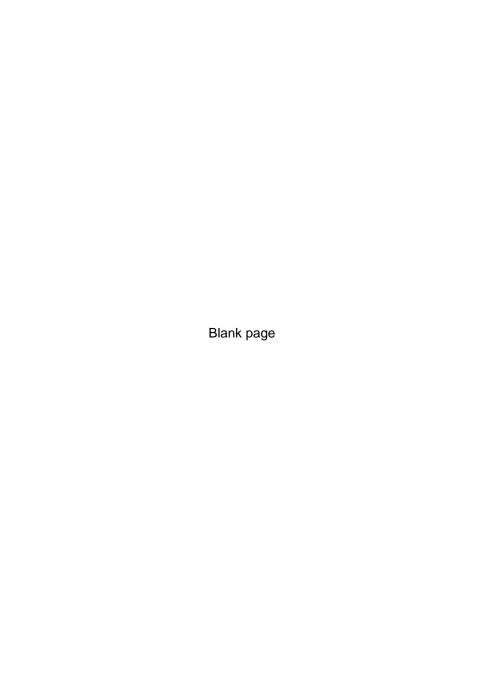
SEKONIC DUALMASTER L-558/L-558

Operating Manual



Congratulations on your purchase of a Sekonic DUALMASTER L-558/L-558CINE Exposure Meter

The DUALMASTER L-558/L-558CINE is the latest addition to the extensive line of Sekonic Exposure Meters, which have been market leaders for over 50 years.

The DUALMASTER was designed to offer more of what today's photographer needs, and less of what they don't. It offers flash and ambient exposure metering in both spot and incident modes. The DUALMASTER is the first multi-function meter to offer a 1-degree (nine element camera-quality) spot that measures reflected flash output as low as f/2.0. Along with its many unique features, the L-558 is also capable of wireless flash triggering with an optional radio module.

Utilizing rubber seals throughout the housing and controls of the meter, the DualMaster is water and moisture resistant. Although the meter can be used in rainy or wet conditions, it should not be used underwater.

The large LCD panel makes reading the data easy and convenient; the panel illuminates automatically in low light surroundings.

In order to retain the simple stylish look of the DUALMASTER, less frequently used functions and controls are confined to custom software settings.

The DUALMASTER L-558 and L-558CINE is loaded with many features and control options. Since each of these features has a detailed explanation, this instruction booklet is extensive. We recommend that you read the manual to familiarize yourself with the potential of the meter. Once you have established which features and functions are important to you, refer to these sections only.

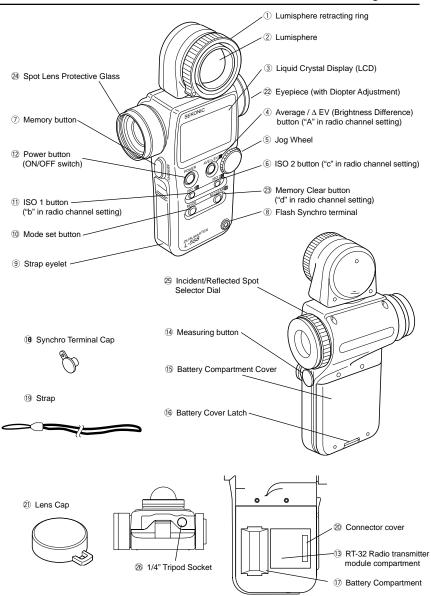
The DUALMASTER has undergone extensive quality control at every step of manufacture. Please read this instruction manual thoroughly, to be able to take advantage of its many features and to obtain the long service life that it was designed to offer you.

Thank you for investing in Sekonic.

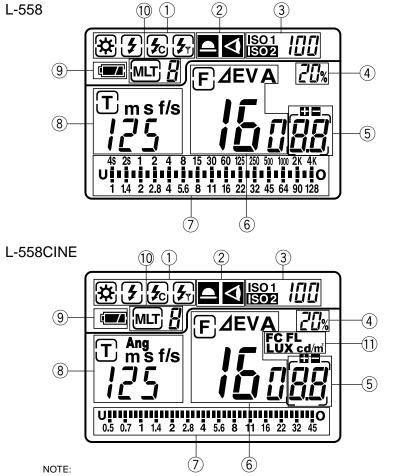
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1. Parts Designation



2. Explanation of the Liquid Crystal Display

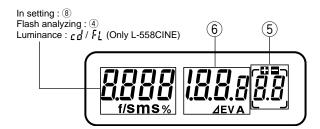


For explanation purposes, the display illustrated here shows all icons and readouts simultaneously. Actual display will never show as above.

Auto Electro-Luminescent Display (EL)

- In low light (EV 6 or less), a green backlight will automatically illuminate the entire LCD.
- The LCD will not be automatically illuminated during measuring, in Cordless Flash mode or Wireless flash radio triggering mode.
- The Electro-luminescent backlight will automatically turn off 20 seconds after last operation.

Display in viewfinder



- Measuring Mode Icons
 - Ambient (see page 12)
 - Auto-Reset Cordless Flash (see page 18)
 - Cord Flash (see page 17)
 - Wireless flash radio triggering mode (see page 34)
- 2 Incident / Reflected Spot Function Icons (see page 8)
 - Appears when in Incident mode
 - Appears when in Reflected Spot mode
- 3 ISO Display (see page 6)
 - ISO 1 Displays ISO film setting
 - Displays second ISO film setting when ISO 2 button is pressed
- 4 Flash Analyzing indicator (see page 31)
 - 0 to 100% in 10% increments (percentage of the flash in the total exposure)
- 5 +/- Compensation Indicator (see page 28)
 - Appears when +/- Compensation is set
- 6 Digital aperture value, Aperture Priority, EV Brightness Difference, Average function, EV display
 - (F) Appears when in Aperture Priority (f/stop) mode (see page 13)
 - △EV Appears when using brightness difference function (See Page 24)
 - A Appears when using Averaging function and brighness difference function (see page 24)
 - **EV** Appears when using EV mode (see page 14)
- 7 Analog Scale

Displays marks at apertures or shutter speed indicating full or half stop values (558),or full or 1/3 stop values (558 CINE) for measurement, also displays memory and average values

- U Appears when below display range
- Blinks when under exposed below measurement range
- O Appears when above display range
- Blinks when over exposed above measurement range

2. Explanation of the Liquid Crystal Display

8 Shutter priority indicator, shutter speed display for still photography or frames per second (f/s) for cinematography

(T) Appears when Shutter Priority (T) mode (see page 12)

m Appears when shutter speed is in minutes

s Appears when shutter speed is in full seconds

f/s Appears when cine speed is set in frames per second (see page 15)

Ang Appears when shutter angle is set to a value other than 180 degrees (558 CINE)(see

page 16)

Battery Power Indicator (see page 5)

10 Memory / Multiple Flash Indicator Display

Appears when Multi (cumulative) flash measurement mode and shows the cumulated number of measurements (see page 20)

M 9 Appears when reading is memorized and shows the number in memory (see page 23)

1 Illuminance mark / Luminance mark (558 CINE)

FC Appears when Foot-Candle is selected

LUX Appears when Lux is selected

FL Appears when Foot-Lambert is selected

cd/m² Appears when Cd/m² is selected

1. Attach the strap

Attach the Strap 19 by passing the small end loop through the eyelet 9 and passing the other end of strap through it.



♠ WARNING

Please place in a location where an infant cannot reach and accidentally get the strap wrapped around his or her neck. There is danger of strangulation.

Inserting the battery

- 1. Requires one 3.0 v CR123A lithium battery.
- 2. Open the Battery compartment cover latch 16, and remove the Battery compartment cover (15).
- 3. Insert the battery, observing the polarity with the +,- marks in the battery compartment 17.
- 4. Align the tabs of the Battery compartment cover with the notches in the back of the meter, and press down to close the Battery cover latch.



NOTE:

- To prevent loss of All-weather seal, be careful that dirt does not get stuck on the rubber seal and that the seal is not damaged.
- Remove battery if meter is not used for an extended period. Batteries can leak and damage the exposure meter. Dispose of used batteries properly.
- If the LCD does not light, check that the battery capacity is sufficient, and check that the battery positive and negative terminals are not reversed.
- The meter has a connector for a plug-in radio transmitter module. Do not remove the connector cover unless you are installing the radio module, failure to do so could cause the electronic circuit board to be exposed to damaging static electricity.

3. Checking battery capacity

When the Power button 12 is 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.

- We recommend you always have a spare battery on hand.
- · If the liquid crystal display extinguishes immediately after the display appears when power is first applied, that is an indication that the battery is dead. Please promptly replace the battery.
- A three second pause between power on and off is recommended to avoid damage to the meter.

3. Before Using

4. Replacing battery during measurement or when using the memory function

- Always turn the power OFF before replacing batteries. If batteries are removed with the power ON, measurements and settings in memory can no longer be recalled.
- If after replacing the battery, or during measurements, strange screens (displays that have not been set) appear in the LCD, or nothing happens, no matter what button is pushed, remove the battery and wait at least ten seconds and then replace the battery. This allows the software to automatically reset.



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

5. Auto Power Off function

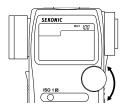
- 1. To conserve battery power, the meter will turn off about twenty minutes after last use.
- Whether the Auto Power Saving feature turns the power off or the Power button ② is pressed, the settings and measured values remain stored in memory. When the Power button is pressed again the last settings are displayed.

Reference:

• The power shuts off automatically after 1 minute when the power button is pressed and held.

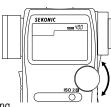
6. Setting main ISO film speed

- Hold down the ISO1 button ① and turn the Jog wheel
 to select ISO film speed for the film being used.
- You can also change the ISO film speed after taking measurements. The new value is automatically displayed.



7. Setting second ISO film speed (ISO 2)

- This feature is useful when using a second film with different ISO film speed, using Polaroid[™] proofing film, or for exposure correction (when using a filter, closeup photography, etc.).
- 2. Hold down the ISO 2 button (6) and turn the Jog wheel to select ISO film speed of the film being used.
- Once this is set, after taking a measurement, the measured value for the second film speed will be displayed when the ISO 2 button is pressed.
- You can also change the second ISO film speed after taking measurements. The new value is automatically displayed.



- The following settings are possible when using custom setting function P32.
 - 1. It is possible to set the Filter compensation within a range of ± 5 EV in 1/10 steps.
 - Filter factor number compensation enables you to set seven types of filters frequently used in the CINE industry. (Kodak Wratten Filters)(558 CINE only)

8. Mode and Setting Lock or Lock Off

Hold down the Mode set button
 [®] and ISO1 button
 [®] and "LOC" will appear to indicate that the Settings are locked. The last measurement is held until the lock is released, even if the Jog wheel
 [®] is accidentally moved.

However, if the measurement button $\ensuremath{\mathfrak{P}}$ is pressed, a new measurement is displayed with the same locked settings.



To release the Measurement lock, perform the same operation for the Measurement lock, Hold down the Mode set button and ISO1 button and "Off" will appear to indicate that the Measurement lock is released.

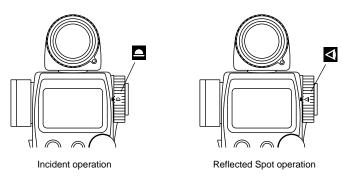


Reference:

 If power to the meter is turned off or auto off is activated when in the locked position, the dial lock function will continue operating when the meter is turned on again.

4. Basic Operation

1. Incident or reflected spot measuring



When incident operation is selected, the mark will blink for three seconds and when Reflected Spot operation is selected the mark will blink for three seconds on the LCD.



Incident operation

Reflected Spot operation

NOTE:

- · Do not rotate the Spot lens ring. There is danger of damage.

4. Basic Operation

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2. Setting measuring mode

Hold down the Mode set button [®] and turn the Jog wheel
 to select the desired mode. The mode switching sequence is shown in the chart below:

Shutter Speed Priority mode

Aperture Priority mode (Ambient light)

EV mode (Ambient light) See page 14

(Ambient light)

See page 12

See page 13

LUX, FC FL, Cd/m²

mode See page 18

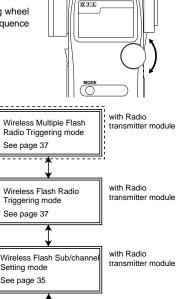
See page 26.27

Auto Reset Cordless Flash

Cordless Multiple Flash

(Cumulative) mode

See page 21



 Modes enclosed in dotted lines can only be selected with custom setting. (See page 32)

→ CINE only

Cord Multiple Flash (Cumulative) mode

See page 20

Cord Flash mode

See page 17

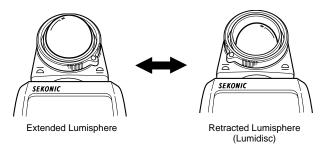
- Modes enclosed in lines can only be selected when Optional Radio Transmitter Module is installed.
- In addition to exposure reading, L-558CINE displays FC or LUX in incident light mode, and FL or Cd/m² in reflected light mode.

- · Ambient light is continuous light like natural light (sunlight), fluorescent lamps or tungsten lamps.
- Flash light is a brief, intense burst of light made by such as electronic flash units or flash bulbs.

4. Basic Operation

3. When set for incident light

 You can select extended or retracted lumisphere measuring positions by firmly rotating the lumisphere retracting ring (UP/DOWN) until it clicks into position.



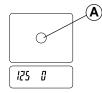
- 2. When the Lumisphere is extended. (3-D Light Measurement)
 This is used to measure people, buildings, and other three dimensional objects.
 Measurements are basically made by the method of measuring with the lumisphere aimed in the camera direction (more precisely, in the direction of the lens axis) at the position of the subject.
- 3. When the Lumisphere is retracted (flat diffuser function)
 This is used to measure manuscripts, paintings or other flat copy. It can also be used for measuring illumination levels (see page 26), or brightness difference (see page 24).

NOTE:

- If the device is used with the Lumisphere retracting ring in a middle position, distributed light quality will change, and suitable measurements cannot be made.
- · Do not push the Lumisphere down manually. Always use the Lumisphere retracting ring.
- If the lumisphere becomes soiled, wipe it with a soft, dry cloth. Organic solutions (paint thinner, benzene, etc.) must not be used under any circumstances.

4. When set for reflected light (spot metering)

- This method measures the brightness (luminance) of the light reflected from the subject. It is
 useful for distant objects such as landscapes, when you cannot go to the position of the subject,
 or for metering subjects that generate light (neon signs, etc.), highly reflective surfaces or
 translucent subjects (stained glass, etc.).
- 2. Take the measurement by aligning the circle inside the viewfinder with the subject area to be measured.
- The black circle (A) in the finder indicates the measurement range. The light receiving angle is 1 degree.



(Display in spot viewfinder)

< Diopter Adjustment >

Turn the eyepiece 2a and adjust the diopter so that the circle in the finder is clearly visible when you look into the finder.

< Step-Up Ring (Lens Hood)> (optional)

The step-up ring (30.5mm \rightarrow 40.5mm), available as an optional accessory, makes it possible to mount step-up rings and filters. This simplifies the setting of exposure without the troublesome correction calculation of polarizing filters, etc. (see page 37)

The step-up ring can also be used as a hood to protect the zoom lens from scratching, soiling, etc.

< 2x Angle Converter > (optional)

Mounting the 2x angle converter to the objective lens unit enables spot measurements at a light receiving angle of 2° .

Measurement

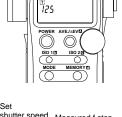
1. Measuring ambient light

In this measurement mode, we have the choice of shutter priority mode, aperture priority mode and EV mode. Hold down the Mode set button (1) and turn the Jog wheel (3) to select ambient measurement mode (22).

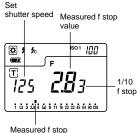
1-1 Shutter Speed Priority mode

- Hold down the Mode set button ① and turn the Jog wheel to select Shutter Speed Priority mode T.
- Turn the Jog wheel to set the desired shutter speed.
- Press the Measuring button ① to make a measurement. Release the Measuring button to complete the measurement. The measured value (aperture value) at that time will be displayed.

While pressing the Measuring button, the meter measures continuously until it is released.



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- It is possible to switch between full, 1/2 and 1/3 shutter speeds with custom setting (see page 32).
- You can set shutter speeds from 30 minutes to 1/8000 seconds. After 1/8000 the shutter speeds of 1/200 and 1/400 can be set.
- After measurement, the F stop value corresponding to the shutter speed is displayed when the shutter speed is changed.
- The L-558 displays the measured aperture value in either full or half stop increments on the analog scale, while L-558 CINE displays it in either full or 1/3 stop increments.
- "E.u" (Exposure under) or "E.o" (Exposure over) appears when the combination of shutter speed and aperture is outside the display range. Changing the shutter speed or aperture with the Jog wheel will allow you to find a combination that is possible.
- If the "E.u" or "E.o" readout blinks, this indicates that the light level is beyond the measurement range of the light meter. Adjust lighting in this case.

1-2 Aperture Priority mode

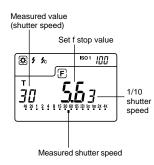
- Hold down the Mode set button ① and turn the Jog wheel to select aperture priority mode F.
- 2. Turn the Jog wheel (5) to set the desired f stop value.



 Press the Measuring button (4) to make a measurement.

Release the Measuring button to complete the measurement. The measured value (shutter speed) at the time will be displayed.

While pressing the Measuring button, the meter measures continuously until it is released.



- It is possible to switch between full, 1/2 or 1/3 F stop values with custom settings.
- You can set aperture from 0.5 to F161. Please note that in 1/3 stop increments F0.56 is displayed as a_b and F0.63 is displayed as a_b .
- The L-558 displays the measured aperture value in either full or half stop increments on the analog scale, while L-558 CINE displays it in either full or 1/3 stop increments.
- Readings outside the display range or beyond the measuring range are similar to the previous instruction (see page 12).
- After measurement, the shutter speed corresponding to the F stop is displayed when the F stop is changed.

1-3 EV mode

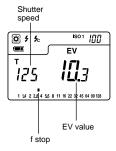
1. Hold down the Mode set button ① and turn the Jog wheel ⑤ to select **EV** value mode.



 Press the Measuring button 1 to make a measurement. Release the Measuring button to complete the measurement. The measured value (EV value) at that time will be displayed.

At the same time, the shutter speed will be displayed in the digital display area, and the corresponding f stop will be displayed on the analog scale.

While pressing the measuring button, the meter measures continuously until it is released.



Reference:

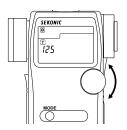
"E.u" (Exposure under) or "E.o" (Exposure over) on the T or F display area and "U" or "O" on
the analogscale appears when the combination of shutter speed and aperture are outside
the display range. Changing the shutter speed or aperture with the Jog wheel will allow you
to find a combination that is possible.

If the "E.u" or "E.o" readout and "U" or "O" on the analogscale blink, this indicates that the light level is beyond of the measurement range of the light meter. Adjust the lighting in this case.

1-4 Cinematography

Hold down the Mode set button ① and turn the Jog wheel
 to select ambient light shutter speed priority mode

T.



Turn the Jog wheel to select the Cine Speed for the camera that will be used.

Cine Speed are displayed after 1/8000, 1/200, 1/400 and the unit is in frames per second (f/s).

[L-558]

The following Cine Speeds will be displayed: 2, 3, 4, 6, 8, 12, 16, 18, 24, 25, 30, 32, 36, 40, 48, 50, 60, 64, 72, 96, 120, 128, 150, 200, 240, 256, 300 and 360 f/s.

[L-558CINE]

The following Cine Speeds will be displayed: 1, 2, 3, 4, 6, 8, 12, 16, 18, 24, 25, 30, 32, 36, 40, 48, 50, 60, 64, 72, 75, 90, 96, 100, 120, 125, 128, 150, 200, 240, 250, 256, 300, 360, 375, 500, 625, 750 and 1000 f/s.



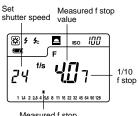
The shutter angle that these speeds are based on, is 180 degrees. For other angles make the following ISO film speed corrections (L-558 only).

Shutter angle	Amount of ISO film speed correction		
160 degrees	-1/3		
220 degrees	+1/3		

Measurement

- * Example of correction value
- -1/3: Decrease ISO film speed by 1/3 stop, example: ISO 80 -1/3 stop = ISO 64
- +1/3: Increase ISO film speed by 1/3 stop, example: ISO 80 + 1/3 stop = ISO 100
- Press the Measuring button ① to make a measurement. Release the Measuring button to complete the measurement. The measured value (f stop value) will be displayed.

While pressing the measuring button, the meter measures continuously until it is released.



Measured f stop on analog display

Reference:

- The L-558 displays the measured aperture value in either full or half stop increments on the analog scale, while L-558 CINE displays it in either full or 1/3 stop increments.
- Readings outside the display range or beyond the measuring range are similar to the previous instruction (see page 12).
 - Setting the shutter angle (558 CINE only).
 It is possible to set the shutter angle by turning the Jog wheel while pressing mode set button (1) and ISO2 button (6).

Note:

- Shutter angle: The angle can be set in the range of 5° 270° (in 5° steps) as well as 144° and 172° .
- " **Ang** " is displayed continuously on the LCD display if the shutter angle is set to any value other than 180°.
- Press the mode set button and ISO2 button to confirm the shutter angle since it is not displayed.

Reference:

 This setting is only valid when the shutter speed is set to display cine speed (f/s) in the cine mode.

2. Measuring flash light

This method of measurement can be done in the following modes; with cord, without cord, multiple flash with cord, multiple flash without cord and Wireless flash radio triggering mode (with optional radio transmitter module). When Measuring flash light, the shutter speed and F stop value (value combining ambient light and flash light: total amount of light) are displayed. The ambient light and flash light are each displayed as separate values together with the total amount of light on the analog scale. In addition, the ratio of flash light to the total amount of light is displayed at that time as a value in 10% steps. The flash reading is displayed as a blinking mark above the analog scale. (See page 32 for details)

2-1 Cord Flash mode

Connect the meter to the flash with a synchronization cord. Be sure to replace Synchro terminal cap ② after your measurement.

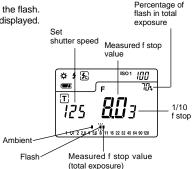
 Connect the flash synchro cord to the Synchro terminal ® on the exposure meter.



- 2. Hold down the Mode set button ① and turn the Jog wheel ⑤ to select cord flash mode ②.
- Turn the Jog wheel to set shutter speed. When setting shutter speed, first check the settings to confirm that they correspond to the settings on the camera.



Press the Measuring button (4) to trigger the flash.
 The measured value (f stop value) will be displayed.



Measurement



∕!\ WARNING

 Please place in a location where an infant cannot reach and accidentally swallow the synchro terminal cap. There is danger of strangulation.

CAUTION:

- There is 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, if you use cord synchronized flash.
- Under such conditions, it is recommended that you use the meter in the cordless flash mode or Wireless flash radio triggering mode, and keep the Synchro terminal cap in place.

NOTE:

- The electronic flash unit may trigger when you connect the Synchro cord or operate the POWER Switch.
- Triggering voltage is 2.0 to 400 volts. Below 2.0V, trigger flash with the cordless flash mode or wireless flash radio triggering mode, not with synchro cord.

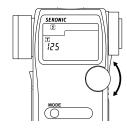
Reference:

- It is possible to switch the shutter speed between full, 1/2 and 1/3 stops by custom setting
- The shutter speed can be set from 30 minutes to 1/1000 of a second. After 1/1000 sec, the meter can be set at the following intermediate speeds: 1/75, 1/80,1/90, 1/100, 1/200, or 1/400.
- If the film speed is changed after the measurement is taken, the new converted measured value (f stop value) will be displayed.
- After measurement, the F stop value corresponding to the shutter speed is displayed when the shutter speed is changed.
- "E.u" (Exposure under) or "E.o" (Exposure over) appears when the combination of shutter speed and aperture are outside the display range. Change the shutter speed with the Jog wheel and take measurements again.
- If the "E.u" or "E.o" readout blinks, this indicates that the light level is beyond the measurement range of the light meter.

2-2 Auto-reset cordless flash mode

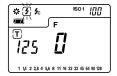
Measurements are made by the meter receiving the light from the flash. This measurement mode is used when the Synchro cord will not reach because of the distance between the flash and meter or when use of the Synchro cord is inconvenient.

- 1. Hold down the Mode set button 10 and turn the Jog wheel (5) to set Auto-reset Cordless Flash mode 3.
- 2. Turn the Jog wheel to set shutter speed. When setting shutter speed, first check the settings to confirm that they correspond to the settings available on the camera.

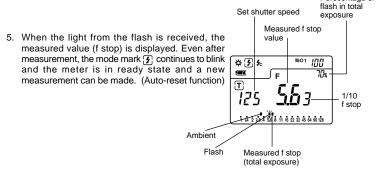


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 When the Measuring button is pressed, the mode mark is will blink and the meter is ready to measure. The ready to measure mode will continue for approximately 90 seconds.
 During this time, trigger the flash to make a measurement.



 If the 90 second period is exceeded and the blinking mark stops, press the Measuring button again to return to ready to measure.



NOTES:

- When firing a flash, if the flash brightness is low compared to the ambient light, the meter may fail to detect the light. In this case, make measurements using the cord flash mode.
- Rapid start fluorescent lamps and special lighting are sometimes mistaken for flash, and accidentally measured. In this case, make measurements using the cord flash mode.
- The meter's tripod socket permits mounting it to a tripod or light stand and placing it strategically when using cordless flash mode.

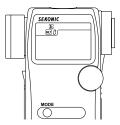
- After measurement, the F stop value corresponding to the shutter speed is displayed when the shutter speed is changed.
- Setting the shutter speed is similar to the previous instruction. (see page 17) of "Cord flash mode" of section 2-1.
- A new converted value is displayed when the film speed is changed after taking the measurement.
- Readings outside the display range or beyond the measuring range are similar to the previous instruction. (see page 18) of "Cord Flash mode" of section 2-1.

Measurement

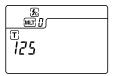
2-3 Cord multiple flash (cumulative) mode

These measurements are used when the light generated by the flash is inadequate for proper exposure. The repeated flash pops can be accumulated until the desired aperture is displayed. The cumulative number is infinite. Only one digit is displayed if the cumulative number is ten or more. Display returns 0 (0=10, 1=11, 2=12, etc.)

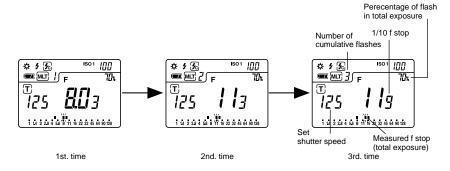
1. Hold down the Mode set button ① and turn the Jog wheel ⑤ to select cord multiple flash (cumulative) mode & .



- Turn the Jog wheel (5) to set shutter speed. When setting shutter speed, first check the settings to confirm that they correspond to the settings available on the camera.
- Connect the Flash synchro cord to the meter's synchro terminal (8).



4. Press the Measuring button (4) to trigger a flash. The measured f stop value at that time will be displayed. Each time this is repeated, the accumulated f stop value and the number of cumulative flashes is displayed.



5. To clear the cumulative value, press M. CLEAR button ② or switch to another mode by turning the Jog wheel while pressing the mode set button.

⚠ CAUTION:

 There is 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.
 Under such conditions, it is recommended that you use the meter in the cordless flash mode, or wireless flash radio triggering mode and keep the Synchro terminal cap in place.

NOTE:

- The flash unit may flash when you connect the synchro cord or operate the POWER switch.
- When firing a flash to take measurements, check the camera's synchronizing range and set the proper shutter speed.
- For flash units with low electric trigger voltage, the flash may not fire. In this case, make
 measurements in cordless flash mode or wireless flash radio triggering mode.

Reference:

- Setting the shutter speed is similar to the previous instruction (see page 17).
- Readings outside the display range or beyond the measuring range, are similar to the previous instruction (see page 18) of "Cord flash mode" of section 2-1.
- If the film speed is changed after the measurement is taken, the new converted measured value (f stop value) will be displayed.

2-4 Cordless multiple flash (cumulative) mode

These measurements are used when the light generated by the flash is inadequate for proper exposure. The repeated flash pops can be accumulated until the desired aperture is displayed. The cumulative number is infinite. Only one digit is displayed if the cumulative number is ten or more. Display returns 0 (0=10, 1=11, 2=12 etc.)

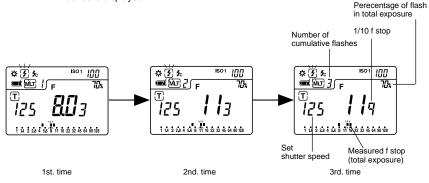
1. Hold down the Mode set button ① and turn the Jog wheel ⑤ to select flash measurement cordless multiple flash (cumulative) mode ② .

Turn the Jog wheel to set shutter speed. When setting shutter speed, first check the settings to confirm that they correspond to the settings available on the camera.



Measurement

When the light from the flash is received, the measured value (f stop) is displayed. Each time this is repeated, the accumulated value for the aperture and the number of cumulative flashes is displayed.



3. The ready to measure mode will be displayed for approximately 90 seconds. If the 90 second period is exceeded and the blinking mark stops, press the Measuring button (3) again. The measured value (f stop) of the previous time reverts to 0 and the meter is in ready to measure mode.

NOTF:

- When firing a flash, if the flash brightness is 9 EV lower than the ambient light, the
 meter may fail to detect the light. In this case, make measurements using the flash with
 cord flash mode.
- Rapid start fluorescent lamps and special lighting are sometimes mistaken for flash, and accidentally measured. In this case, make measurements using the flash with cord flash mode.

- Setting the shutter speed is similar to the previous instruction (see page 17).
- Readings outside the display range or beyond the measuring range are similar to the previous instruction. (See page 18)
- See page 35 for further details of Wireless flash radio triggering system.

1. Memory function

This meter can store up to nine measured values in memory for incident light and reflected light independently. This feature can be used in the following modes;

Ambient light: shutter speed priority, aperture priority (L-558 only) or EV mode.

Electronic Flash light: cord. cordless or wireless flash radio triggering mode.

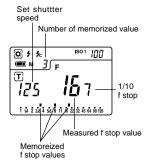
- Press the Measuring button (4) and take a measurement.
- 2. Press the Memory button ⑦ and store the measured value in memory.

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 ② or switch to another measurement mode.
- 4. Memory Recall

When the Jog wheel $\[\hat{\mathbb{S}} \]$ is rotated while both Memory button $\[\hat{\mathbb{O}} \]$ and the Mode set button $\[\hat{\mathbb{O}} \]$ are held down together, the measured value stored in the memory is displayed along with the memory number. When any previous stored value is recalled with the exception of the last stored value, the "**M**" and number will blink.



NOTE:

- The memory function cannot be used in "Multiple flash cumulative mode."
- · Measured values for ten times and over will be displayed but cannot be stored in memory.

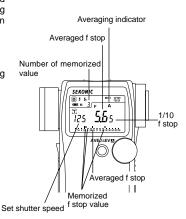
Advanced Functions

2. Averaging function

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

- Press the Measuring button (4) and take a measurement.
- 2. Press the Memory button ⑦ and store the measured value in memory.
- When the AVE./ Δ EV button ④ is pressed, an average value for up to nine measurements will be displayed on the LCD. The value in memory and the average values are displayed on the analog scale. An "A" appears in LCD to indicate this is an average.
- 4. The average mode can be canceled by pressing the AVE./ \(\text{ A V b utton.} \)





3. Brightness difference function

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

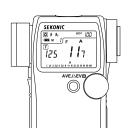
Take a measured value at a certain point as a standard value. The difference between the standard value and a new measured value is displayed as EV and the measurements on the analog scale.

Example of adjusting lights using brightness measurement with shutter speed priority mode (incident light).

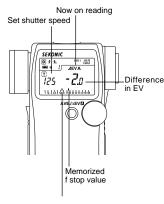
 Turn the Lumisphere retracting ring ① to lower it to the mark position.



- 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 () and store the value in memory.



4. Turn the main lighting off. Now, point the Lumisphere toward the secondary light source. While the Measuring button (1) is depressed and held down, the indicated difference between the main and auxiliary light sources is displayed in EV values. At the same time, the standard value and a new measured value are displayed on the analog scale.



f stop value being measured

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

5. Standard value can be cleared by pressing the Memory clear button 3 , or AVE./ \triangle EV button.

- This function can also be used for reflected light.

Advanced Functions

4. How to use an incident illuminance (LUX or FC) meter (L-558)

- Make sure that any compensation (see page 28) is canceled.
- 3. Set the meter to EV mode and ISO 100.
- Place meter parallel to the subject and take a measurement.
- 5. The measured EV can be converted to find the brightness level with the below conversion table.





Decimal places	0	0.5	Decimal places EV	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 \rightarrow Foot candle (FC) conversion table

Decimal places	0	0.5	Decimal places EV	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-558 CINE can read LUX or FC directly when the custom setting function is used (refer to page 32).

5. How to use a reflected luminance (cd/m² or FL) meter (L-558)

- 1. Make sure that any compensation (see page 28) is canceled.
- 2. Set the meter to EV mode and ISO 100.
- 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.
- The measured EV can be converted to find the brightness level with the below conversion table.

* EV value → cd/m² conversion table

Decimal places	0	0.5	Decimal places	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	0	0.5	Decimal places	0	0.5
1	0.073	0.13	11	75	110
2	0.15	0.26	12	150	210
3	0.30	0.53	13	300	420
4	0.60	1.1	14	600	850
5	1.2	2.1	15	1200	1700
6	2.3	4.2	16	2400	3400
7	1.7	8.4	17	4800	7000
8	9.3	17	18	9000	14000
9	19	34	19	19000	27000
10	37				

Reference:

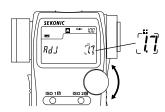
 L-558 CINE can read Cd/m² or FL directly when the custom setting function is used (refer to page 32).

Advanced Functions

6. How to use the Exposure compensation function

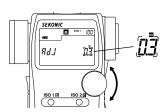
Exposure compensation can be made in precise 1/10 step increments in a +/- 9.9 EV range. Exposure compensation may be desired when requiring compensation for filters, bellows extension, etc.

 Making a plus compensation will result in underexposing when taking a photograph. Hold the ISO1 button ① and the ISO 2 button ⑥ and turn the Jog wheel ⑤ counter clockwise. The ➡ will appear on the upper right part of the LCD. The compensation will change in +0.1 EV steps up to +9.9.



 Making a minus compensation will result in overexposing when taking a photograph, Hold the ISO1 button and the ISO 2 button and turn the Jog wheel clockwise.

The ■ will appear on the upper right part of the LCD. The compensation will change in -0.1 EV steps up to -9.9.



NOTE:

- Make compensation after a sufficient number of tests in actual photographic conditions have been made to suit your needs.
- Compensation effects every mode of the meter.
 If recalibration has been made for specific purpose do not forget to return to original zero settings.

- When compensation is activate, a plus (II) or minus (III) sign as well as the amount of compensation is displayed continuously on the LCD display.
- You can set custom settings so that a plus (II) or minus (III) sign as well as the amount
 of compensation doesn't appear on the LCD. (See page 32)

7. How to use Calibration compensation function

Calibration compensation can be made in precise 1/10 step increments in a +/- 1.0 EV. It may be desired to match specific requirements, calibration to other meters, etc.

- 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.
- 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; 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 compensation, be sure that it satisfies your needs based on the results of adequate test film.
- While incident and reflected light can be set independently, be aware that both ambient light and flash exposure are corrected uniformly.

Reference:

• The calibration setting is not displayed on the main screen once it is set.

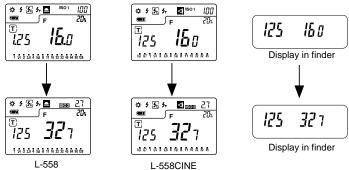
Advanced Functions

8. Filter compensation

Filter compensation (1)

It is possible to compensate for filter factory within a range of ± 5.0 EV in 1/10 steps. The measurement corresponding to the set compensation is displayed while pressing ISO2 button 6.

- 1. Select setting number 1 and item number 1 in the custom setting mode (refer to P32).
- 2. Set the desired compensation by turning the Jog wheel (5) while pressing ISO2 button.



Filter factor number compensation (2) (558 CINE only)

- 1. When using in cine industory, it is possible to set 7 different frequently used types of filters.
- 2. Select setting number 1 and item number 2 in the custom setting mode.
- 3. 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.
- After filter compensation, the filter symbol and cmpensated F value or EV value are displayed while pressing ISO2 button.



Filters, LCD Display and Corrected Value

Filter Factor No.	85	NDO.3	NDO.6	NDO.9	85N3	85N6	85N9
LCD display	85-	n3-	n6-	n9-	А3-	A6-	A9-
Compensated value (EV)	-0.7	-1	-2	-3	-1.7	-2.7	-3.7

(Filter factor numbers are Kodak Wratten filter numbers.)

9. Flash analyzing function

When measuring flash light, the shutter speed and F stop value (value combining ambient light and flash light: total amount of light) are displayed in the liquid crystal display and the ambient light and flash light are each displayed as separate values together with the total amount of light on the analog scale. In addition, the ratio of flash light to the total amount of light is displayed at that time as a value in 10% steps. It is possible to use this value for adjustments, for example, when photographing with a flash in a room illuminated by tungsten light, to emphasize or weaken the tungsten (ambient) light element (enhancing the flash light of the photograph) to match the photographer's intentions.

< Example >

If, under certain conditions, the flash light component is 60% and the tungsten output component is 40%, the display will be as indicated at the right. Flash reading on the analog scale will blink.

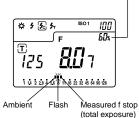
 To emphasize the tungsten (ambient) light (to imbue the atmosphere with orange-colored tones)

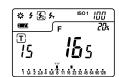
To increase the ratio of tungsten light, use the Jog wheel ⑤ to change the shutter speed to a slower setting.

It is apparent that the flash light component is now 20%. The analog scale also shows the tungsten output component to be about 2.5 stops higher than the flash light component.

As a result, images on the film are expressed with orange tones that give life to the effect of the tungsten light.

Perecentage of flash in total exposure

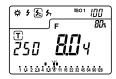




To reduce the effect of tungsten light (to realize a more natural atmosphere)

To decrease the ratio of tungsten light, use the Jog wheel to change the shutter speed to a faster setting. It is apparent that the flash light component is now 80%. The analog scale also shows the flash light component to be about 1.5 stops higher than the ambient light component.

As a result, the images on the film are expressed in natural color tones.



- Slower shutter speeds allow more available light to reach the film, and faster shutter speeds allow less available light to reach the film.
- The settings above are made by adjusting the tungsten (ambient) light by the shutter speed. It is also possible to modify the ratio by adjusting the flash light (when changing the distance between the flash and the subject or when changing the amount of light of the flash). When using this method, re-measure each time the flash light is adjusted.

6. Advanced Functions

10. Custom setting function

It is possible to set the required functions in advance.

CUSTOM SETTING LIST

No.	Model	Lighting	Custom Setting name		Item			
INO.	iviodei	Lighting	Custom Setting name	0	1	2	3	
1	558	Ambient & Flash	ISO 2 setting	Film Sensitivity 1/3 step	Filter compensation (1) 0.1EV step (±5EV)	_	_	
	CINE			Film Sensitivity 1/3 step	Filter compensation (1) 0.1EV step (±5EV)	Filter compensation (2) 7 Filter factor numbers	_	
2	558&CINE	Ambient & Flash	Exposure Compensation Display setting	Always display	Not display	_	_	
3 *1	558&CINE	Ambient & Flash	Increments of reading	full stop	1/3 stop	1/2 stop	_	
4	558&CINE	Ambient	Aperture (F) priority mode	Available	Not Available	_	_	
5	558&CINE	Ambient	EV mode	Available	Not Available	_	_	
6	558&CINE	Flash	Multiple flash mode (cumulative)	Available	Not Available	_	_	
7 *2	CINE	Ambient	Illuminance or Luminance (CINE only) display	Compound + Individual	Compound	Individual	_	
8	CINE	Ambient	Illuminance measurement in Incident mode	Not Available	LUX	FC	LUX, FC	
9	CINE	Ambient	Luminance measurement in Reflected mode	Not Available	cd/m²	FL	cd/m², FL	

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

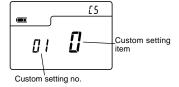
Compound: LUX+T+F, FC+T+F, cd/m²+T+F or FL+T+F (combination)

- L-558 Default settings are all set to zero (0).
 - L-558 (CINE) Default settings are all set to zero (0) except for item numbers 8 and 9 which are set to setting three (3).

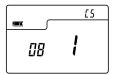
^{*2} Individual: LUX, FC, cd/m2 or FL

6. Advanced Functions

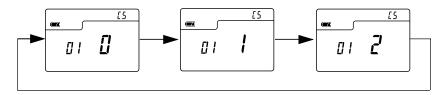
- To enter the custom setting mode, the meter must first be turned off. Press Mode set button @ and turn the power on.
- In the custom setting mode, 'CS' (custom setting) is displayed in the ISO display area, a setting number between 01-06 (558) or 01-09 (558 CINE) is displayed in the shutter speed display 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.



4. The item number will change each time the Mode set button 10 is pressed.



- 5. Pressing the Memory clear button 23 in the custom setting mode will reset all settings to default.
- After completing the custom setting, terminate the custom setting mode by turning the power off. This operation will also automatically turn off the power.

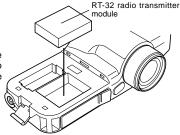
Advanced Functions

11. Wireless Flash radio triggering

With the radio transmitter module plugged into the meters radio socket and a receiver (RR-4 or RR-32 sold separately, or PocketWizard® products; Classic, Plus, Max or MultiMax receivers) connected to one or more electronic flash units, the meter provides a convenient system that enables one person working alone to measure flash output without the need of a sync cord. Pressing the Measuring button simultaneously triggers the flash and measures the flash light.

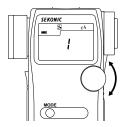
The L-558/558 CINE has 32 triggering channels when the radio triggering module (RT-32) is plugged into the radio socket. Channels 1-16 provide single triggering, while channels 17-32 offer selective quad-triggering capability. Selecting one of channels (17-32) provides control of up to four additional sub-channels (A, B, C and D). Selecting or deselecting of zone lighting is possible with sub-channels. In order to trigger flash units set for sub-channels, the electronic flash unit must be connected to the RR-32 receiver or PlcketWizard MAX or MultiMax. With the RR-4 receiver or PocketWizard Classic or Plus triggering channels 1-4 can be selected.

- < Example with optional 32 channels receiver >
 - Open battery compartment cover 15, remove connector cover 20 and set the RT-32 radio transmitter module (optional) by aligning the connector with the pins.

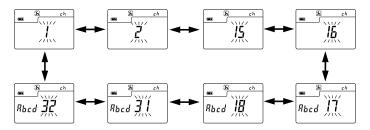


♠ CAUTION

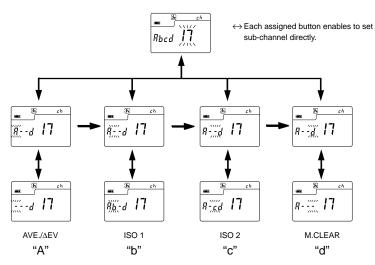
- To prevent damage due to static electricity, release static electricity stored in your body by touching a metal object nearby (door knob, aluminum window frame, etc.) before touching the radio transmitter module.
- Switch to the Wireless flash radio triggering setting mode by using Jog wheel 5 while pressing mode set button 10 3.



- The set channel number will blink at this time. Turn the Jog wheel to set the channel setting.
- 4. In the Setting mode, "ch" appears on the ISO display area. At the same time, channel numbers (1 to 16 and 17 to 32) appear on the F display area. When the channel number is 17 to 32, subchannel (A, b, c and d) settings are displayed on the T indicator. In the absence of settings, "-" appears in the figures.



5. In sub-channel settings, after the channel is set to 17 to 32, the assigned buttons below are pressed. Pressing each of the buttons activates or deactivates the sub-channels (A, b, c or d). When a sub-channel is activated, the corresponding sub-channel letter appears on the display. If a sub-channel is deactivated, a "-" is displayed in place of the letters.



↑ CAUTION

 When using quad channels 17-32, it is not possible to terminate this mode unless a subchannel has been set (A, b, c or d is displayed).

6. Advanced Functions

- 6. Upon setting the channel and sub-channels, press Measuring button (4) to set radio triggering mode automatically, or the Wireless flash radio triggering mode or Wireless multiple flash radio triggering mode is selected using the Jog wheel while the Mode set button is pressed. For other settings of the measurement, see page 17.
- Confirm that the meter and the radio receiver are set to the same channel number. The flash unit will fire when the measurement button of the meter is pressed and measurements can be made at the same time.

Reference:

- Refer to the receiver instruction manual for the receiver operating method.
- Maximum controllable distance of the radio flash trigger system differs depending on the placement of the device, direction and other factors.
 - 1. Confirm the direct visible range between the transmitter and receiver.
 - 2. Place the meter and receiver away from large metal objects, concrete, objects with large moisture content (both people and trees fall into the category) and so forth.
 - Secure the radio receiver in place by using Velcro tape or mounting 1/4-20 thread.
 Be sure that the entire length of the receiver antenna is higher than the flash pack at this time. Avoid contact between the receiver antenna and metal objects at all times.
 - Depending on the location, there may be cases when the receiver is incapable of receiving any radio signals whatsoever.
 - There are various possible reasons for this such as radio signals reflected from nearby objects. This can generally be resolved by shifting the device slightly in one direction or another.
 - In addition, confirm that the device is not placed behind objects that readily absorb or deflect radio signals such concrete, metal, low hills, etc.

NOTE:

 The radio flash system may be used only in countries where a permit for the control frequency has been issued by the government office in charge.

Synchro cord (Sold separately)

 This is a five-meter long cord with three plugs. An exposure meter, a camera, and a flash can all be connected at the same time. This is convenient when measurements are made, because it is not necessary to plug and unplug the synchro cord.



18% Gray Card (Sold separately)

18% gray card with cover (110mm x 102mm, 4 1/4" x 3 1/2"), folds to 2 3/4" x 4 3/4", and fits in a shirt pocket.



It provides accurate exposures regardless of reflected ratio of the subject and surroundings.

Lens Hood/Step-Up Ring (30.5mm → 40.5mm) (Sold separately)

 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.



2x Angle Converter (optional) (Sold separately)

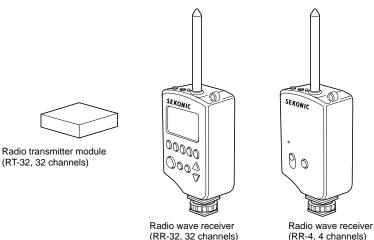
 Mounting the 2x angle converter to the objective lens unit enables zoom measurements at a light receiving angle of 2°.



7. Accessories

Wireless flash radio triggering system (Sold separately)

Combining radio transmitter module (RT-32) with radio receiver (RR-32 or RR-4) enables
measurements by triggering the flash from the exposure meter.



Reference:

 RT-32 transmitter module, RR-4 and RR-32 receivers are compatible with Pocket Wizard® products from LPA Design. • Type : Digital exposure meter for ambient and flash light

Light receiving method : Incident light and reflected light

· Light Receptors

Incident light : Convertible to flat diffuser (Lumisphere in down position)

Reflected light : 1° spot with display in finder Metering distance 1m $\sim \infty$

· Light receptor element : 2-Silicon photo diodes (incident and reflected)

· Metering modes

Ambient light : Aperture priority metering

Shutter priority metering

EV metering

Simple illumination measurement (lux, foot-candle)(558 Cine only) Simple brightness measurement (foot-lambert, cd/m²)(558 Cine only)

Flash : With synchro cord (cumulative, non-cumulative)

Without synchro cord (cumulative, non-cumulative)

Measurement using the optional wireless flash radio triggering sysytem

(cumulative, non-cumulative)

Measuring Range (ISO 100)

Ambient light

Incident light : EV-2 to EV 22.9

Reflected light : EV 1 to EV 24.4 (with 1° spot viewfinder)

Flash

Incident light : f0.5 to f161.2 (approx. f175)

Reflected light : f2.0 to f161.2 (approx. f175) (with 1° spot viewfinder)

Illumination (558 Cine only): 0.63 - 190,000 lux (2 significant digits)

0.12 - 180,000 foot-candle (2 significant digits)
Brightness (558 Cine only): 0.25 - 190,000 cd/m² (2 significant digits)

0.07 - 190,000 foot-lambert (2 significant digits)

· Repeat Accuracy : +/- 0.1 EV or less

· Calibration Constant

Incident light metering : Lumisphere C = 340 Flat diffuser C = 250

Reflected light metering : K = 12.5

Display Range

Film speed : ISO 3 to 8000 (in 1/3 steps)

Shutter Speeds

Ambient light : 30 minutes to 1/8000 seconds(in 1, 1/2 or 1/3 stop)also 1/200, 1/400

Cine speeds- 2, 3, 4, 6, 8, 12, 16, 18, 24, 25, 30, 32, 36, 40, 48, 50, 60, 64, 72, 96, 120, 128, 150, 200, 240, 256, 300, 360 frames per

second (at a 180 degree shutter angle)

(558 Cine addition) 1, 75, 90, 100, 125, 250, 375, 500, 625, 750, 1000

Flash : 30 minutes to 1/1000 second (in 1, 1/2 or 1/3 stop), also 1/75, 1/80, 1/

90, 1/100, 1/200, 1/400

Aperture : f/0.5 to f/161.2 (in 1, 1/2 or 1/3 stop)

Technical Data

EV : EV -9.9 to EV 46.6 (in 1/10 stop)

Analog scale : (558) F1.0 - F128 (in 1/2 stop),

T4.0 seconds -1/4000 seconds (in 1/2 stop)

(558 CINE) F0.5 - F45 (in 1/3 stop)

Shutter angle (558 Cine only)

: 5° ~ 270° (in 5°stop), others: 144°, 172°

Filter compensation : +/- 5.0 EV (in 1/10 stop)

Filter factor numbers (558 Cine only)

: 85-, n3-, n6-, n9-, A3-, A6-, A9-

· Other features

All-weather feature : JIS standard water resistance class 4, splash-proof type

Memory function : 9 readings

Memory clear • recall function

Multiple Flash function : Up to ∞ flash readings (only one digit is displyed when the cumulated

number is ten or more.)

Average function : up to 9 readings can be averaged.

Brightness Difference function: +/- 9.9 EV (in 1/10 stop)
Flash analyzing function : 0 to 100% in 10% increments

Exposure Out of Range : Eu (underexposure) or Eo (overexposure) indication

Exposure compensation : +/- 9.9 EV (in 1/10 stop)
Calibration compensation : +/- 1.0 EV (in 1/10 stop)
Battery Power Indicator display: with 3 level status icon

Auto Power Off : approx. 20 minutes after last use

Auto illumination : EV 6 and under

Custom setting function

1/4" Tripod socket : For placing meter in subject area for cordless flash measuring.

Second ISO film speed setting: ISO 3 to 8000 (in 1/3 stop)

Diopter adjustment : -2.5 to 1.0d

· Battery used : one of CR123A battery (lithium dry cell); 60 hours

- Operating temperature range : -10 ~ 50° C

Storage temperature range : -20 ~ 60°C

• Dimensions : $90 \text{ w} \times 170 \text{ h} \times 48 \text{ d mm}$

· Weight : 268 g (with battery)

· Standard accessories supplied: Soft case, strap, lens cap, synchro terminal cap, CR123A lithium

battery × 1, CS sticker

Radio triggering range : approx. 30 meters (approx. 100 feet)

· Radio wave frequency

FCC & IC : CH1 ~ 16 344.0MHz

CH17 ~ 32 346.5 ~ 354.0MHz : CH1 ~ 16 433.62MHz

CH17 ~ 32 434 22MHz

Features and specifications are subject to change without notice.

CF



- Please keep in a location where an infant cannot reach and accidentally get the strap wrapped around his neck. There is danger of strangulation.
- Never place batteries in fire, short, disassemble, or heat them. The batteries might break down, and cause injury or pollute the environment.
- Please place in a location where an infant cannot reach and accidentally swallow the synchro terminal cap. There is danger of strangulation.

A CAUTION:

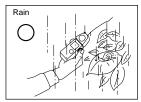
- Do not look directly at the sun through the viewfinder, because of potential eye injury.
- If you are operating the exposure meter in areas under wet conditions or high humidity, keep the sync post covered. If you are using flash in these conditions. Cordless Flash mode is recommended.

10. Care and Maintainance

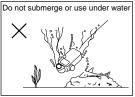
NOTE:

 Although this meter has an All-weather design for everyday use (JIS standard water resistance class 4), do not place it in water or use it underwater. This will cause it to malfunction.









- · To avoid damaging this meter, never drop it or subject it to shock.
- Avoid storing it in places with high temperatures or humidity.
- Avoid excessive temperature changes which could cause internal condensation, resulting in malfunction.

Maintenance Notes

- · If your meter is splashed with water, wipe immediately with a soft dry cloth.
- Avoid applying excessive force on the rubber seal of the battery compartment cover.
 Do not attempt to remove the rubber seal of the battery compartment cover.
- If the rubber seal's surface is damaged,water or moisture may enter and damage the meter. If this has happened, you must send your meter to the Sekonic Sevice Center in your country.
- Keep the surface of the Lumisphere and the front and rear surface of the spot lens free from dust, dirt, and scratches, which could affect accuracy.
- · Never use organic cleaners (like thinner or benzene). Clean with soft dry cloth.

FCC & IC compliance information:

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant

To Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communication.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determine by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- * Reorient or relocate the receiving antenna.
- * Increase the separation between the equipment and receiver.
- * Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC rules and also with RSS-210 of Industry & Science Canada. Operation is subject to the following two condition: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC ID Number: PFK-558-01 IC Number: 3916-558001

SEKONIC CORPORATION

7-24-14. Oizumi-Gakuen-cho, Nerima-ku, Tokyo 178-8686, Japan Phone:++81-3-3978-2335 Facsimile:++81-3-3978-5229

EU DECLARATION OF CONFORMITY

THE EU DIRECTIVE COVERED BY THIS DECLARATION:

Radio & Telecommunications Terminal Equipment Directive 1999/5/EC

PRODUCT COVERED BY THIS DECLARATION:

Name: DUALMASTER

Model: L-558 / L-558CINE

THE BASIS ON WHICH CONFORMITY IS BEING DECLARED:

The DUALMASTER L558 / L-558CINE complies with the essential requirements of the Radio & Telecommunications Terminal Equipment Directive 1999/5/EC on the basis of Technical Construction File assessed by the Notified Body:

NB No. 0560 Telefication B.V. Edisonstreet 12A 6902 PK Zevenaar Netherlands

Printed Name: Makoto Tomono

Signed: M. Jomono

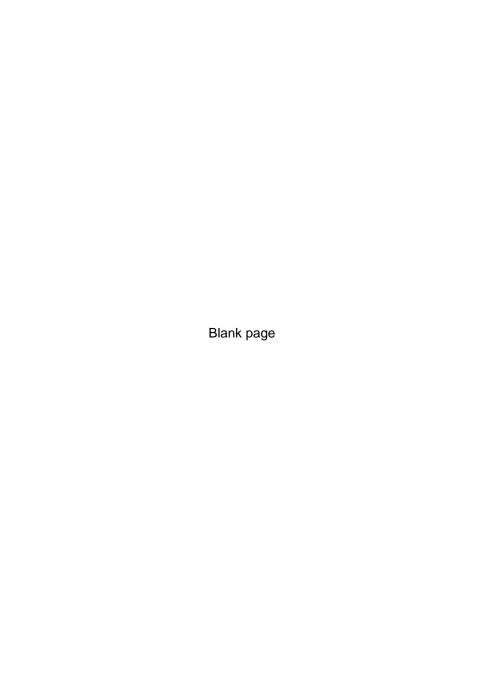
Title: President

Date: August 11, 2003

Note: The device makes use of a radio frequency and which is not harmonized throughout the EU.

Memo

Memo



SEKONIC CORPORATION

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