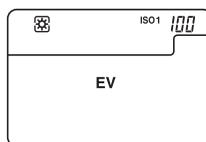
Reference:

- To determine exposure after adjusting lights, turn both main and secondary light sources on, raise the Lumisphere to the ☰ mark position, then take a reading with the Lumisphere aimed in the direction of camera's lens axis in incident light.
- This function can also be used for reflected light.
- You can select aperture scale or latitude scale by holding Mode button ⑩ and pressing AVE./ΔEV.

6. Advanced Functions

4. How to use an incident illuminance (LUX or FC) meter (L-758DR/758D)

1. Turn the Lumisphere retracting ring ① to lower it to the  (retracted) mark position.
2. Make sure that any compensation is canceled (Exposure/Calibration compensation: see page 40 & 41, Compensation of camera exposure profile: see page 52).
3. Set the meter to EV mode and ISO 100.
4. Place the meter parallel to the subject and take a measurement.
5. The measured EV can be converted to find the brightness level with the conversion table below.



* EV value → Lux conversion table

EV	Decimal places		EV	Decimal places	
	0	0.5		0	0.5
-2	0.63	0.88	9	1300	1800
-1	1.3	1.8	10	2600	3600
0	2.5	3.5	11	5100	7200
1	5.0	7.1	12	10000	14000
2	10	14	13	20000	29000
3	20	28	14	41000	58000
4	40	57	15	82000	120000
5	80	110	16	160000	230000
6	160	230	17	330000	460000
7	320	450	18	660000	930000
8	640	910	19	1300000	1900000

* EV value → Foot candle (FC) conversion table

EV	Decimal places		EV	Decimal places	
	0	0.5		0	0.5
-2	0.06	0.08	9	120	170
-1	0.12	0.16	10	240	340
0	0.23	0.33	11	480	670
1	0.46	0.66	12	950	1300
2	0.93	1.3	13	1900	2700
3	1.9	2.6	14	3800	5400
4	3.7	5.3	15	7600	11000
5	7.4	11	16	15000	22000
6	15	21	17	30000	43000
7	30	42	18	61000	86000
8	59	84	19	120000	170000

Reference:

- L-758CINE can read LUX or FC directly when the custom setting function is used (refer to page 44).

6. Advanced Functions

5. How to use a reflected luminance (cd/m² or FL) meter (L-758DR/758D)

1. Make sure that any compensation is canceled (Exposure/Calibration compensation: see page 40 & 41, Compensation of camera exposure profile: see page 52).
2. Set the meter to EV mode and ISO 100.
3. Set meter to spot reading for reflected light.
Take the measurement by looking through the finder and aligning so the subject that will be measured is inside the circle.
4. The measured EV can be converted to find the brightness level with the conversion table below.

* EV value → cd/m² conversion table

Decimal places EV	0	0.5	Decimal places EV	0	0.5
1	0.25	0.35	11	260	360
2	0.5	0.7	12	510	720
3	1	1.4	13	1000	1400
4	2	2.8	14	2000	2900
5	4	6	15	4100	5800
6	8	11	16	8200	12000
7	16	23	17	16000	23000
8	32	45	18	33000	46000
9	64	91	19	66000	93000
10	130	180			

* EV value → Foot-lambert (FL) conversion table

Decimal places EV	0	0.5	Decimal places EV	0	0.5
1	0.073	0.10	11	75	110
2	0.15	0.20	12	150	210
3	0.30	0.40	13	300	420
4	0.60	0.80	14	600	850
5	1.2	1.7	15	1200	1700
6	2.3	3.3	16	2400	3400
7	4.7	6.6	17	4800	7000
8	9.3	13	18	9000	14000
9	19	26	19	19000	27000
10	37	53			

Reference:

- L-758CINE can read cd/m² or FL directly when the custom setting function is used (refer to page 44).

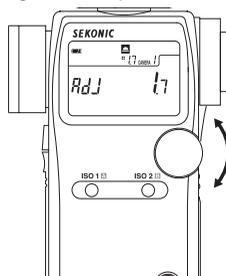
6. Advanced Functions

6. How to use the Exposure compensation function

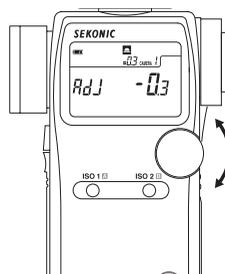
Exposure compensation can be made in precise 1/10 step increments in a +/- 9.9 EV range. Exposure compensation may be necessary when compensation for filters, bellows, extension tube, etc is required.

1. Set the measurement mode (incident light, reflected light) for the desired compensation. You can make calibration compensation independently for both incident, and reflected light. It is not possible to switch between measurement modes if the setting is not completed.

2. Making a plus compensation will increase the exposure. Hold the ISO1 button ① and the ISO 2 button ⑥ and turn the Jog wheel ⑤ counter clockwise. The  will appear in the upper section of the LCD screen. The compensation will change in +0.1 EV steps up to +9.9.



3. Making a minus compensation will decrease the exposure. Hold the ISO1 button and the ISO 2 button and turn the Jog wheel clockwise. The  will appear in the upper section of the LCD screen. The compensation will change in -0.1 EV steps up to -9.9.



NOTE:

- When making compensations, be sure that it satisfies your needs based on the results of your digital camera sensor or film be used.
- While incident and reflected light can be set independently, be aware that both ambient light and flash exposure are corrected uniformly.
- Compensation effects every mode of the meter.
If recalibration has been made for specific purpose do not forget to return to original zero settings.

Reference:

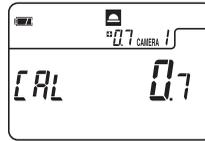
- When compensation is activate, a plus () or minus () sign as well as the amount of compensation is displayed continuously on the LCD. You can set custom settings so that a plus () or minus () sign as well as the amount of compensation doesn't appear on the LCD. (See page 44)
- You can also set custom setting so that making a plus compensation results in a decreased exposure (increasing the value of the aperture or shutter speed value) and making a minus compensation results in and increased exposure (decreasing the value of the aperture or shutter speed).

6. Advanced Functions

7. How to use Calibration compensation function

Calibration compensation can be made in precise 1/10 step increments in a +/- 1.0 EV. It provides the ability to match exposure measurements with meters to meters, correct exposure for special requirements, adjusts for film or digital cameras, etc.

1. Set the measurement mode (incident light, reflected light) for the desired compensation. You can make calibration compensation independently for both incident, and reflected light. It is not possible to switch between measurement modes if the setting is not completed.
2. To enter the calibration setting of the meter it must first be turned off. Press the power button on while holding down the ISO1 and ISO2 buttons simultaneously. You can release the power button, however please keep pressing both ISO1 and ISO2 buttons; the screen will display CAL 0.0 (for calibration).
3. The calibration setting can be changed by rotating the Jog wheel while pressing and holding down the ISO 1 and ISO 2 buttons simultaneously. A range of +/- 1.0 EV in 1/10 step increments is possible for calibration.



NOTE:

- When making calibration compensations, be sure that it satisfies your needs based on the results of digital camera sensor or film being used.
- While incident and reflected light can be set independently, be aware that both ambient light and flash exposure are corrected uniformly.
- Compensation effects every mode of the meter. If recalibration has been made for specific purpose, do not forget to return to original zero settings.

Reference:

- The calibration setting is not displayed on the main screen once it is set.
- You can also set custom setting so that making a plus compensation results in a decreased exposure (increasing the value of the aperture or shutter speed value) and making a minus compensation results in and increased exposure (decreasing the value of the aperture or shutter speed).

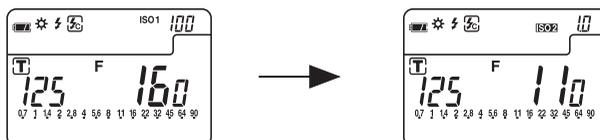
6. Advanced Functions

8. Filter compensation

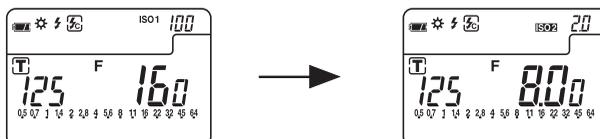
8-1 Filter compensation (1)

It is possible to compensate for filter factor within a range of ± 5.0 EV in 1/10 steps. The measurement corresponding to the set compensation and can be displayed while pressing ISO2 button ⑤. Highlight and shadow compensation values can also be enter for quick exposure metering.

1. Select setting number 1 and item number 1 in the custom setting mode (see page 44).
 2. Set the desired compensation by turning the Jog wheel ⑤ while pressing ISO2 button.
- In case of filter compensation
When attaching the filter with 1.0 step exposure factor to the camera, set "1.0" in ISO2 indicator by rotating Jog wheel while pressing ISO2 button.



- In case of highlight measurement compensation
When compensating plus 2 steps from highlight measurement, set "2.0" in ISO2 indicator by rotating Jog wheel while pressing ISO2 button.

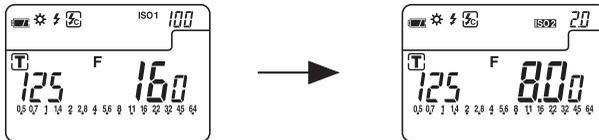


6. Advanced Functions

8-2 Filter factor number compensation (2) (L-758CINE only)

When using the L-758DR for Cine/Video exposures, in cine industry, it is possible to set 7 different frequently used types of filters.

1. Select setting number 1 and item number 2 in the custom setting mode (see page 44).
2. The symbol of the desired filter from among the 7 types can be selected by turning the Jog wheel ⑤ while pressing ISO2 button ⑥.
3. After setting filter compensation, the filter symbol and compensated F value or EV value are displayed while pressing ISO2 button.



Filters, LCD Display and Corrected Value

Filter Factor No.	85	ND0.3	ND0.6	ND0.9	85N3	85N6	85N9
LCD display	85-	n3-	n6-	n9-	A3-	A6-	A9-
Compensated value (EV)	-0.7	-1	-2	-3	-1.7	-2.7	-3.7

(Filter factor numbers are Kodak Wratten filter numbers.)

6. Advanced Functions

9. Custom setting function

The following Custom Settings provide a quick and easy setup of individual meter preferences. All preferences are stored on a memory chip and can not be deleted, they can only be changed back to default settings.

No.	Model	Custom setting name	Item number			
			0	1	2	3
1	758	ISO 2	Film sensitivity in 1/3 step	Filter compensation (1) in 1/10 step (+/-5EV)	-	-
	CINE		Film sensitivity in 1/3 step	Filter compensation (1) in 1/10 step (+/-5EV)	Filter Factor compensation (2) 7 filter factor numbers	-
2	758 & CINE	Exposure compensation display setting	Always Displayed	Not display		-
3 *1	758 & CINE	Increments of Shutter Speed (T) + Aperature (A)	Full step	1/3 step	1/2 step	-
4	758 & CINE	Exposure Priority settings	T + F	T only	F only	-
5	758 & CINE	EV mode	Not available	Available	-	-
6	758 & CINE	Multiple flash mode (cumulative)	Not available	Available	-	-
7	758 & CINE	Dynamic range/ Clipping point icons	Three dots	Within range	Outside range	No display
8	758 & CINE	Standard value if Mid. Tone memory is not set	First memorized value	Current Measured value	Last memorized value	-
9	758 & CINE	Average	Weighted mean average	Simple averaging	-	-
10	758 & CINE	Auto save on Power off	Available	Not available	-	-
11	758 & CINE	Auto power off time	20 min.	10 min.	5 min.	Not available
12	758 & CINE	Jog Wheel Function (clockwise direction)	Decreases value (T or F)	Increases value (T or F)		-
13	758 & CINE	Compensation +/- preference	Additive Compensation	Subtractive Compensation	-	-
14 *2	CINE	Illuminance or Luminance display	Selectable Individual or Combined	Combined T+F+(Lux /FC) Combined T+F+(FL/cd/m2)	Individual only	-
15	CINE	Illuminance measurement in incident mode	LUX, FC	LUX	FC	Not available
16	CINE	Luminance measurement in reflected mode	cd/m2, FL	cd/m2	FL	Not available
17 *3	758 & CINE	Switching Measuring/ Memory Buttons	Standard	Reverse	Auto-Switching	-

*1 1/10 stop fractions are displayed in full, 1/2 and 1/3 step increments.

*2 Individual: LUX, FC, cd/m² or FL

Compound: LUX+T+F, FC+T+F, cd/m²+T+F or FL+T+F (combination)

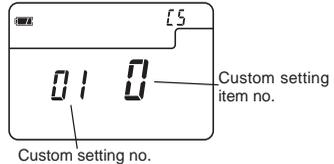
*3 Auto-Switching: In incident mode, Measuring/Memory buttons are standard (as they are), however, in reflected mode, automatically two buttons are switched.

Reference:

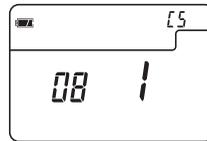
- Default settings are all set to zero (0).

6. Advanced Functions

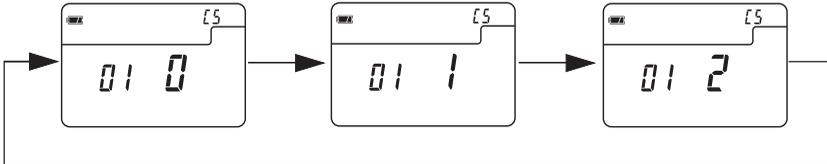
1. To enter the custom setting mode, the meter must first be turned off. Press Mode button ⑩ and turn the power on.
2. In the custom setting mode, 'CS' (custom setting) is displayed in the ISO display area, a setting number between 01-14 (L-758DR/758D) or 01-17 (L-758CINE) is displayed in the shutter speed display area and item number 0, 1, 2 or 3 is displayed in the aperture display area.



3. Turn the Jog wheel ⑤ and select the desired setting number and the custom setting name (see page 44).



4. The item number will change each time the Mode button is pressed.



5. After completing the custom setting, terminate the custom setting mode by turning the power off. This operation will also automatically turn off the power.

Reference :

- Press Memory clear button ⑳ while pressing the Mode button ⑩ the custom setting mode will reset all settings to default .
- Custom setting can be changed in Data Transfer Software when the L-758 light meter is connected with computer.