SEKONIC Light Meter

SPEEDMASTER
L-858D
L-858D-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.

Please read this operating manual thoroughly to gain a full understanding of the contents and ensure safe and correct use of this product.

The SPEEDMASTER L-858D is a photographic light meter with the following features;

- World's first[*1] HSS (High Speed Sync) flash measurement
- Flash duration measurement
- Multi-brand wireless triggering & control (with optional transmitter)

The multi-function SPEEDMASTER L-858D is the flagship of the Sekonic family of light meters. Offering reflected-spot and incident light measurement of ambient and flash light sources, the L-858D features a host of new functions and operations to make it the perfect tool for all light measurement needs.
The color touch-screen panel is the control center of the ergonomic, rubber-cushioned body. Weatherproofing seals enable using the L-858D in all shooting conditions. Increased sensitivity and wide measuring range provide the high level of accuracy demanded for today's digital imaging.

Using the Sekonic-developed Data Transfer Software[*2] enables mapping your camera's exposure profile and tuning the L-858D to your shooting style. Up to 10 Exposure Profiles[*3] can be stored in the meter and called up anytime you need them. Precision tuning of the L-858D enables instant check scene and subject brightness against dynamic range of your camera for the very best exposure decisions. The Data Transfer Software also allows customizing the L-858D to your operating preferences.

[*1] World's first as a hand-held light meter (As of September, 2016, Investigated by SEKONIC.)

[*2] Download the Data Transfer Software from www.sekonic.com, and install it on your computer.
URL: www.sekonic.com/support/downloads/dtssoftwareformacandwindows.aspx
To use this software, connect your computer to the L-858D using a USB cable (micro-B type, available commercially).

[*3] An exposure profile contains information that indicates each characteristic feature (exposure compensation amount between the camera and light meter, clipping point, and dynamic range) of the digital camera you are using. To create the exposure profile, it is necessary to do shooting in advance, and use the Data Transfer Software.

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NOTICE

- 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.)

■ Safety Precautions

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

⚠ WARNING	The WARNING symbol indicates the possibility of death or serious injury if the product is not used properly.
⚠ CAUTION	The CAUTION symbol indicates the possibility of minor to moderate personal injury or product damage if the product is not used properly.
NOTICE	The NOTICE symbol indicates cautions or restrictions when using the product. Please read all notes to avoid errors in operation.
NOTE	The reference symbol indicates additional information about the controls or related functions. Reading these is recommended.
➡	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.**
- **Infants or toddlers may accidentally swallow the lens cap, so please place it in a location out of their reach. There is a danger of suffocation.**
- **Do not look directly at the sun or an intense light source via the viewfinder. Doing so may damage your eyesight.**
- **Do not place batteries in open flames, attempt to short, disassemble or apply heat to them, use unspecified batteries, or recharge them (except rechargeable batteries). 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.**
- **Make sure the Synchro terminal cover ⑬ and USB connector cover ⑪ are firmly in place when not using the meter in Cord Flash Mode or it is not connected to a computer. If not sealed by the covers, the meter is no longer water-resistant and moisture could damage the circuitry of the meter.**
- **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.**
- **Gently tap the meter's LED panel when changing modes or making selections. Using pointed pens or pencils may scratch the LCD screen or damage the product.**
- **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

- A protective sheet is attached to the LCD. Peel it off before use.
- Although the LCD monitor is manufactured to very high standards, it is possible to observe a few dead pixels on the screen. This is normal and not a malfunction of the meter.
- Do not use the meter in Cord Flash Mode at altitudes above 2,000m (6,561 feet).
- Our company shall not be liable for any data loss caused by, but not limited to, malicious acts and control errors.
- 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 of 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°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°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.
- 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

- For used batteries, dispose of them according to the rules of your area, or bring them to a battery recycling shop near you.
- Insulate plus and minus terminals with tape or other insulation material.
- Do not disassemble the batteries.

■ Intended Usage

The meter is designed for:

- Measurement of artificial light sources or natural light for photo, video, or movie
- Display of latitude (dynamic range) from the shadow to the highlight of a digital camera
- Measurement of the flash high-speed synchro exposure or flash duration time for diversifying flash shooting
- Flash unit triggering and power control functions with the transmitter (sold separately)
- High-level measurement accuracy and a wide measurement range in all shooting situations from outdoor to indoor with all weather design

■ Features of the L-858D

[Basic functions and performance]

① Model with incident light and reflected light (spot photometry 1 degree) systems
② One-touch switching between extended lumisphere and retracted lumisphere (Light receiving part up-down mechanism)
③ Flash Analyzing Function which provides the percentage of flash in total exposure as well as ambient and flash components.
④ Exposure Profile Function (using the Data Transfer Software application software)
⑤ Simplified luminance measurement (cd/m^2, Foot-lambert) and simplified illuminance measurement (Lux, Foot-candle)

[New functions and performance]

① 2.7-inch liquid-crystal color touch panel
The operability is enhanced by assigning frequently used functions to Function Buttons at the bottom of the screen.
② Flash duration analysis (1/40 to 1/55,500 sec., t0.1 to t0.9, which can be changed in 0.1 steps)
③ Exposure measurement in HSS (High Speed Synchro) Mode
④ Improvement of lower light measurement performance (from -5 EV in incident light measuring, from -1 EV in reflected light measuring) (based on ISO100).
⑤ Flash units triggering and power control functions with multi-brands of the transmitter (sold separately)
⑥ Enhancement of video/cine functions such as frame rate setting (1 to 1,000 f/s), shutter angle setting (1 to 358 degrees), and filter compensation is possible. (+/-12 EV value, or select the desired option from the registered filter names.)

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
- 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.
- 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

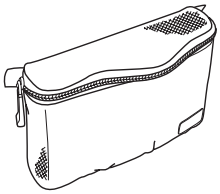
The following items are included with the meter in the package. Please be sure to check that all noted items are included.

* If any items are missing, please contact the distributor or the reseller you purchased the meter from.
* The USB cable (that has the A connector and Micro-B connector) is not included in the package. Please obtain this separately.
* Batteries (two AA) are not included in the package. Please obtain these separately.

Meter

Lens cap
(Attached to the meter)

Soft case

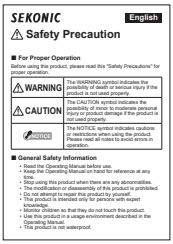


Anti-glare sheet for LCD screen

Strap

Startup Guide

Safety Precaution


SEKONIC English

⚠ Safety Precaution

■ For Proper Operation

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

⚠WARNING	The WARNING symbol indicates the possibility of serious bodily injury if the product is not used properly.
⚠CAUTION	The CAUTION symbol indicates the possibility of minor to moderate personal injury or product damage if the product is not used properly.
NOTICE	The NOTICE symbol indicates cautions or restrictions when using the product. Please read all notes to avoid errors in operation.

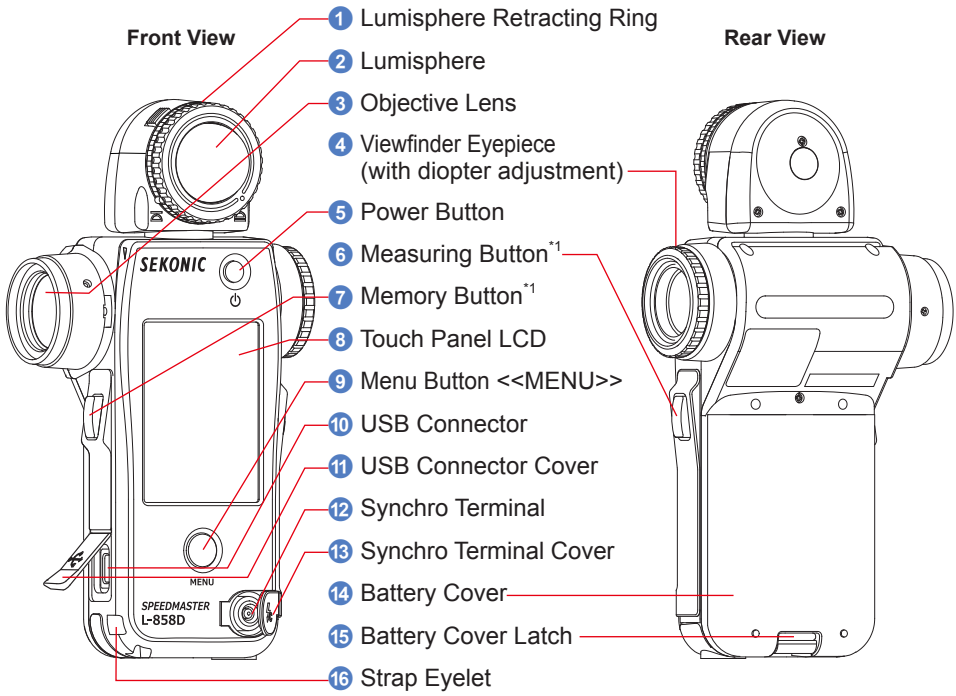
■ General Safety Information

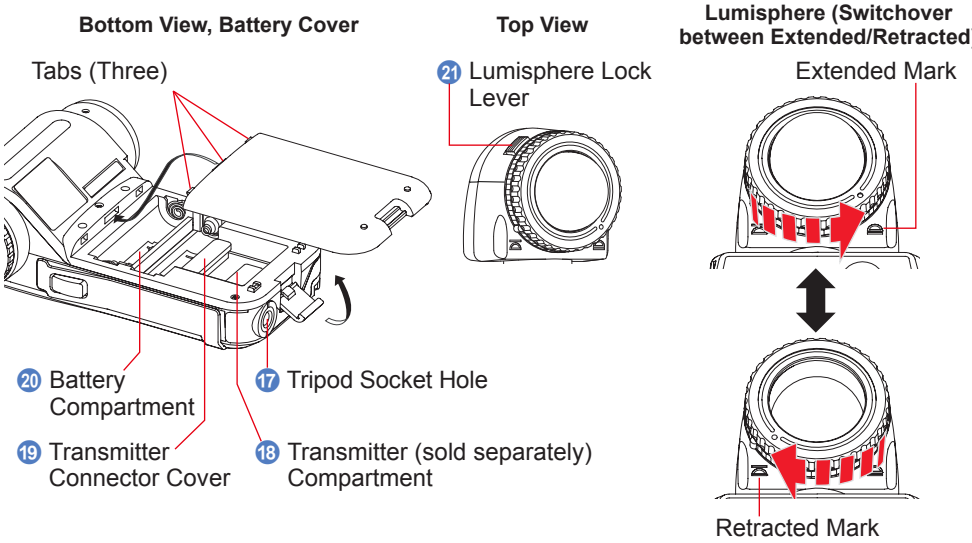
- Read the Operating Manual before use.
- Keep the Operating Manual on hand for reference at any time.
- Stop using this product when there are any abnormalities.
- The modification or disassembly of this product is prohibited.
- Do not attempt to repair this product by yourself.
- This product is intended only for persons with expert knowledge.
- Monitor children so that they do not touch this product.
- Use this product in a usage environment described in the Operating Manual.
- This product is not waterproof.

Table of Contents

1. Names and Functions of Parts

1-1 Names of Parts





1-2 Functions of Parts

The following table lists the functions of each part.

No.	Part Name	Function
1	**Lumisphere Retracting Ring**	Turn this to switch between the extended lumisphere and retracted lumisphere. (➡ P35)
2	**Lumisphere**	Position the meter at subject with Lumisphere facing toward camera or light source during measurement. Can be freely rotated through 270° to receive light. (➡ P32)
3	**Objective Lens**	For viewing reflected-light spot measurements of subjects or scenes. Attach the Step-up ring (sold separately) to mount a filter. (➡ P196)
4	**Viewfinder Eyepiece (with diopter adjustment)**	Turn the viewfinder eyepiece to adjust the diopter scale. (➡ P40)
5	**Power Button**	Press to turn ON/OFF. (➡ P5)
6	**Measuring Button**[*1]	Press for measurement.
7	**Memory Button**[*1]	Press after measuring to record the measured value. Press in Multi (Cumulative) Flash Mode to clear the number of cumulative flashes.
8	**Touch Panel LCD**	Displays the setting screens and measurement screens. The built-in touch panel function enables setting, selection or operation by touching the displayed screens. (➡ P9)
9	**Menu Button**	Press to enter the Menu list from any of the screens. Press again to return to the previous screen. (➡ P29)
10	**USB Connector**	The USB connector for connecting to the computer with the installed Data Transfer Software. (Terminal shape: Micro B type)
11	**USB Connector Cover**	Protects USB terminal when not in use.
12	**Synchro Terminal**	Accepts an optional synchro cord when using meter in Cord Flash Mode.
13	**Synchro Terminal Cover**	Protects synchro terminal when not in use.
14	**Battery Cover**	Secures the batteries.
15	**Battery Cover Latch**	Pull out and rotate down to open battery cover.
16	**Strap Eyelet**	Attach the accessory strap here. (➡ P3)
17	**Tripod Socket Hole**	Used to attach the meter to a tripod. (1/4 inch, 20 threads)
18	**Transmitter (sold separately) Compartment**	Install radio transmitter (sold separately) for the radio triggering of flash units. (➡ P90)
19	**Transmitter Connector Cover**	Protect the transmitter connector.[*2]
20	**Battery Compartment**	Hold 2x AA batteries. Insert as indicated in compartment. (➡ P4)
21	**Lumisphere Lock Lever**	Use this lever to replace the lumisphere (when it is damaged or contaminated).

[*1] The function of the Measuring Button 6 and that of the Memory Button 7 can be interchanged using Custom Setting. (➡ P41, P168)

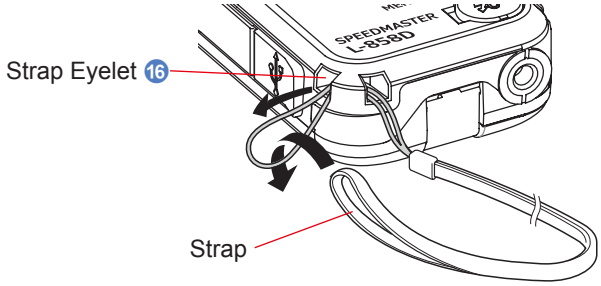
[*2] Be sure to reattach the Transmitter Connector Cover 19 if the Transmitter is removed.

2. Before Use

2-1 Attaching the Strap

1. **Pass the strap (included) through the outer hole of the Strap Eyelet 16.**

2. **Pass the opposite end of the strap through the loop at the end of the strap.**



⚠ WARNING

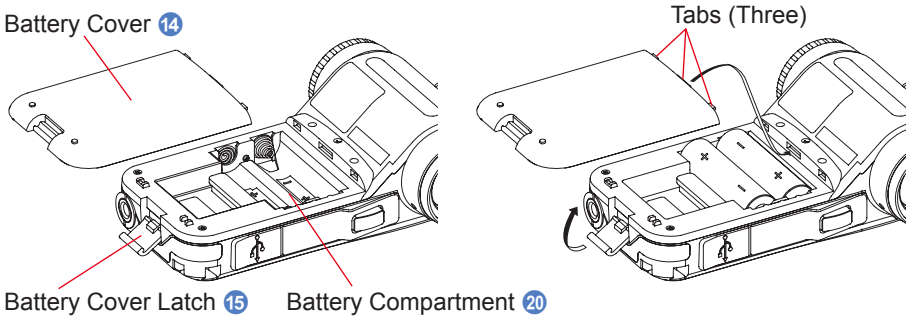
Infants or toddlers may accidentally wrap the strap around their neck, so please place it in a location out of their reach. There is a danger of suffocation.

⚠ CAUTION

- **Infants or toddlers may accidentally grasp and swing the strap, so please place it in a location out of their reach. Otherwise, the meter may be damaged due to an impact shock.**
- **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.

2-2 Inserting the Batteries

1. **Prepare two AA batteries.**
2. **Unlock the Battery Cover Latch ⑮, and remove the Battery Cover ⑭.**
3. **Insert the batteries according to the "+" and "–" symbols in the Battery Compartment ⑳.**
4. **Align the tabs (three locations) of the Battery Cover ⑭ to the holes of the meter. While pressing down the Battery Cover ⑭, use the Battery Cover Latch ⑮ to lock the Battery Cover ⑭.**



⚠ WARNING

Do not place batteries in open flames, attempt to short, disassemble, apply heat to, or recharge them (except rechargeable batteries). They may burst and cause fires, serious injury, or damage to the environment.

⚠ CAUTION

- **Use the manganese or alkaline batteries.**
- **Do not use batteries with any other rating than the one specified. Also, do not mix old and new batteries.**
- **To prevent corrosion of battery contact pieces or deterioration of the waterproof feature, exercise care to ensure that the rubber packing of the Battery Cover ⑭ is not contaminated with dust or sand.**
- **Please insert the batteries minus "-" side first.**
  When removing the batteries, 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.**

2-3 Power ON/OFF

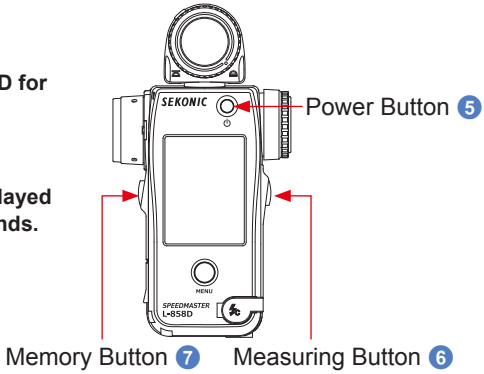
Power ON

1. Press the Power Button 5.

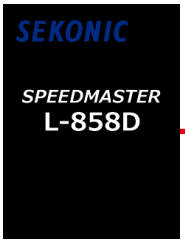
The meter turns on.

The Startup Screen appears on the LCD for one second.

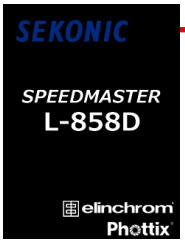
Then operating assignment for the Measuring Button 6 (MEASURE) and Memory Button 7 (MEMORY) are displayed on the Measuring Screen for two seconds.

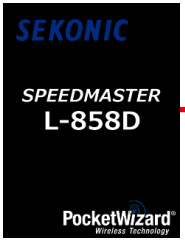


Startup Screen

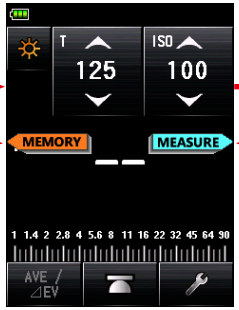


Startup Screen that appears if a transmitter (sold separately) is installed

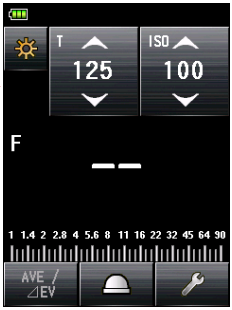




Measuring Screen



Measuring Screen



NOTICE

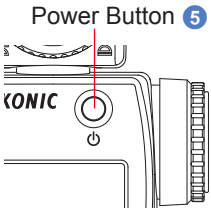
- **The blue lettered "SEKONIC" Logo Screen is displayed after battery replacement and 24 hours after power OFF.**
- **The L-858D is executing a memory check while the blue progress bar is moving on the Logo Screen, so please do not turn OFF the power, as doing so may lead to damage.**

- **If the specifications of the transmitter (sold separately) are not compatible, the "Radio transmitter installed cannot be used in this meter." message is displayed. Check that the specifications of the transmitter are compatible with the meter before turning the power ON. See the manual for the transmitter (sold separately) for details.**

NOTE

- If the LCD screen shows no display, check if the batteries are installed properly (Pos/Neg positioning) and have enough capacity.
- The Startup display can be skipped by touching the screen when it appears.

Power OFF



1. Press the Power Button 5.

The meter will turn off and the display disappears.

The meter power turns off after the display disappears.

NOTICE

- **Please wait 3 seconds between repeated power on and power off sessions.**
- **If the power is turned off, graphs displayed during the Flash Duration Analysis Mode will be erased.**

NOTE

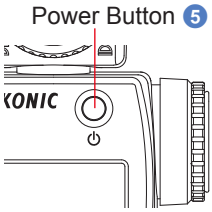
All settings that are made and measured values that are obtained during use are saved in the memory even after the meter has been powered off.
Saved data is re-displayed as soon as the meter is turned on.
When the batteries are removed, the stored settings and measured values are saved in the memory and will be displayed when batteries are installed and the meter is switched ON.

2-4 Auto Power Off Function

To save battery capacity, the meter will automatically turn off 5 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.
- The graph displayed during the Flash Duration Analysis Mode will be erased at Auto power off or when the Power Button 5 is used to turn the power off.
- Default Auto Power OFF is 5 minutes. Select longer time in Custom Setting. (➡ P182)
- If, while in transport, the Power Button 5 is inadvertently and continually pressed in, the meter will turn ON for about 1 minute and then automatically turn OFF to save battery power.



2-5 Checking the Battery Capacity

When the power is turned ON, the LCD screen will show the battery capacity indicator.

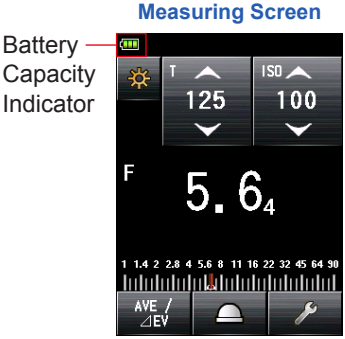
Sufficient battery life remaining.

Adequate battery life remaining.

Have a spare battery ready.

Replace the battery immediately.

Measuring Screen



NOTE

- When battery power is low and the meter is turned ON, the LCD screen will appear, then turn off immediately. This is an indication that the batteries have been depleted and they should be replaced immediately.
  It is recommended that spare batteries be kept on hand.
- When the meter is continuously used at room temperature, the battery should last 15 hours (based on Sekonic testing methods).

2-6 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.

3. Screen Operations

3-1 Basic Operations

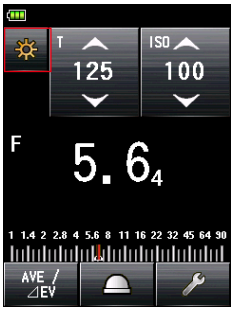
The screen, which is based on the touch panel system, allows you to select a target menu or item by touching the icon with your fingertip.

- The LCD backlight is lit when the meter is turned on.
- The screen dims during measuring or cordless flash standby to eliminate its influence on measured values, with the exception of the case when measuring is carried out by the Contrast Function.
- The brightness of the LCD backlight is set to "Bright" by factory default to enhance the visibility for outdoor use. To reduce power consumption, specify "Standard" or "Dark" in Custom Setting. (➡P183)
- By factory default, the screen dims if the touch panel is not operated for approximately 20 seconds. (time can be adjusted in Custom Functions. (➡P184))

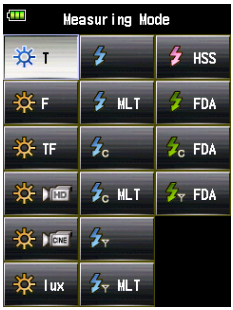
Touch operations

Touch each icon to change the display to a desired screen. (➡P43)

Measuring Screen



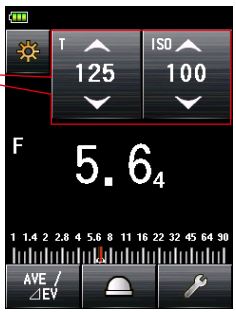
Measuring Mode Screen



* The examples above show the screens that are displayed when all Measuring Modes are enabled in Custom Setting.

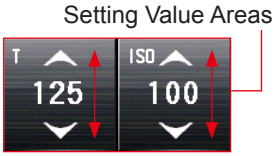
If you touch the arrow icon ( ), you can increase the setting value or change to an item above.
If you touch the arrow icon ( ), you can decrease the setting value or change to an item below. Continuing touch of Setting Icon will successively change the setting value.

Measuring Screen

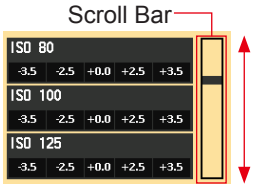


Slide operations

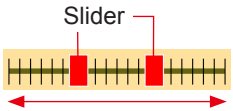
Slide a finger up or down on the setting value areas at any time to change setting values.



If a scroll bar is displayed on the screen, you can slide it to change the setting value.



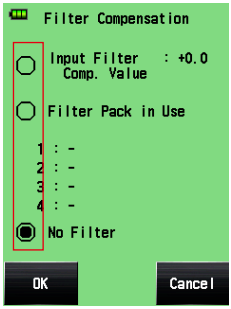
Touch and move the slider to change the setting value on the scale.



Radio button operations

Touching a Radio button selects the item to the right of it.
Only one selection can be made at one time.

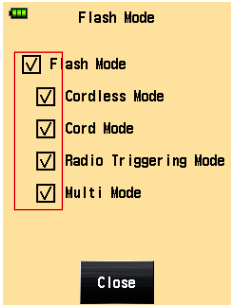
Set Filter Compensation Screen



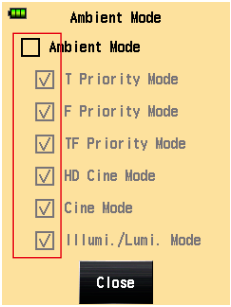
Check box operations

Check boxes are displayed when multiple selections are available.
Touch the boxes for the desired items to select them.

Flash Mode Screen

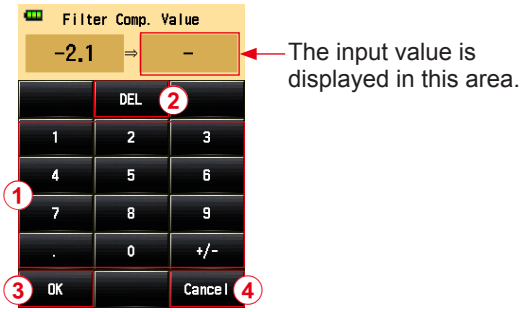


Ambient Mode Screen



Numeric Value Input Screen

Numeric Value Input Screen



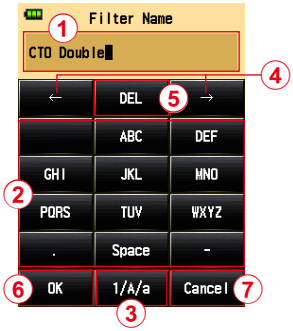
* The Filter Compensation Value Input Screen is used as an example.

How to input a numeric value (Numeric Value Input Screen)

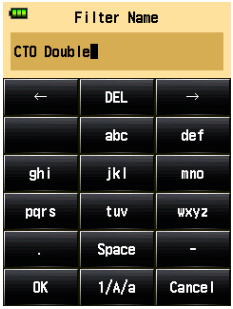
No.	Key	Description
①	**0-9, Decimal point, Sign (+/-)**	Inputs a numeric value. When a key is touched, the input value is displayed at the top of the screen.
②	**DEL**	Deletes the input value.
③	**OK**	Confirms the input value, and returns to the previous screen.
④	**Cancel**	Cancels the input value, and returns to the previous screen.

Character Input Screen

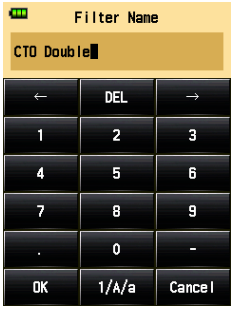
Upper Case Input Screen



Lower Case Input Screen



Numeric Value Input Screen



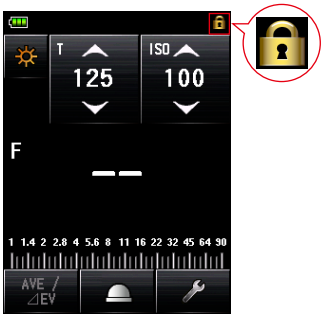
How to input characters and numbers (Alphabet Input Screen and Number Input Screen)

No.	Key	Description
①	■	The cursor indicates the location at which to input a value.
②	**ABC, abc, 0-9, Decimal point, Space, Hyphen**	When touched, the input value is displayed at the top of the screen. Repeated touching of the same button for alphabet (ABC/abc) will change the alphabet character in order.
③	**1/A/a**	Shifts between numbers/upper case letters/lower case letters.
④	← →	Moves input position.
⑤	**DEL**	Deletes the character at the cursored position.
⑥	**OK**	Confirms the input value, and returns to the previous screen.
⑦	**Cancel**	Cancels the input value, and returns to the previous screen.

3-2 Locking and Unlocking the Screen

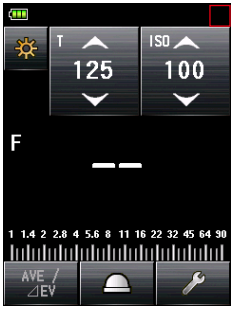
You can lock the screen to prevent misoperation.
When the screen is locked, touch operation is disabled.
However, the Power Button 5, Measuring Button 6, and Memory Button 7 are still operational.
The screen will stay locked even when power is turned OFF and ON.

Measuring Screen (Lock)



Measuring Screen (For screen operations in locked state)

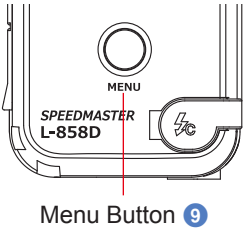
Measuring Screen (Unlock)



Lock

Press and hold down the Menu Button 9 on the Measuring Screen to lock the screen (the [Locked] Icon will be displayed at the top right of the LCD screen).

Buttons and icons on the LCD (touch panel) cannot be operated while the lock is ON. If you touch the screen, the Screen Locked Icon appears. (at the center of screen)
Moreover, it is not possible to open the Menu Function by pressing the Menu Button 9.



Menu Button 9

Unlock

Press and hold down the Menu Button 9 again to release the locked screen (the [Locked] Icon will disappear).

3-3 Screen Transition

The basic screen transition is as follows.
A change in the Measuring Mode or settings can be made on the Measuring Screen.

Power ON

Startup Screen

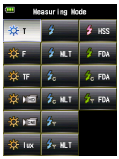
Measuring Screen

Measuring Mode

* The modes displayed can be selected in Custom Setting. (➡P170)

Set the Measuring Mode that matches your intended use.

- Ambient light
- Flash light
- HSS flash
- Flash duration analysis

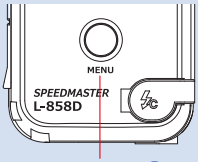


Tool Box

Set, recall and clear meter/measuring functions to fit your needs.

- Set Average/Contrast Function
- Set Exposure Compensation
- Set Mid. Tone
- Mid. Tone Recall
- Memory Clear
- Number of Pre-flash
- Flash Duration Analysis t Value
- Select Incident/Spot
- Set Filter Compensation
- Mid. Tone Clear
- Set Exposure Profile
- Memory Recall
- Multi Clear
- Radio CH/Zone

Menu



Menu Button 9

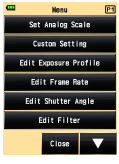
Menu Function

Select, edit, and customize meter operations and displayed measuring functions.

- Set Analog Scale
- Custom Setting
- Edit Exposure Profile
- Edit Frame Rate
- Edit Shutter Angle
- Edit Filter

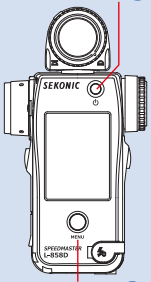
View information about your meter.

- Product Information
- Regulation



Hardware Setting

Power Button 5



Menu Button 9

Hardware Setting

While the meter's power is off, hold down the Menu Button 9, then press the Power Button 5 to display the Hardware Setting Screen.

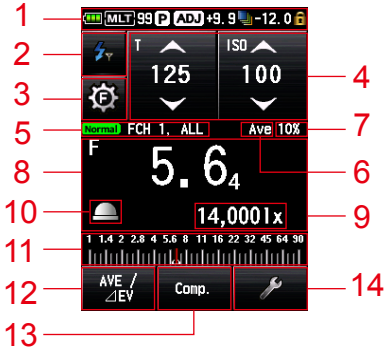
- User calibration of measured value
- Touch panel display position adjustment
- Reset to Factory settings (default settings)
- User information editing

3-4 Screen Display

3-4-1 Measuring Screen

When the power is turned on, the Measuring Screen is displayed after the Startup Screen has been displayed for one second.

Measuring Screen (Example in Radio Triggering Mode)



* This example of the Measuring Screen shows all the items for explanation purposes. The values shown are not defaults.

Measuring Screen item list

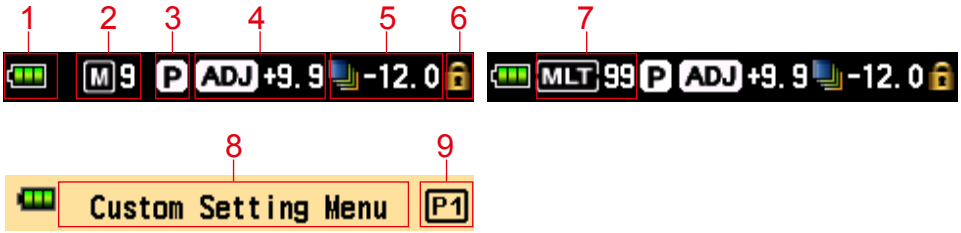
No.	Part Name	Description
1	**Status Bar**	Displays settings. (➡ P17)
2	**[Measuring Mode] Icon**	The Measuring Mode is displayed. (➡ P43) The display changes to the Measuring Mode Screen.
3	**[Flash Control] Icon**	Displayed when a transmitter (sold separately) is installed. (➡ P90)
4	**[Setting Value] Icon**	You can specify the ISO sensitivity, shutter speed, aperture, etc. The setting value is displayed in the icon. The displayed icon varies depending on the Measuring Mode. (➡ P19)
5	**Radio Triggering Setting Display**	Displays the channel or group setting when a transmitter (sold separately) is installed. (➡ P90)
6	**Set Average/ Contrast Function Display**	Displayed when the Set Average/Contrast Function is activated. (➡ P118)

No.	Part Name	Description
7	**Flash Component**	The percentage of flash light in the total exposure is displayed (in steps of 10%) (➡ P73)
8	**Measured Value/ Measuring Unit Display Area**	Displays information such as measured values and measuring units. (➡ P20)
9	**Measured Value (Additional Data)**	Displays the additional data for the measured value. (➡ P178)
10	**Display Incident/ Spot**	Displayed when "Select Incident/Spot" is not assigned to Function Button -1 or -2. (➡ P33)
11	**Analog Scale**	Displays various information such as measured values, exposure profiles, and flash or ambient light components for flash analyzing, depending on the Measuring Mode. (➡ P22)
12	**Function Button -1**	Set the desired function to this Function Button. (➡ P160)
13	**Function Button -2**	
14	**[Tool Box] Icon**	To make various settings for the current measurement, touch the [Tool Box] Icon on the Measuring Screen. (➡ P26)

Function Button [Selectable in Custom Setting Menu]

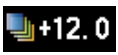
Part Name	Icon	Description
[Set Average/Contrast Function] Button		Set the Average/Contrast Function. Used with the Memory Function, displays the average of up to nine measured values. (➡ P118) The Contrast Function displays a difference between current value and memorized/averaged value when Measuring Button 6 is pressed. (Excluding the Multiple (Cumu.) Flash Mode)
[Select Incident/Spot] Button		Set the light receiving method. (➡ P32) Touch to switch between the Incident light (extended lumisphere or retracted lumisphere) and the reflected light (spot) measuring system.
[Set Exposure Compensation] Button		Toggling In/Out set exposure compensation for measured value. (➡ P125)
[Filter Compensation] Button		Toggling In/Out set filter compensation for measured value. (➡ P127)
[Mid. Tone] Button		Activate to set current value as Mid-Tone for comparison on Analog Scale. (➡ P139)

Status bar



* This example shows all the items for explanation purposes.
The displayed information vary depending on settings.

Displayed item list

No.	Part Name	Description	
1	Battery Capacity Indicator Display		Full battery power remaining.
			Sufficient battery power remaining.
			Low battery power remaining. Have spare batteries ready.
			Replace the batteries immediately.
2	Memory Count		Displays the number of measurement data items saved in the memory. The total number of data items in the memory is displayed up to "9" on the right of the M symbol.
3	Exposure Profile		Appears when the exposure profile is set.
4	Exposure Compensation		Appears when Exposure compensation (adjustment) is set for the measured value. The numeric value indicates the compensation value (+/-9.9 EV).
5	Filter Compensation		Appears when filter compensation is set for the measured value. The numeric value indicates the compensation value (+/-12.0 EV).
6	Key Locked Status Display		Appears when the Screen Lock Function is active. No touch panel operations are available when the screen is locked.
7	Multiple (Cumu.) Flash Mode/ Cumulative Count		Indicates that the Multi (Cumulative) Flash Mode is selected. ● Cordless Multi (Cumulative) Flash Mode ● Cord Multi (Cumulative) Flash Mode ● Radio Triggering Multi (Cumulative) Flash Mode This item is displayed on each Measuring Screen of the modes above. Cumulative count (up to 99) is displayed on the right of the MLT symbol. When the cumulative count exceeds the maximum, the value begins from "00" again.
8	Menu Title	-	Displays the screen title. (The title is displayed, excluding the Measuring Screen.)
9	Page Number		Displays the page number when there are multiple screens.

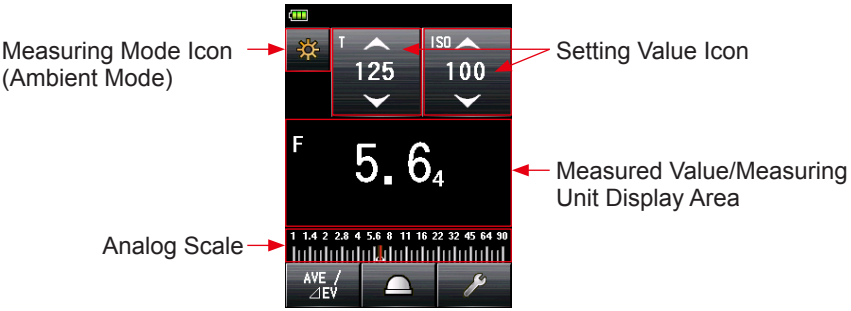
* The displayed information vary depending on the specified Measuring Mode.

3-4-2 Measuring Operation/Display Area

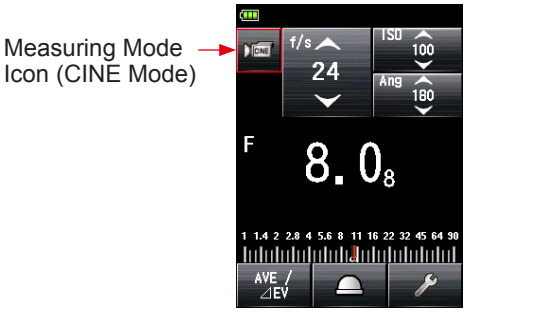
The measuring operation/display area consists of the following components:

- Measuring Mode Icon
- Setting Value Icon
- Measured value/measuring unit display area
- Analog scale

Measuring Screen (Ambient T Priority Mode)



Measuring Screen (Ambient CINE Mode)



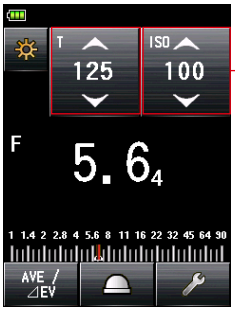
Measuring Mode Icon

Touch the [Measuring Mode] Icon ( ) at the top left of the Measuring Screen to display the Measuring Mode Screen. Select any Measuring Mode on the Measuring Mode Screen. (➡ P43)

Setting Value Icon

You can set the shutter speed, aperture, etc.
The setting value is displayed in the icon.
The displayed icon varies depending on the Measuring Mode.

Measuring Screen



T (shutter speed) Priority Mode, Flash Measuring Mode

F (Aperture) Priority Mode

T+F (Shutter Speed/Aperture) Priority Mode

HD Cine Camera Mode

Cine Camera Mode

* The character on the upper-left side of the Setting Value Icon indicates the setting.

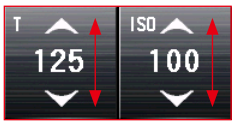
Settings

Character	Description
T	Shutter speed Shutter speed is displayed in the following way. 30m (30 minutes), 8s (8 seconds), 125 (1/125 of a second)
ISO	ISO sensitivity
F	Aperture
Ang	Shutter angle
f/s	Frames per second (Frame rate)

Operating the Setting Value Icon

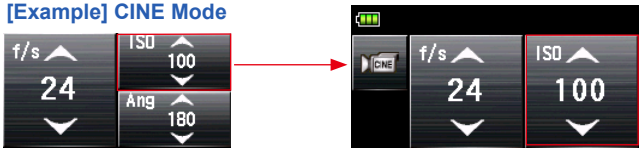
If you touch the arrow icon ( ), the setting value increases.
If you touch the arrow icon ( ), the setting value decreases.
Slide the icon number up or down with your fingertip to increase or decrease the setting value.

Setting Value Icon



* If you touch the Setting Value Icon while the HD Cine Mode or Cine Mode is enabled, the display is enlarged.

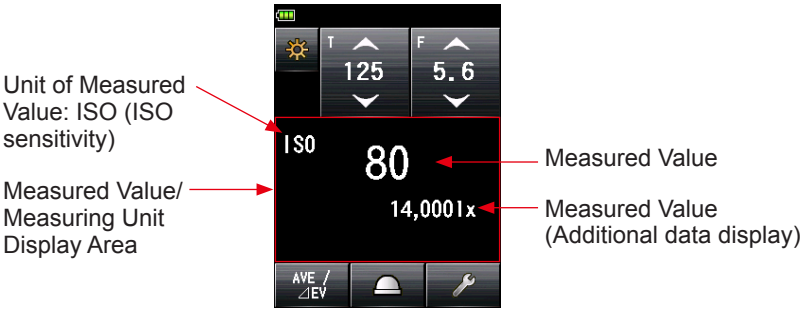
[Example] CINE Mode



Measured value/measuring unit display area

Displays information such as measured values and measuring units.

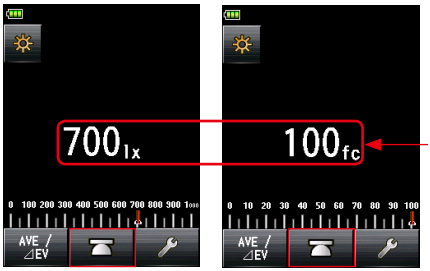
Measuring Screen



Measuring Mode information display

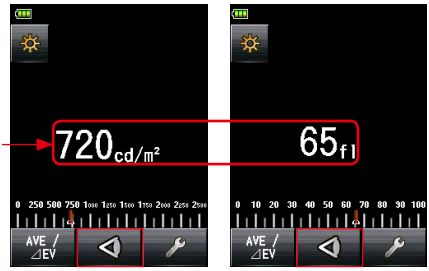
- lx : Ambient light illuminance lx independent display
- cd/m^2 : Ambient light luminance (cd/m^2) independent display

Measuring Screen
Incident light system



Measured Values

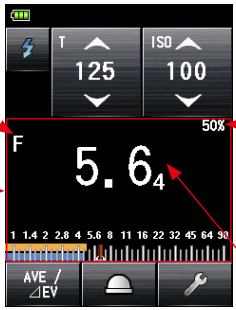
Measuring Screen
Reflected light system



Viewfinder Display

* If the light receiving method is changed from the incident light system to the reflected light system, the display is automatically changed from the Ambient Light Illuminance (lx or fc) Mode to the Ambient Light Luminance (cd/m^2 or fl) Mode.

Measuring Screen



Viewfinder Display

NOTE

Fractions of a measured value can be displayed or hidden using the "Increments of T+F" in Custom Setting. (➡ P165)

Display in Measuring Screen

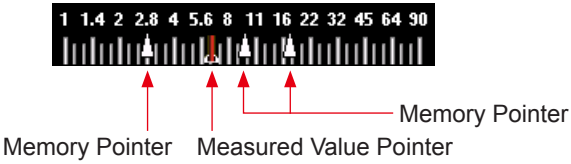
Fraction hidden	T 0.4s	T 1.3m
Fraction displayed	T 0.4s (2)	T 1.3m (1)

Viewfinder Display

Fraction hidden		
Fraction displayed		

Analog scale

The analog scale displays the exposure setting for a current measurement and value relationships between two or more memorized measurements.



Measured value scale

Depending on the Measuring Mode, the following values will be displayed on the scale.
F value, T value, illuminance lx, luminance cd/m^2

Aperture scale

Shutter speed scale

Illuminance (lx) scale

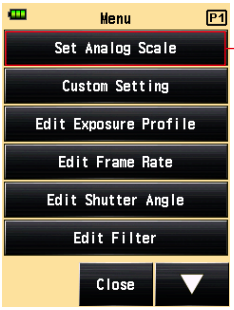
Luminance (cd/m^2) scale

EV scale

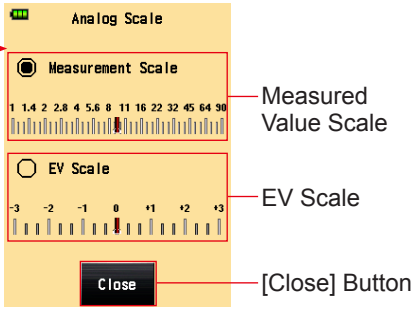
This scale has two modes that can be selected: measured value scale and EV scale. You can switch between these two modes using the Menu Function.

EV scale display

Menu Screen, Page 1

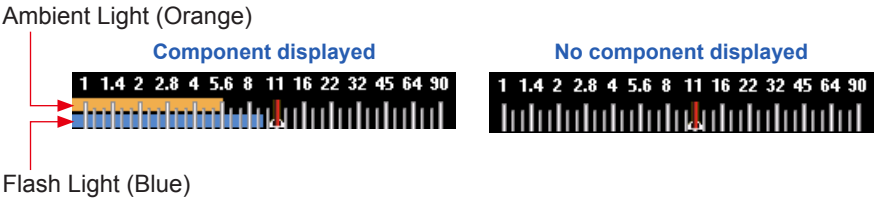


Analog Scale Selection Screen



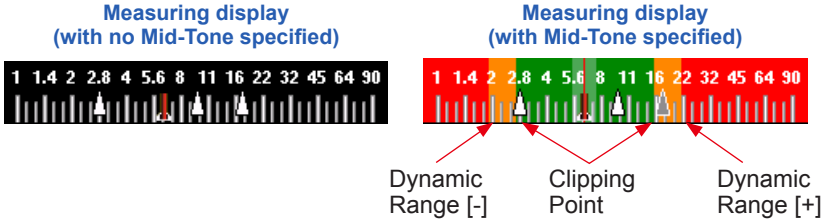
Flash analyzing scale

The ambient light and flash light components are displayed on the analog scale when a flash light measurement is made. You can touch the scale to switch whether to display components or not. (➡ P73)



Mid tone scale

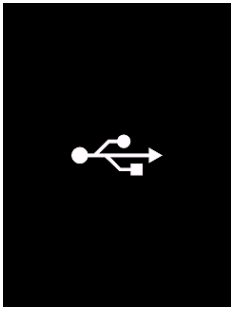
The scale color is changed when the Mid-Tone Mode is selected, and the clipping point and dynamic range are displayed. (➡ P139)



3-4-3 USB Connection Screen

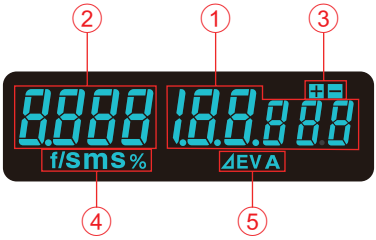
The USB symbol is displayed on the screen whenever meter is connected to a computer via USB cable. Button and touch panel operations are disabled, excluding the Power Button 5.

Screen displayed when a USB storage drive is connected



3-4-4 Viewfinder Display

Viewfinder Display



Viewfinder item list

No.	Part Name	Description
①	**Measured value display**	Displays the measured value.
②	**Additional display**	Displays the flash component ratio and the Illuminance/luminance symbol.
③	**Exposure compensation**	Displays only the plus or minus sign when exposure compensation is set for the actually measured exposure value.
④	**Unit display**	**%** The ratio of flash light to the total exposure is displayed as a percentage (in steps of 10%) **m** Appears when the shutter speed is set in minutes. **s** Appears when the shutter speed is set in seconds. **f/s** Appears when the shutter speed is set with the cine frame rate.
⑤	**Monitor value/ average value display area**	**⊿EV** Appears when the monitor measurement is active. **A** Appears when the average measurement is active or the standard value is specified for monitor measurement.

NOTICE

The viewfinder displays only measured values. The additional data cannot be displayed.

Special Viewfinder display examples

- Shutter speeds higher that 1/1600s are abbreviated to the first digit and "k" multiplier symbol.

  Example: 1/2,000s = 2K

  Viewfinder Display

- In T+F priority, ISO numbers higher than ISO 160,000 as the first 3 digits and k multiplier symbol.

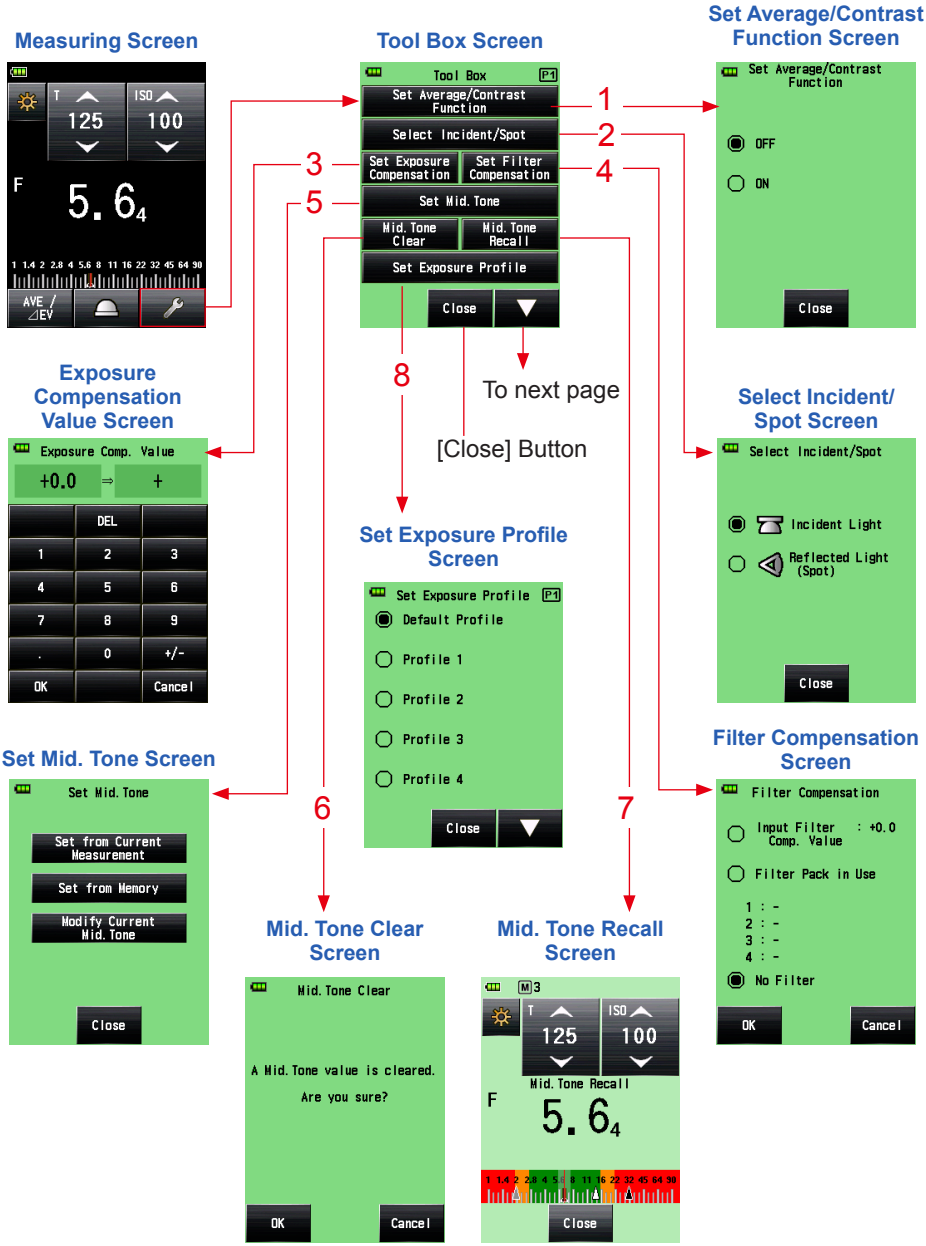
  Example: ISO 204,800 = 204K

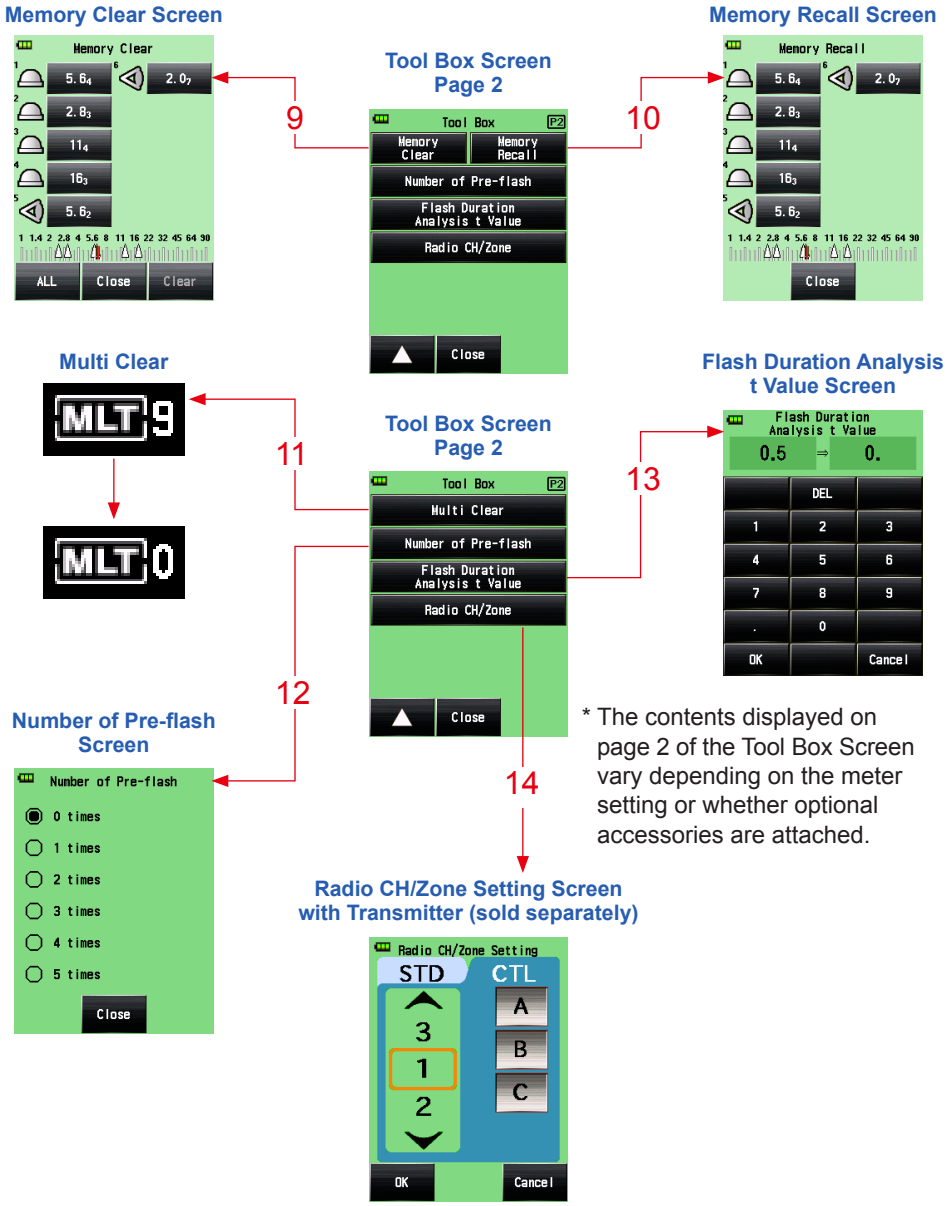
  Viewfinder Display

3-4-5 Tool Box Screen

Touch the [Tool Box] Icon ( ) on the Measuring Screen to make the following settings.





* The contents displayed on page 2 of the Tool Box Screen vary depending on the meter setting or whether optional accessories are attached.

* When the Multiple (Cumu.) Flash Mode is selected, page 2 of the Tool Box Screen displays contents that are different from those shown above.
* The contents are displayed on page 2 of the Tool Box Screen if a transmitter (sold separately) is installed.

Tool Box item list

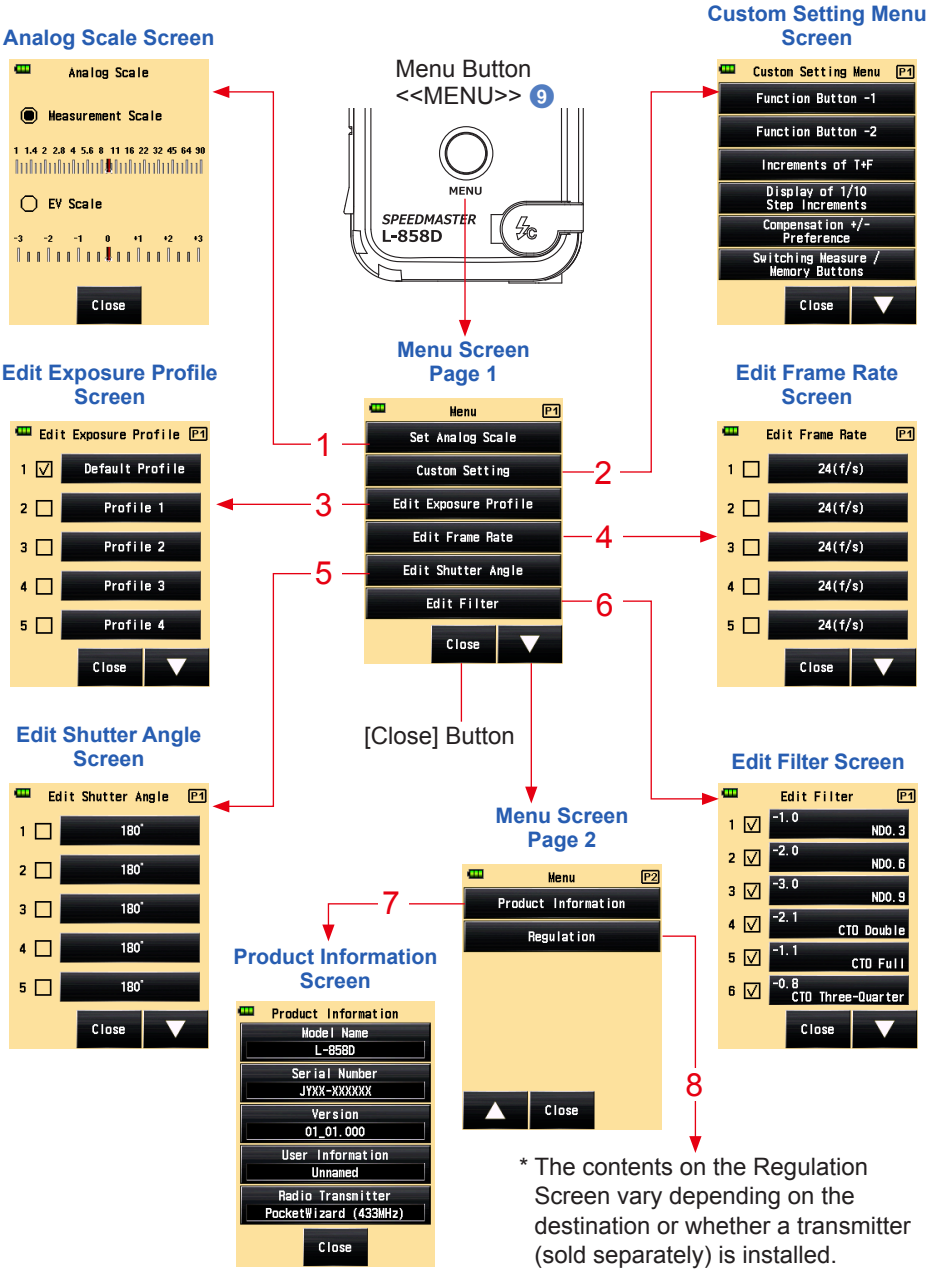
No.	Part Name	Description
1	**Set Average/Contrast Function**	Select ON or OFF. (➡ P118)
2	**Select Incident/Spot**	Select the light receiving method (Incident/Spot). (➡ P32)
3	**Set Exposure Compensation**	Input an Exposure compensation value. The allowable exposure compensation range is -9.9 EV to +9.9 EV. (➡ P125)
4	**Filter Compensation**	Set filter compensation (you can input the filter compensation value or select the filter name). The allowable filter compensation range is -12.0 to +12.0. (➡ P127)
5	**Set Mid. Tone**	Set the mid-tone (from the current measured value or memorized value) or edit the mid tone value. (➡ P139)
6	**Mid. Tone Clear**	Delete the mid-tone value. (➡ P145)
7	**Mid. Tone Recall**	Recall the set mid-tone value. (➡ P144)
8	**Set Exposure Profile**	Select an exposure profile. (➡ P147)
9	**Memory Clear**[*1]	Delete the measured value that is saved in the memory. (Not displayed in the Multiple (Cumu.) Flash Mode.) (➡ P113)
10	**Memory Recall**[*1]	Recall the measured value that is saved in the memory. (Not displayed in the Multiple (Cumu.) Flash Mode.) (➡ P116)
11	**Multi Clear**[*1]	Clear the multiple flash reading. (Displayed in the Multiple (Cumu.) Flash Mode only.) (➡ P82, P89)
12	**Number of Pre-flash**	Select the number of pre-flash cancellation times. (➡ P77, P83, P93, P98)
13	**Flash Duration Analysis t Value**	Select the analysis t value of the flash duration time. (➡ P100, P105)
14	**Radio CH/Zone (Group)**[*2]	Select Radio channel and Zone (or Group). (➡ P90)

[*1] When the Multiple (Cumu.) Flash Mode is selected, the displayed information are different from those shown above.

[*2] Displayed if a transmitter (sold separately) is installed.

3-4-6 Menu Screen

Touch the Menu Button ⑨ to make the following settings.



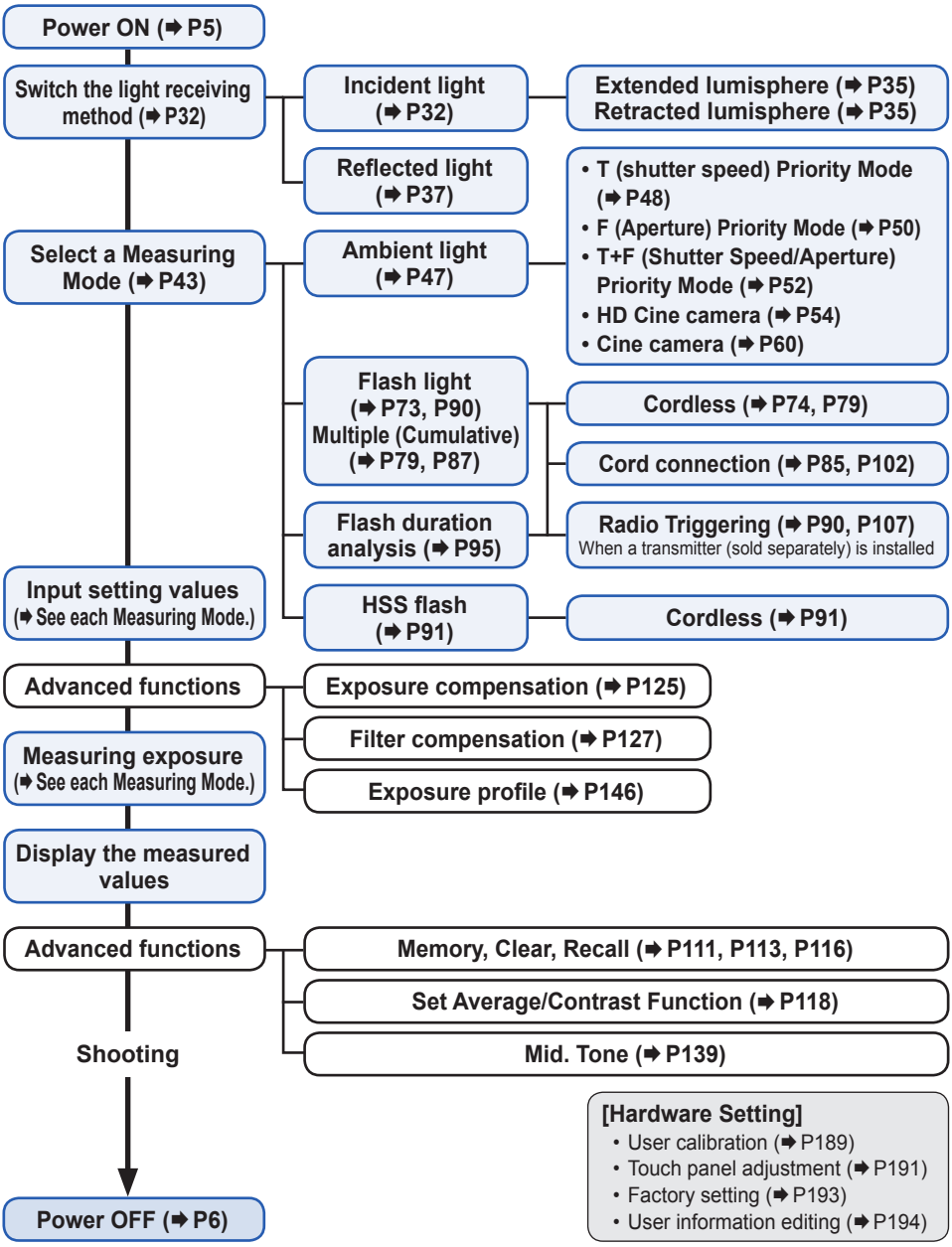
* The contents on the Regulation Screen vary depending on the destination or whether a transmitter (sold separately) is installed.

Menu item list

No.	Part Name	Description
1	**Analog Scale**	Set the display of the analog scale. (➡ P22)
2	**Custom Setting Menu**	Select a function or set and edit the displayed information. (➡ P156)
3	**Edit Exposure Profile**	Edit exposure files created by Data Transfer Software on the meter side (about setting values and names). (➡ P148)
4	**Edit Frame Rate**	Create up to 20 frame rates in addition to the standard frame rates. (➡ P57, P63)
5	**Edit Shutter Angle**	Create up to 20 shutter angles in addition to the standard shutter angles. (➡ P66)
6	**Edit Filter**	Set filter compensation up to 30 sheets (No. 1 to No. 30). The specified filter compensation values can be freely edited. (➡ P127)
7	**Product Information**	Displays information such as the meter version.
8	**Regulation**	Displays the compatibility symbol (institutions) for the legal restrictions according to which the meter is licensed.

4. Basic Operations

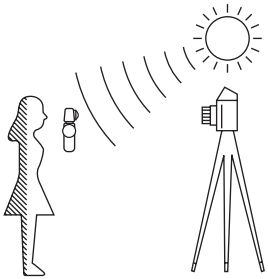
4-1 Basic Measurement Workflow



4-2 Switch the Light Receiving Method

4-2-1 Incident Light System

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



1) Using the Function Button for Setting

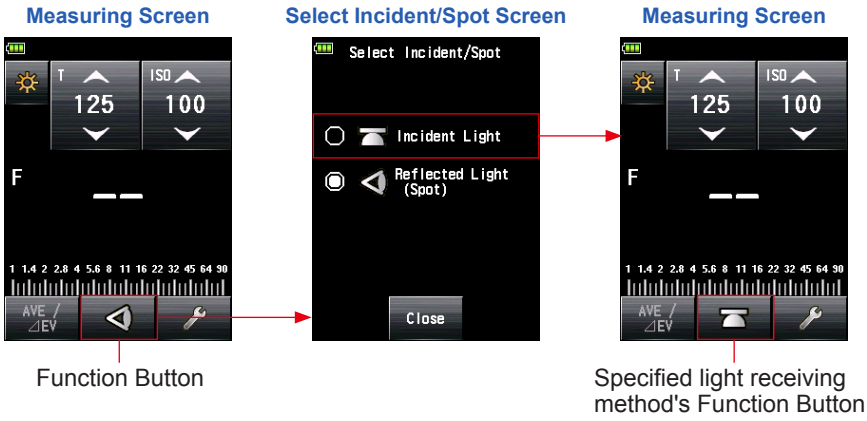
* This section describes how to switch the light receiving method from the reflected light system to the incident light system.

1. Touch the [Function Button] Icon (◁) on the Measuring Screen.

This changes the screen to the Select Incident/Spot Screen.

2. Touch the [Incident Light] Radio Button.

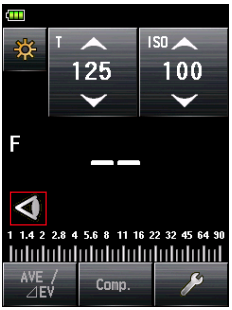
This changes the system to the incident light system, and the display returns to the Measuring Screen.



NOTICE

If you used Custom Functions to change the Function Button assignment, sellect Incident/Spot using the Tool Box Screen. (➡ P34)

Measuring Screen



NOTE

Icon	Description
	Displayed when the extended lumisphere is selected for incident light.
	Displayed when the retracted lumisphere is selected for incident light.
	Displayed when reflected light is selected.

2) Setting on the Tool Box Screen

1. Touch the [Tool Box] Icon ( ) on the Measuring Screen.

The Tool Box Screen is displayed.

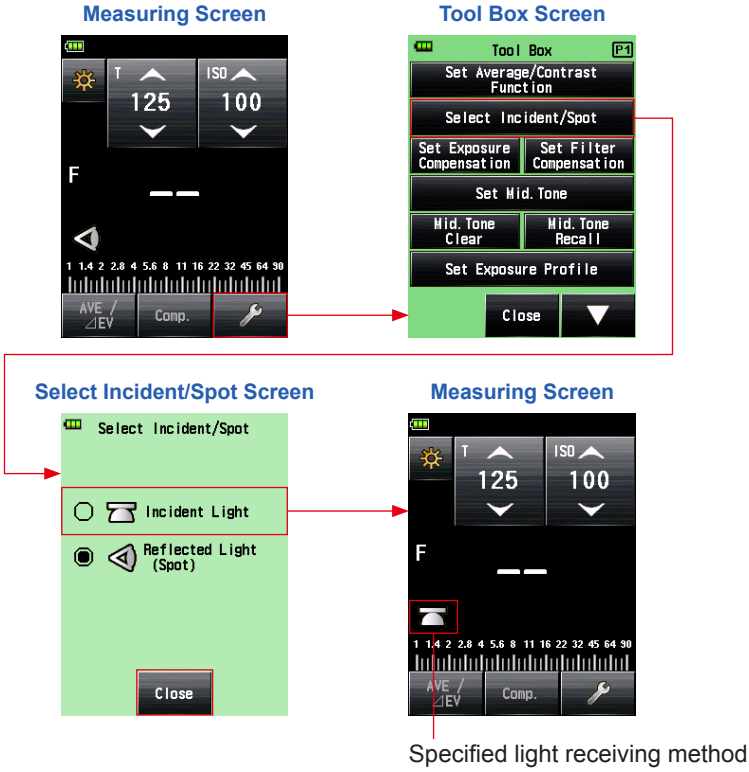
2. Touch the [Select Incident/Spot] Button on the Tool Box Screen.

The Select Incident/Spot Screen is displayed.

3. Touch the [Incident Light] Radio Button.

This changes the system to the incident light system, and the display returns to the Measuring Screen.

If you do not want to make any changes, touch the [Close] Button to return to the Measuring Screen.



NOTICE

Measurement values for the current Measuring Mode will be cleared when going to the Select Incident/Spot Screen.

3) Interchanging the Extended Lumisphere and Retracted Lumisphere

1. Extending Lumisphere

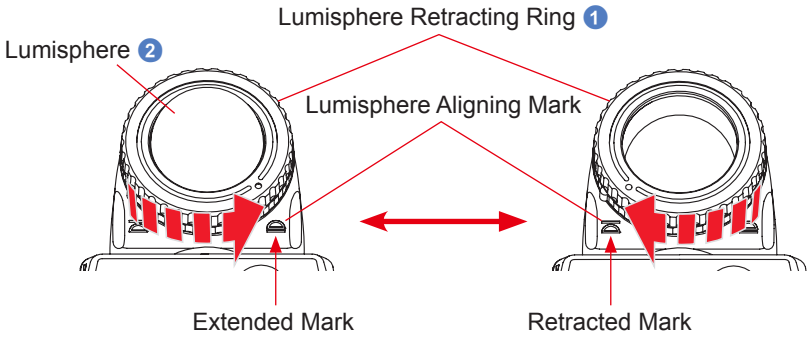
Extend the Lumisphere to measure the illumination of people, buildings, and other three dimensional subjects.

Rotate the top of the Lumisphere Retracting Ring ❶ to securely align the mark on the ring with the lumisphere mark ( ).

2. Retracting Lumisphere

Retract the Lumisphere to measure the illumination of flat subjects such as manuscripts, books, or paintings, measure the illumination ratio (Contrast Function), and simply measure the illuminance.

Rotate the Lumisphere Retracting Ring ❶ to securely align the mark on the ring with the retracted lumisphere mark ( ).



NOTICE

- **Try to minimize your influence on the light measurement. Do not block the light falling on the subject with your hand or body. Do not allow light toned clothing to reflect light into the meter.**
- **Do not set the Lumisphere Retracting Ring ❶ to an intermediate position. This will change the quality of the light and produce an incorrect measurement.**
- **Do not push down the Lumisphere ❷ with your hand.**
- **Because it may affect the precision of the measurements, be careful not to damage or contaminate the Lumisphere ❷. If the Lumisphere ❷ becomes dirty, wipe it with a dry soft cloth. Never use organic solvent such as thinner or benzene.**

NOTE

If the Lumisphere 2 is damaged or stains cannot be removed, purchase a replacement of lumisphere for L-858 separately, and replace the defective lumisphere with the new one.

1) How to replace the Lumisphere 2

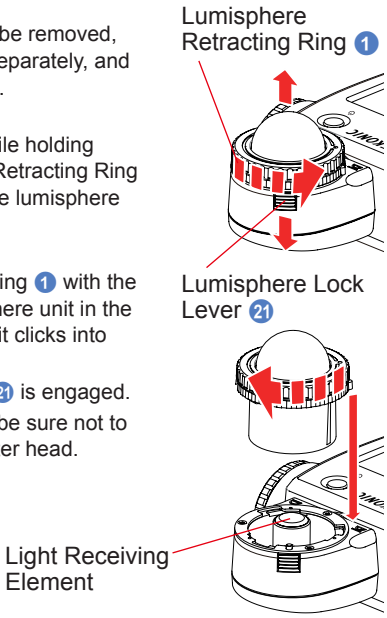
Push down the Lumisphere Lock Lever 21. While holding both the upper and lower parts of Lumisphere Retracting Ring 1, turn the ring counterclockwise to remove the lumisphere unit.

2) How to attach the Lumisphere 2

Align the mark on the Lumisphere Retracting Ring 1 with the mark on the meter head, and press the lumisphere unit in the meter head. Then, turn the ring clockwise until it clicks into place.

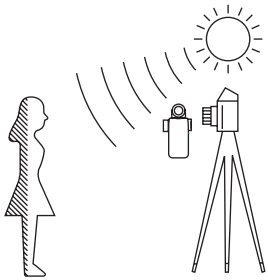
* Check to see that the Lumisphere Lock Lever 21 is engaged.

* When attaching/detaching the Lumisphere 2, be sure not to touch the light receiving element inside the meter head.



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.). Although the reflected measurement is useful to see from the highlight to shadow, the measured value should be compensated to use as the proper exposure depending on the reflectance ratio. Reflected light measurements are made by aligning the circle in the viewfinder with the subject area to be measured at the camera position or in the camera direction.



1) Using the Function Button for Setting

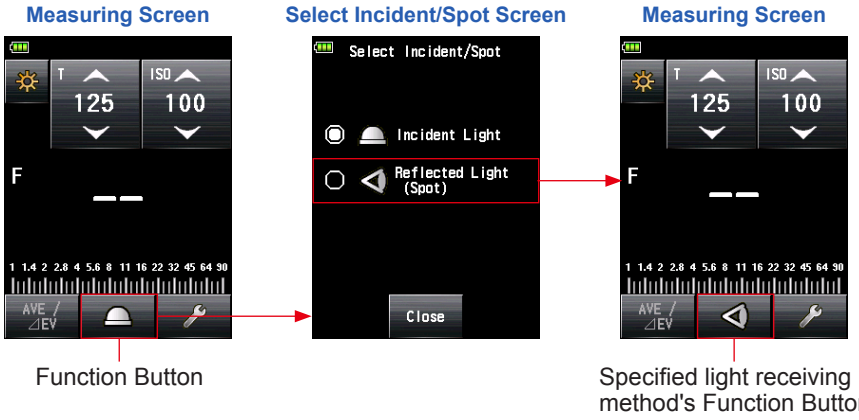
* This section describes how to switch the light receiving method from the incident light system to the reflected light system.

1. Touch the [Function Button] Icon ( ) on the Measuring Screen.

This changes the screen to the Select Incident/Spot Screen.

2. Touch the [Reflected Light (Spot)] Radio Button.

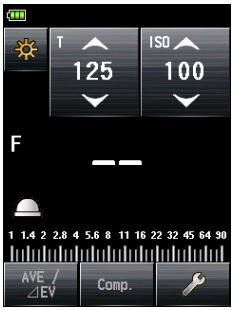
This changes the reflected light system, and the display returns to the Measuring Screen.



NOTICE

If you used Custom Functions to change the Function Button assignment, sellect Incident/Spot using the Tool Box Screen. (➡ P39)

Measuring Screen



NOTE

Icon	Description
	Displayed when the extended lumisphere is selected for incident light.
	Displayed when the retracted lumisphere is selected for incident light.
	Displayed when reflected light is selected.

2) Setting on the Tool Box Screen

1. Touch the [Tool Box] Icon ( ) on the Measuring Screen.

The Tool Box Screen is displayed.

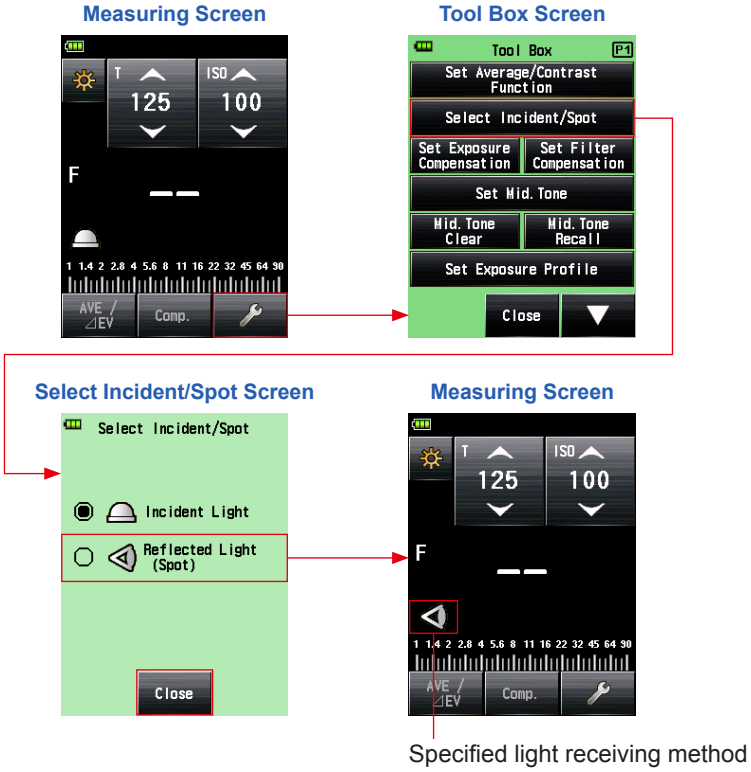
2. Touch the [Select Incident/Spot] Button on the Tool Box Screen.

The Select Incident/Spot Screen is displayed.

3. Touch the [Reflected Light (Spot)] Radio Button.

This changes the reflected light system, and the display returns to the Measuring Screen.

If you do not want to make any changes, touch the [Close] Button to return to the Measuring Screen.

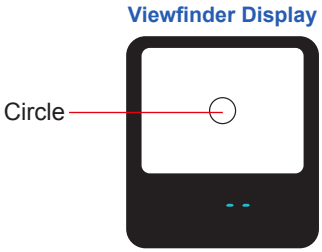


NOTICE

Measurement values for the current Measuring Mode will be cleared when going to the Select Incident/Spot Screen.

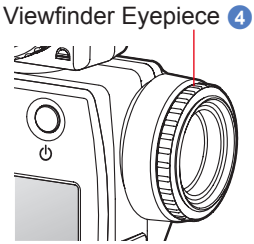
3) Measuring Area

The measuring area is the inside of circle in the viewfinder.
The light receiving angle is 1 degree.



4) Diopter Scale Compensation

While looking through the viewfinder, adjust the diopter by rotating the Viewfinder Eyepiece 4 so that the circle and digital display can be seen clearly.
(The setting range is -2.5 to 1.0 D.)



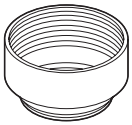
⚠ WARNING

Be careful not to directly look at the sun or bright light sources during measurement.

This may cause a serious eye injury or lead to blindness.

NOTE

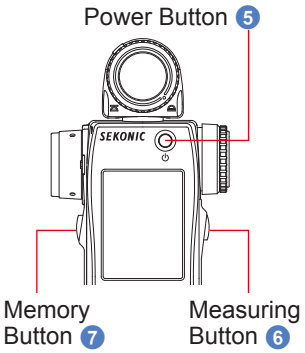
<<Step-up ring>> (Accessory sold separately)
You can attach a filter to the objective lens side using the step-up ring (30.5 mm → 40.5 mm). This allows you to determine the exposure without specifying the filter compensation value of the PL filter, etc., which is a burdensome task.
The step-up ring can also be used as a hood to protect the lens part from damage or dirt and prevent an incorrect measurement due to lens flare or glare. (➡ P196)



4-2-3 Setting the Measuring Button 6 and Memory Button 7

You can interchange the Measuring Button 6 and Memory Button 7 using Custom Setting. (➡P168)

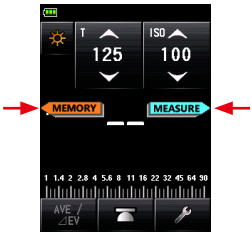
1. When mainly using the incident light system
"Switching Measure / Memory Buttons" is set to "Standard" in the Custom Setting menu. (➡P157)



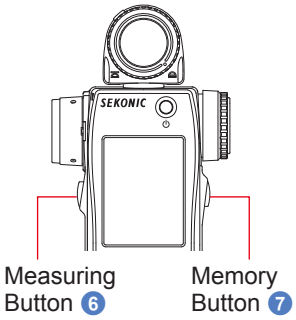
NOTE

Each time the meter is powered on, the assignment of the Memory and Measurement Buttons will be displayed for two seconds.

Measuring Screen



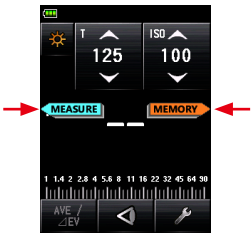
2. When mainly using the reflected light system (spot)
If it is inconvenient to operate the Measuring Button in the reflected light system (spot), you can interchange the Measuring Button 6 and Memory Button 7. Select "Reverse" in "Switching Measure / Memory Buttons" on the Custom Setting menu. (➡P168)



NOTE

Each time the meter is powered on, the assignment of the Memory and Measurement Buttons will be displayed for two seconds.

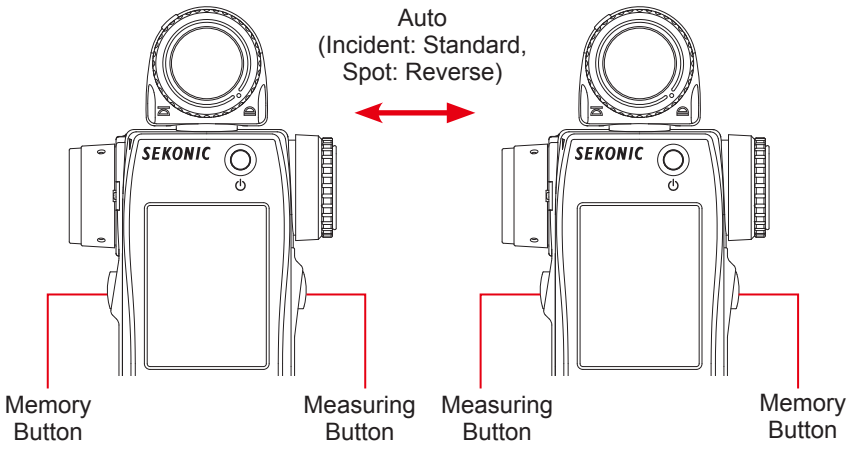
Measuring Screen



3. When frequently using both the incident light and reflected light systems

In the incident light system, the button position can be changed automatically to the standard configuration. In the reflected light system, it can be changed automatically to the reverse configuration.

Select "Auto (Incident:Standard, Spot:Reverse)" in "Switching Measure / Memory Buttons" on the Custom Setting menu. (➡P168)



In Incident Light System **In Reflected Light System**

4-3 Selecting the Measuring Mode

Select the desired Measuring Mode.

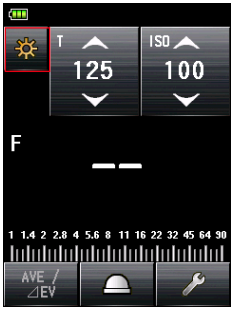
NOTICE

If you change the Measuring Mode, the measured value is cleared.

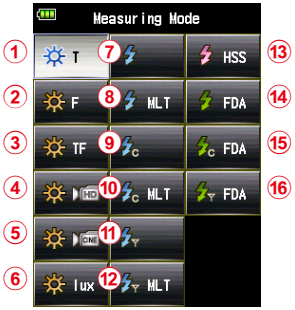
Touch the [Measuring Mode] Icon ( ) on the Measuring Screen to display the Measuring Mode Screen. Here you can select any Measuring Mode to suit your light measuring needs.

* The Measuring Modes displayed on the Measuring Mode Screen vary depending on the details of Custom Setting. (➡ P157)

Measuring Screen



Measuring Mode Screen



* This example shows all the items for explanation.

Icons on the Measuring Mode Screen

Measuring Mode: **Ambient Mode** (➡ P170)		
No.	**Icon**	**Description**
①	T	**Ambient Light T (shutter speed) Priority Mode** Displays F-stop value (aperture) for input shutter speed and ISO sensitivity. (➡ P48)
②	F	**Ambient Light F-stop (Aperture) Priority Mode** Displays shutter speed value for input F-stop and ISO sensitivity. (➡ P50)
③	TF	**Ambient Light T+F (Shutter Speed and Aperture) Priority Mode** Displays ISO sensitivity for input shutter speed and F-stop value. (➡ P52)
④	HD	**Ambient Light HD Cine Mode** Displays F-stop value for input shutter speed, frame rate and ISO sensitivity. (➡ P54)

⑤		**Ambient Light CINE Mode** Displays F-stop value for input frame rate, ISO sensitivity, and shutter angle values. (➡ P60)
⑥		**Ambient Light Illuminance lux Mode (Incident light measurement)** Displays brightness value in lux (lx) unit. (➡ P69)
		**Ambient Light Illuminance fc Mode (Incident light measurement)** Displays brightness value in foot-candle (fc) unit. (➡ P69)
		**Ambient Light Luminance cd/m^2 Mode (Reflected light measurement)** Displays brightness values in cd/m^2 unit. (➡ P71)
		**Ambient Light Luminance fl Mode (Reflected light measurement)** Displays brightness value in foot-lambert (fl) unit. (➡ P71)

NOTE

Ambient Light refers to natural light (sunlight) as well as continuous light like tungsten lamps and fluorescent lamps.

Measuring Mode: **Flash Mode** (➡ P172)

No.	Icon	Description
⑦		**Cordless Flash Mode** Detects flash brightness without meter-flash connection after Measuring Button pressed to arm meter for 90 seconds and flash fired separately, and displays F-stop value for input shutter speed and ISO sensitivity. (➡ P74)
⑧		**Cordless Multiple (Cumulative) (MLT) Flash Mode** Detects and accumulates flash brightness without meter-flash connection after Measuring Button pressed to arm meter for 90 seconds and flash fired separately, and displays F-stop value for input shutter speed and ISO sensitivity. (➡ P79)
⑨		**Cord Flash Mode** Detects flash brightness with synchro cord meter- flash connection, and displays F-stop value for input shutter speed and ISO sensitivity. (➡ P85)
⑩		**Cord Multi (Cumulative) Flash Mode** Detects and accumulate flash brightness with synchro cord meter- flash connection, and displays F-stop value for input shutter speed and ISO sensitivity. (➡ P87)
⑪		**Radio Triggering Flash Mode** Detects flash brightness after Measuring Button is pressed to send radio transmitted signal to radio receiver connected to flash. Displays F-stop value for input shutter speed and ISO sensitivity (When a transmitter sold separately is installed). (➡ P90)

⑫		**Radio Triggering Multi (Cumulative) Flash Mode** Detects and accumulate flash brightness after Measuring Button is pressed to send radio transmitted signal to radio receiver connected to flash. Displays F-stop value for input shutter speed and ISO sensitivity (When a transmitter sold separately is installed). (➡ P90)

Measuring Mode: **HSS Mode** (➡ P174)

No.	Icon	Description
⑬		**HSS (High Speed Synchro) Flash Cordless Mode** Select this mode to measure the brightness of a flash activated in HSS (High Speed Synchro) Flash Mode. Detects flash brightness without meter-flash connection after Measuring Button pressed to arm meter for 90 seconds and flash fired separately, and displays F-stop value for input shutter speed and ISO sensitivity. (➡ P91)

Measuring Mode: **Flash Duration Analysis Mode** (➡ P176)

No.	Icon	Description
⑭		**Flash Duration Analysis Cordless Mode** Detects flash brightness without meter-flash connection after Measuring Button pressed to arm meter for 90 seconds and flash fired separately, and displays flash duration time, graph of flash waveform and F-stop value for input shutter speed and ISO sensitivity. (➡ P95)
⑮		**Flash Duration Analysis Cord Mode** Detects flash brightness with synchro cord meter- flash connection, and displays flash duration time, graph of flash waveform and F-stop value for input shutter speed and ISO sensitivity. (➡ P102)
⑯		**Flash Duration Analysis Radio Triggering Mode** Detects flash brightness after Measuring Button is pressed to send radio transmitted signal to radio receiver connected to flash. Displays flash duration time, graph of flash waveform and F-stop value for input shutter speed and ISO sensitivity (When a transmitter sold separately is installed). (➡ P107)

NOTE

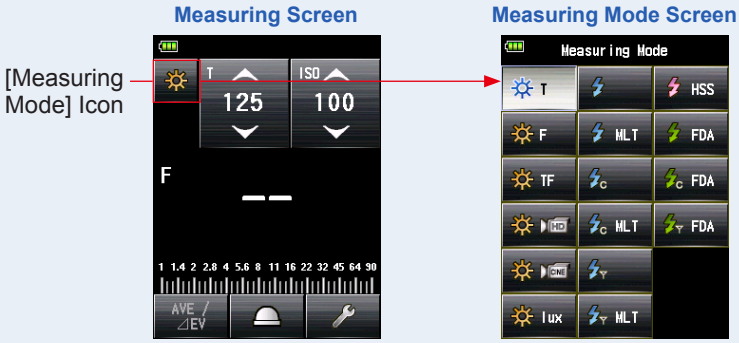
Flash refers to momentary light such as that produced by a flashlight or flash bulb.

Operation

* This section describes how to switch from the Ambient T Priority Mode to the Ambient CINE Mode.

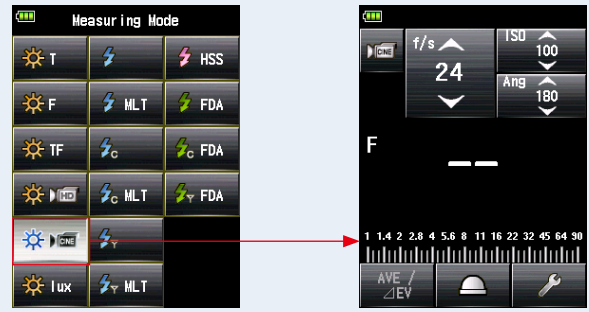
1. Touch the [Measuring Mode] Icon on the upper left of the screen.

The Measuring Mode Screen is displayed.



2. Touch the desired icon on the Measuring Mode Screen.

Select the desired Measuring Mode. Then, the screen changes.



5. Measuring

5-1 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.
The following measuring methods are available in Ambient Light Mode.

- T (shutter speed) priority
- F (f-stop) priority
- T+F (EV) priority
- Illuminance Mode (Lux or Foot-candle) (in incident light measurement)
- Luminance Mode (cd/m^2 or Foot-lambert) (in reflected light measurement)

NOTE

- Shutter speed and f-stop (aperture) values can be displayed in 1, 1/2 and 1/3 stop increments in Custom Setting. (➡P163)
- After taking a measurement, changing a setting value (ISO sensitivity, shutter speed, aperture, frame rate, or shutter angle) will display the corresponding measured value.
- Touching the [Average] Icon () at the bottom of the screen activates the Average Function. (➡P118)
- The Analog Scale display will change according to Measuring Mode, Incident/Reflected and Mid-Tone Mode selected as well as "Set Analog Scale" (Measurement Scale or EV Scale) in Menu list. (➡P22)
- If the reading is outside the display range or beyond the measuring range, change the aperture or adjust the brightness. (➡P108)

5-1-1 T (shutter speed) Priority Mode

Displays aperture (F) for input ISO sensitivity and shutter speed values.

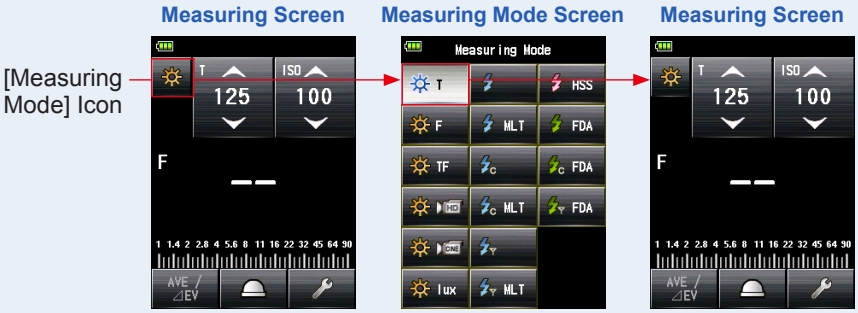
Operation

1. Touch the [Measuring Mode] Icon on the Measuring Screen.

The Measuring Mode Screen is displayed.

2. Touch the icon (T) on the Measuring Mode Screen.

When it is selected, the display changes to the Measuring Screen.



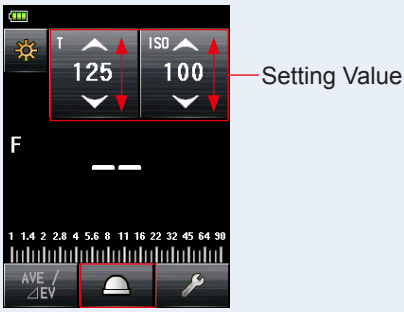
3. Set the light receiving method.

Switch to the Incident light, extended lumisphere ( )/retracted lumisphere ( ), or reflected light. (➡ P32, P37)

4. **Set the ISO sensitivity value on the [ISO] Icon.** (➡ P197)

5. **Set the shutter speed on the [T] Icon.** (➡ P197)

Measuring Screen



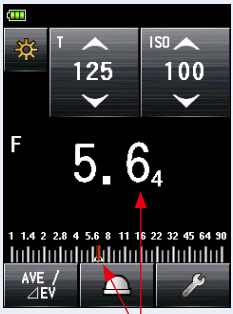
6. **Press the Measuring Button ❻ on the side of the meter to measure the light.**

The measured value (F-stop) will be displayed.

While the Measuring Button ❻ is being pressed, the meter measures continuously until the button is released.

When the Measuring Button ❻ is released, the measurement is completed. The measured value at that time will be displayed in the measured value/measuring unit display area and on the analog scale. (➡ P22, P24)

Measuring Screen



Viewfinder Display (in reflected light measurement)

Measured Value (F-stop)

5-1-2 F (F-stop) Priority Mode

Displays shutter speed (T) for input ISO sensitivity and f-stop values.

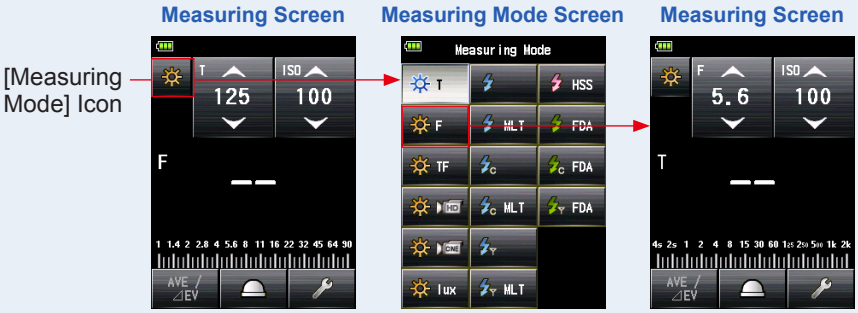
Operation

1. Touch the [Measuring Mode] Icon on the Measuring Screen.

The Measuring Mode Screen is displayed.

2. Touch the icon (F) on the Measuring Mode Screen.

When it is selected, the display changes to the Measuring Screen.



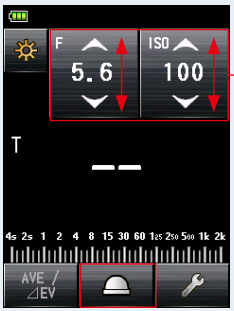
3. Set the light receiving method.

Switch to the Incident light, extended lumisphere ( )/retracted lumisphere ( ), or reflected light. (➡ P32, P37)

4. Set the ISO sensitivity value on the [ISO] Icon. (➡ P197)

5. Set the aperture on the [F (f-stop)] Icon. (➡ P198)

Measuring Screen



6. Press the Measuring Button ❻ on the side of the meter to measure the light.

The measured value (shutter speed) will be displayed.

While the Measuring Button ❻ is being pressed, the meter measures continuously until the button is released.

When the Measuring Button ❻ is released, the measurement is completed. The measured value at that time will be displayed in the measured value/measuring unit display area and on the analog scale. (➡ P22, P24)

Measuring Screen

Viewfinder Display (in reflected light measurement)

5-1-3 T+F (Shutter Speed/F-stop) Priority Mode

Displays ISO sensitivity for input shutter speed and f-stop values.
The T+F (Shutter Speed/F-stop) Priority Mode is useful for today's digital cameras when a fixed speed and aperture are desired and the ISO can be adjusted for appropriate exposure.

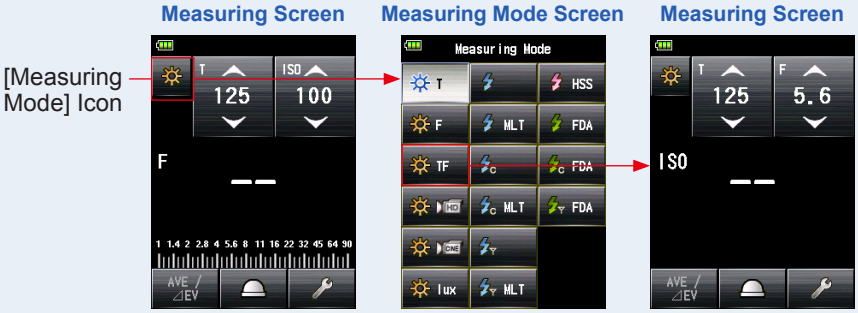
Operation

1. Touch the [Measuring Mode] Icon on the Measuring Screen.

The Measuring Mode Screen is displayed.

2. Touch the icon (TF) on the Measuring Mode Screen.

When it is selected, the display changes to the Measuring Screen.



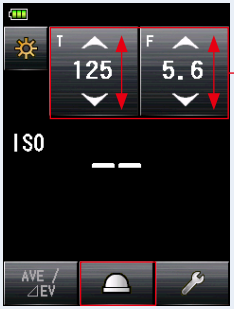
3. Set the light receiving method.

Switch to the Incident light, extended lumisphere ( )/retracted lumisphere ( ), or reflected light. (➡P32, P37)

4. **Set the shutter speed on the [T] Icon.** (➡ P197)

5. **Set the aperture on the [F (f-stop)] Icon.** (➡ P198)

Measuring Screen



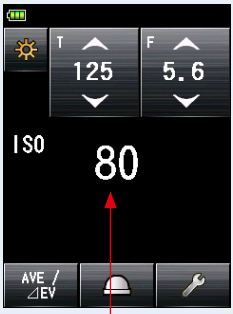
6. **Press the Measuring Button ⑥ to measure the light on the side of the meter.**

The measured ISO sensitivity value will be displayed.

While the Measuring Button ⑥ is being pressed, the meter measures continuously until the button is released.

When the Measuring Button ⑥ is released, the measurement is completed. The measured value at that time will be displayed in the measured value/measuring unit display area and on the analog scale. (➡ P22, P24)

Measuring Screen



Viewfinder Display
(in reflected light measurement)

NOTICE

In the T+F (Shutter Speed/F-stop) Priority Mode, the ISO sensitivity (measured value) can be stored in the memory, but cannot be displayed on the scale.

5-1-4 HD CINE Mode

Displays f-stop value for input shutter speed, ISO sensitivity and frame rate (f/s).

1) Measuring

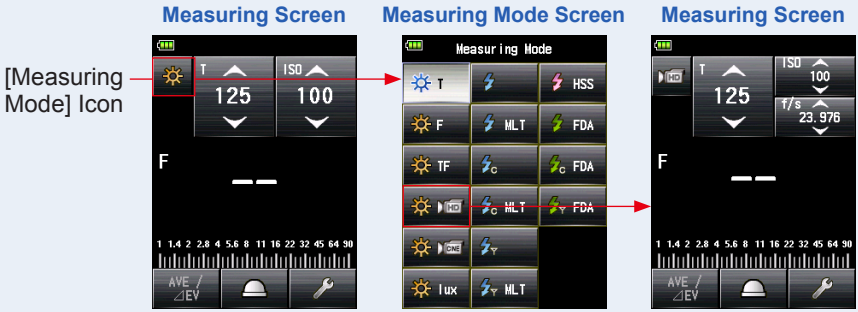
Operation

1. Touch the [Measuring Mode] Icon on the Measuring Screen.

The Measuring Mode Screen is displayed.

2. Touch the icon ( ) on the Measuring Mode Screen.

When it is selected, the display changes to the Measuring Screen.

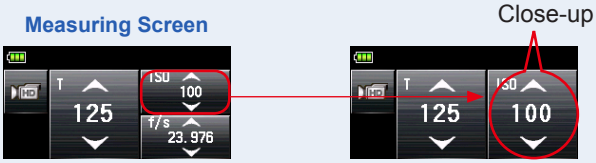


3. Set the light receiving method.

Switch to the Incident light, extended lumisphere ( )/retracted lumisphere ( ), or reflected light. (➡P32, P37)

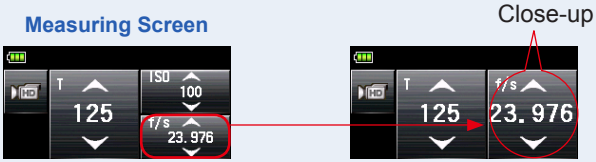
4. Set the ISO sensitivity value on the [ISO] Icon. (➡ P197)

Touch the [ISO] Icon to expand it.
Slide the icon number up or down using your fingertip to set the measured value.
The icon will return to its reduced size after the icon is not touched for a short time.

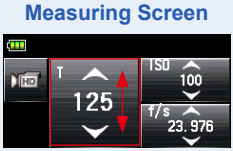


5. Set the frame rate on [f/s] Icon.

Touch the [f/s] Icon to expand it.
Slide the icon number up or down using your fingertip to set the frame rate.
The icon will return to its reduced size after the icon is not touched for a short time.



6. Set the shutter speed on the [T] Icon. (➡ P197)



7. Press the Measuring Button ❻ on the side of the meter to measure the light.

The measured value (F-stop) will be displayed.

While the Measuring Button ❻ is being pressed, the meter measures continuously until the button is released.

When the Measuring Button ❻ is released, the measurement is completed. The measured value at that time will be displayed in the measured value/measuring unit display area and on the analog scale. (➡ P22, P24)

Measuring Screen

Measured Value (F-stop)

Viewfinder Display (in reflected light measurement)

NOTE

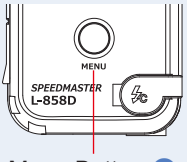
- There are 20 preset of frame rates that can be customized. (➡ P57)
- The T value cannot be set lower than the selected frame rate.

2) Frame Rate Editing

In addition to the standard frame rates available in the meter, up to 20 frame rates can be customized and displayed in the Meter Screen. The stored frame rates can be edited as desired. (➡ P198)

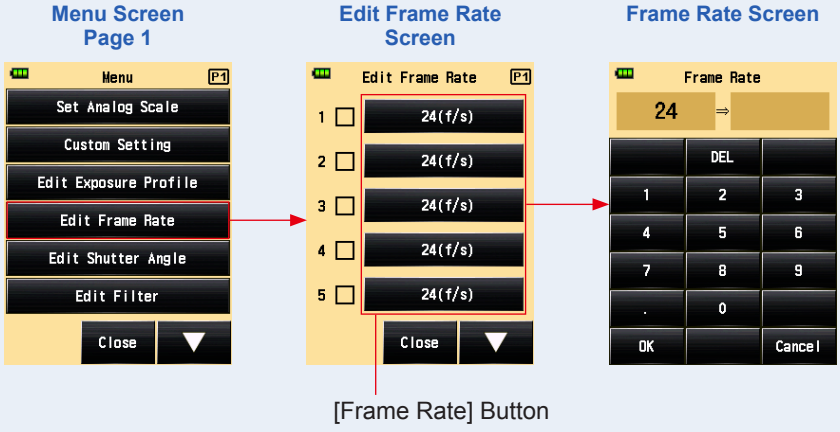
Operation

1. Press the Menu Button ⑨ on the meter to open the Menu Screen.



2. Touch [Edit Frame Rate] Button to display the Edit Frame Rate Screen.

3. Touch [Frame Rate] Button to display the Frame Rate Screen.

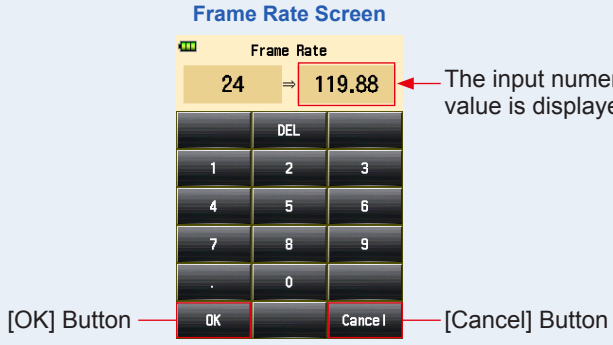


4. Input a numeric value in the Input Frame Rate Screen. (➡ P11)

5. Touch [OK] Button.

The display will return to the Edit Frame Rate Screen.

Touch the [Cancel] Button to return to the Edit Frame Rate Screen without changing the value.



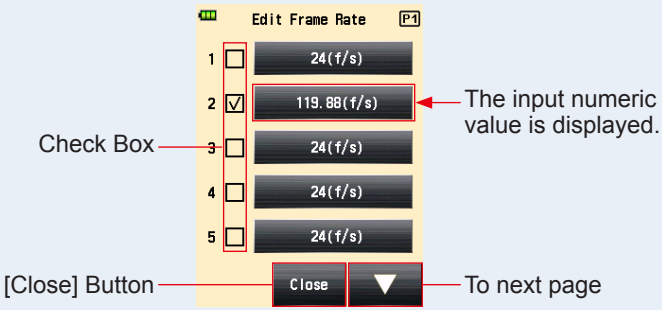
NOTICE

- **The frame rate is set in steps of 0.001 (f/s) within a range from 0.001 to 99,999.999 (f/s). (➡ P198)**
- **The frame rate is not displayed if its box is unchecked.**

6. Check the box of the desired frame rate.

Touch the box (☐) to check it ✓ (check mark ☑). The checked frame rate is displayed after 1,000f/s on the Measured Screen. When the box is unchecked, it is deselected.

Edit Frame Rate Screen



Measuring Screen **Measuring Screen**

7. Touch [Close] Button on the Edit Frame Rate Screen.

The display returns to the Menu Screen.

8. Touch [Close] Button on the Menu Screen.

The display returns to the Measuring Screen.

Edit Frame Rate Screen **Menu Screen, Page 1**

5-1-5 CINE Mode

This mode measures the aperture for input frame rate (f/s), ISO sensitivity and shutter angle.

1) Measuring

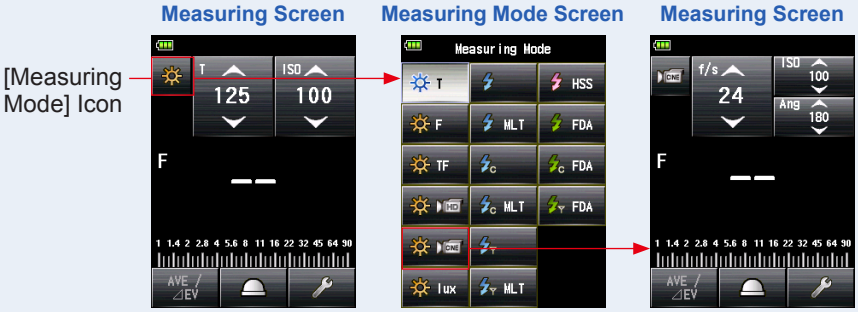
Operation

1. Touch the [Measuring Mode] Icon on the Measuring Screen.

The Measuring Mode Screen is displayed.

2. Touch the icon ( ) on the Measuring Mode Screen.

When it is selected, the display changes to the Measuring Screen.

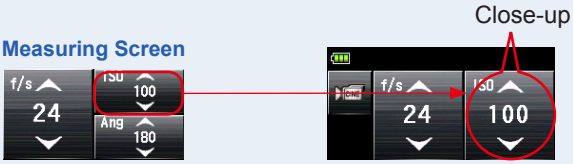


3. Set the light receiving method.

Switch to the Incident light, extended lumisphere ( )/retracted lumisphere ( ), or reflected light. (➡P32, P37)

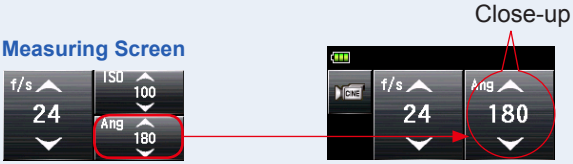
4. Set the ISO sensitivity value on the [ISO] Icon. (➡ P197)

Touch the [ISO] Icon to expand it.
Slide the icon number up or down using your fingertip to set the measured value.
The icon will return to its reduced size after the icon is not touched for a short time.



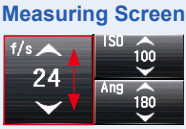
5. Set the shutter angle on the [Ang] Icon.

Touch the [Ang] Icon to expand it.
Set the shutter angle under this condition. The icon will return to its reduced size after the icon is not touched for a short time.
The icon will return to its reduced size after the icon is not touched for a short time.



6. Set the frame rate on the [f/s] Icon. (➡ P198)

Slide the icon number up or down using your fingertip to set the frame rate.



7. Press the Measuring Button ⑥ on the side of the meter to measure the light.

The measured value (F-stop) will be displayed.

While the Measuring Button ⑥ is being pressed, the meter measures continuously until the button is released.

When the Measuring Button ⑥ is released, the measurement is completed. The measured value at that time will be displayed in the measured value/measuring unit display area and on the analog scale. (➡ P22, P24)

Measuring Screen

Measured Value (F-stop)

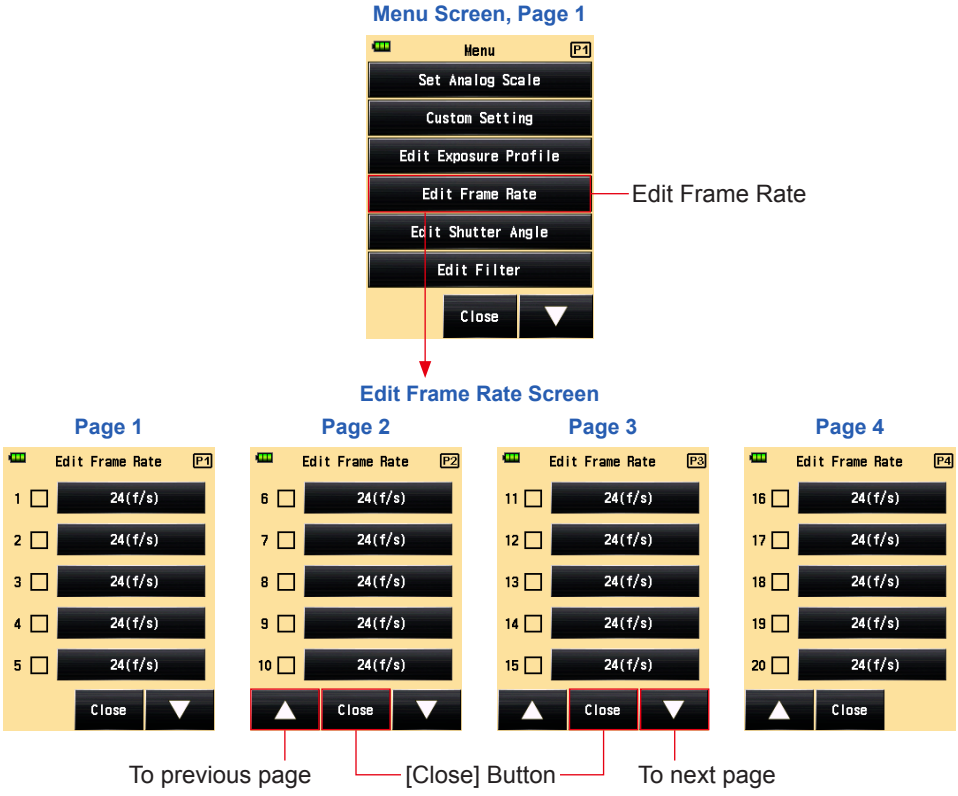
Viewfinder Display (in reflected light measurement)

NOTE

- There are 20 preset of frame rates that can be set at "Edit Frame Rate" in the MENU list. (➡ P63)
- There are 20 preset of shutter angles that can be set at "Edit Shutter Angle" in the MENU list. (➡ P66)
- The T value cannot be set lower than the selected frame rate.

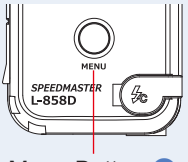
2) Frame Rate Editing

In addition to the standard frame rates available in the meter, up to 20 frame rates can be customized and displayed in the Meter Screen. The stored frame rates can be edited as desired.



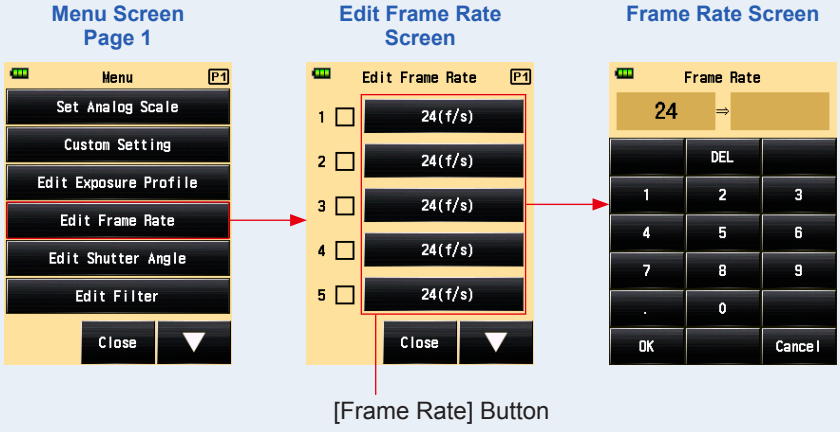
Operation

1. Press the Menu Button 9 on the meter to open the Menu Screen.



2. Touch [Edit Frame Rate] Button to display the Edit Frame Rate Screen.

3. Touch [Frame Rate] Button to display the Frame Rate Screen.

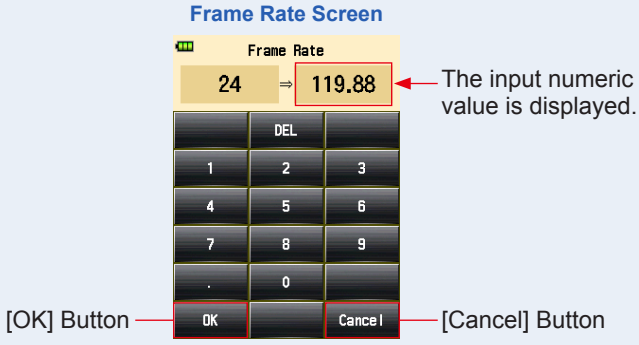


4. Input a numeric value in the Input Frame Rate Screen. (➡ P11)

5. Touch [OK] Button.

The display will return to the Edit Frame Rate Screen.

Touch the [Cancel] Button to return to the Edit Frame Rate Screen without changing the value.

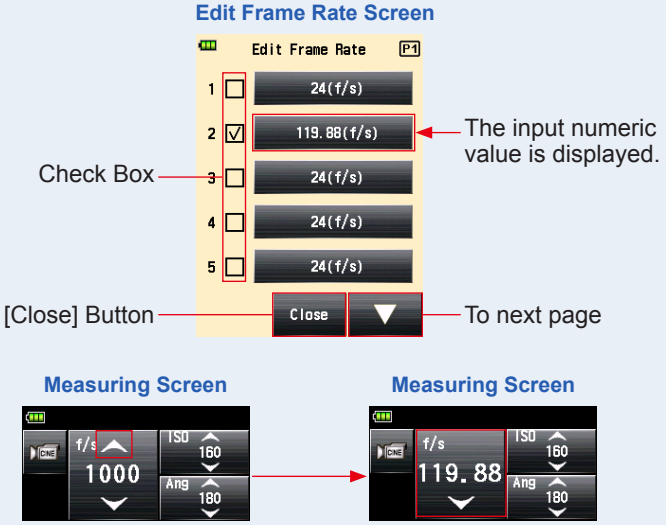


NOTICE

- **The frame rate is set in steps of 0.001 (f/s) within a range from 0.001 to 99,999.999 (f/s). (➡ P198)**
- **The frame rate is not displayed if its box is unchecked.**

6. Check the box of the desired frame rate.

Touch the box (☐) to check it ✓ (check mark ☑). The checked frame rate is displayed after 1000f/s on the Measured Screen. When the box is unchecked, it is deselected.

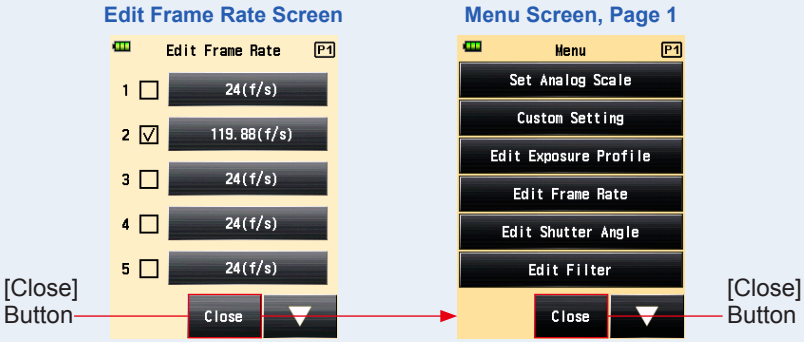


7. Touch [Close] Button on the Edit Frame Rate Screen.

The display returns to the Menu Screen.

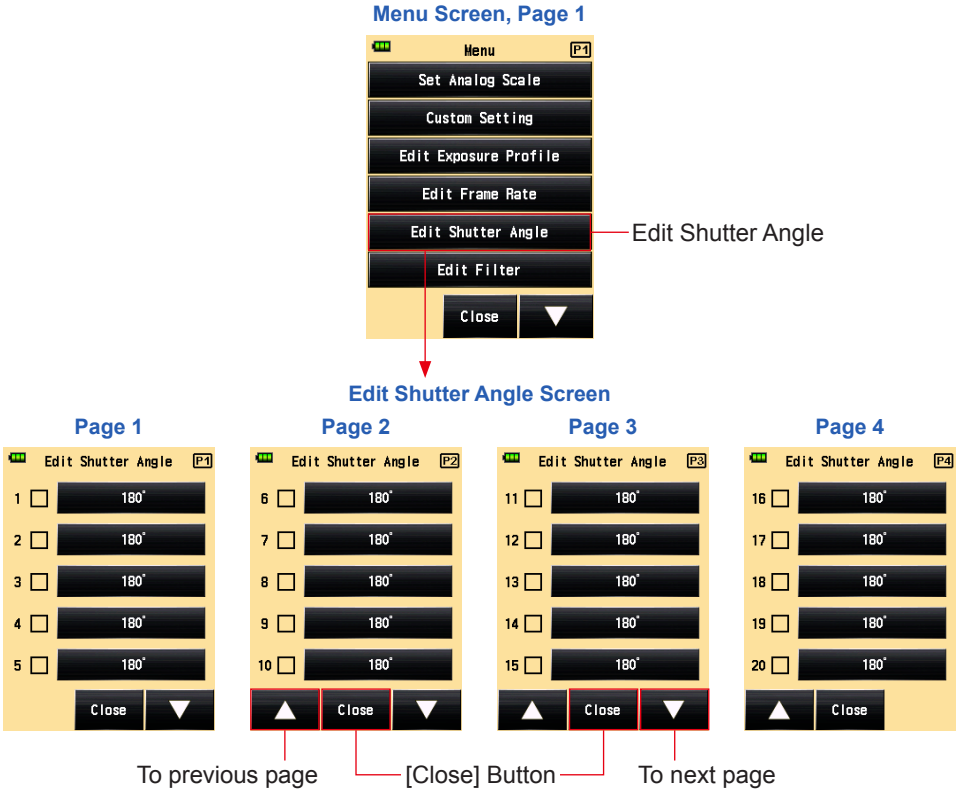
8. Touch [Close] Button on the Menu Screen.

The display returns to the Measuring Screen.



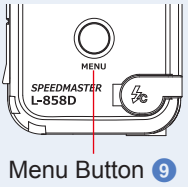
3) Shutter Angle Editing

In addition to the standard shutter angles available in the meter, up to 20 shutter angles can be customized and displayed in the Meter Screen. The input shutter angle can be edited as desired.



Operation

1. Press the Menu Button 9 on the meter to open the Menu Screen.

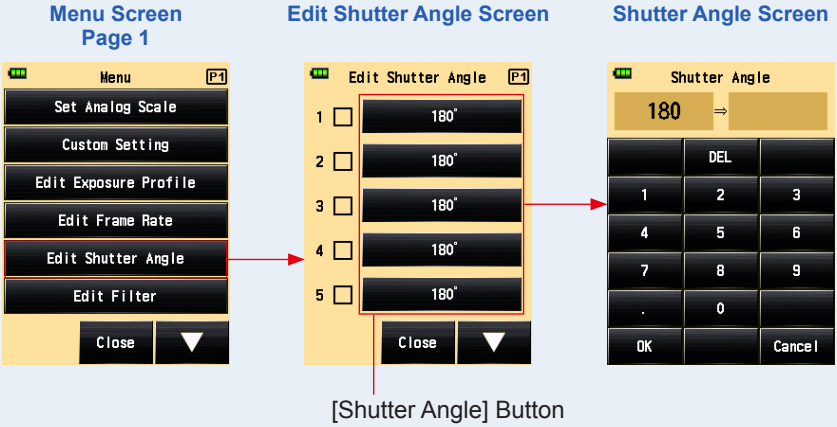


2. Touch the [Edit Shutter Angle] Button.

The Edit Shutter Angle Screen is displayed.

3. Touch the [Shutter Angle] Button.

The Input Shutter Angle Screen is displayed.

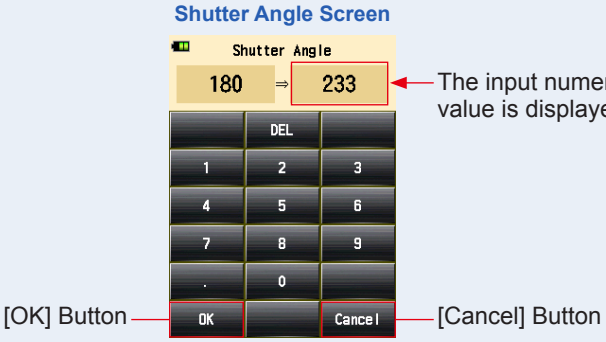


4. Input a numeric value on the Input Shutter Angle Screen. (➡ P11)

5. Touch [OK] Button.

The display will return to the Edit Shutter Angle Screen.

Touch the [Cancel] Button to return to the Edit Shutter Angle Screen without changing the value.

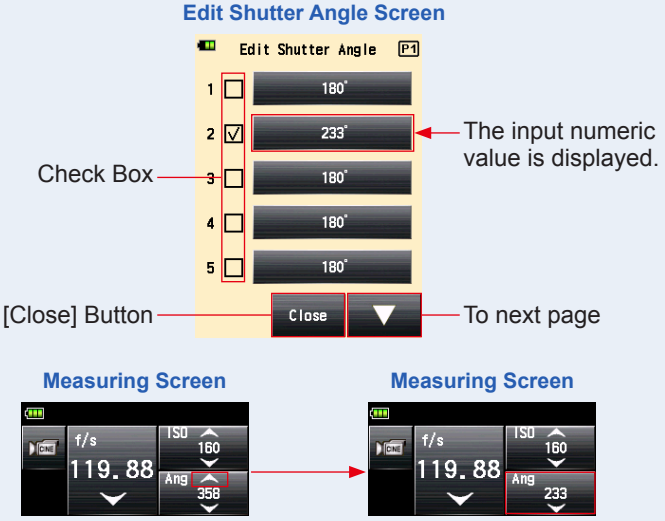


NOTICE

- **Shutter angle is set in steps of 0.001° within a range from 0.001 to 360°.**
- **The frame rate is not displayed if its box is unchecked.**

6. Check the box corresponding to the desired shutter angle.

Touch the box (☐) to check it ✓ (check mark ☑). The checked shutter angle is displayed after Ang 358 on the Measuring Screen. When the box is unchecked, it is deselected. When checked (check mark ☑), an arrow is displayed above Ang 358.



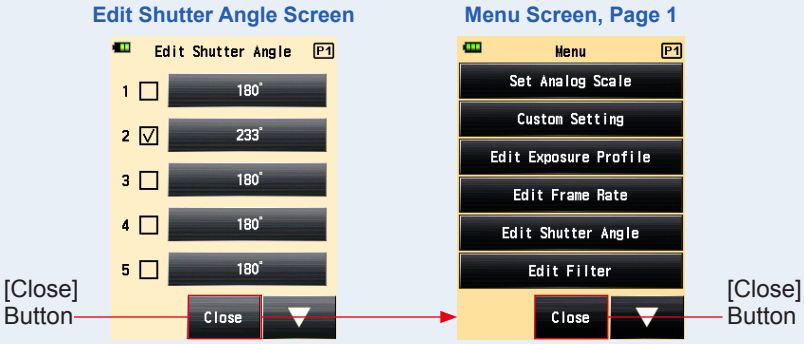
7. Touch the [Close] Button on the Edit Shutter Angle Screen.

The display returns to the Menu Screen.

The added shutter angle is displayed at the end of the sequence on the Measuring Screen.

8. Touch [Close] Button on the Menu Screen.

The display returns to the Measuring Screen.



5-1-6 Illuminance/Luminance Mode

Illuminance is measured using the Incident Light Mode, and luminance is measured using the Reflected Light (Spot) Mode.
The following are the units that can be set. Select the Illuminance/Luminance Unit in the Custom Setting. (➡ P156)

Incident light measurement (Illuminance)	Lux (Unit: lx)	(➡ P69)
	Foot-candle (Unit: fc)	
Reflected light measurement (Luminance) cd/m²	Candela per square meter (Unit: cd/m²)	(➡ P71)
	Foot-lambert (Unit: fl)	

NOTE

Any calibration or exposure compensation will not be in effect when measuring illuminance or luminance.

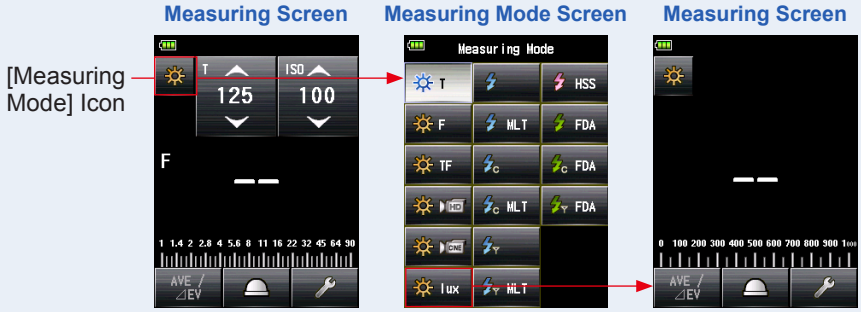
1) Illumination Measuring

Operation

1. Switch the light receiving method to incident light. (➡ P32)

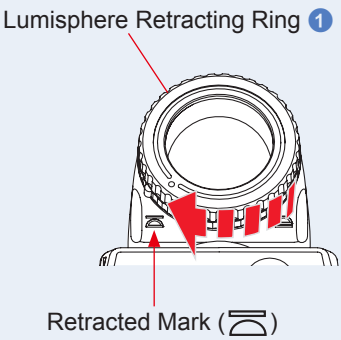
2. Touch the [Measuring Mode] Icon on the Measuring Screen.
The Measuring Mode Screen is displayed.

3. Touch the icon (lux or fc) on the Measuring Mode Screen.
When it is selected, the display changes to the Measuring Screen.

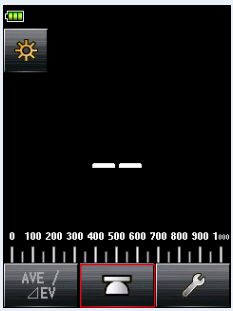


4. Switch to the retracted lumisphere.

If extended lumisphere is selected, rotate the Lumisphere Retracting Ring ❶ to switch to the retracted lumisphere ( ) position.



Measuring Screen



5. Point the light receptor directly toward the light source.

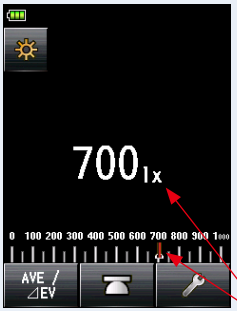
6. Press the Measuring Button ❻ on the side of the meter to measure the light.

The measured illuminance will be displayed in lux (measured value).

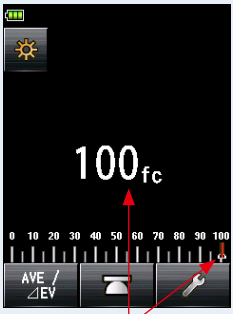
While the Measuring Button ❻ is being pressed, the meter measures continuously until the button is released.

When the Measuring Button ❻ is released, the measurement is completed. The measured value at that time will be displayed in the measured value/measuring unit display area and on the analog scale. (➡ P22)

Measuring Screen



Measuring Screen



2) Luminance Measuring

Operation

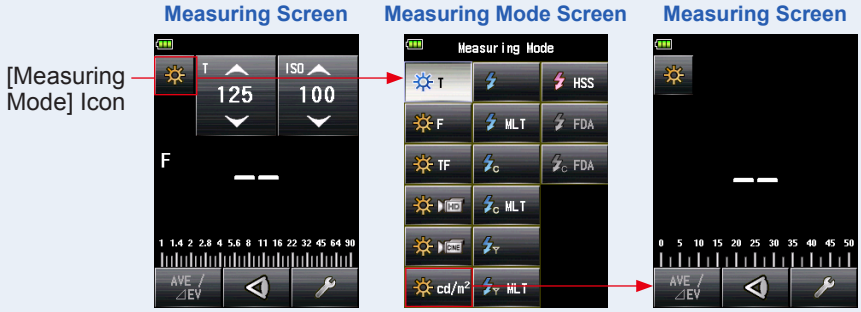
1. Switch the light receiving method to reflected light. (➡ P37)

2. Touch the [Measuring Mode] Icon on the Measuring Screen.

The Measuring Mode Screen is displayed.

3. Touch the icon (cd/m² or fl) on the Measuring Mode Screen.

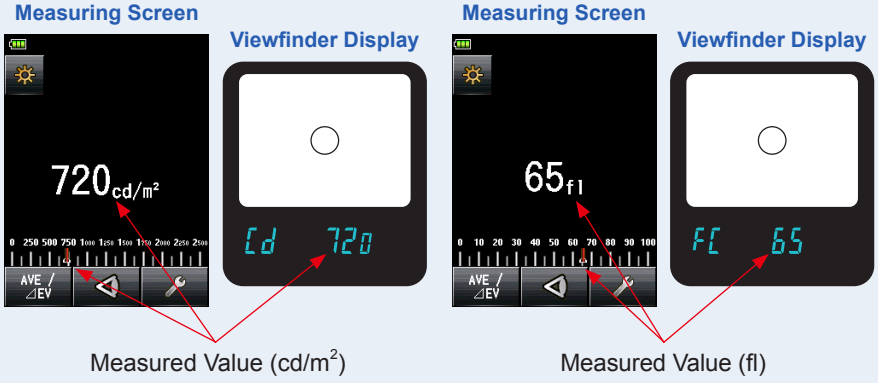
When it is selected, the display changes to the Measuring Screen.



4. While looking through the viewfinder, press the Measuring Button 6 on the side of the meter to measure the light.

While looking through the viewfinder, locate the subject area to be measured within the finder circle.

Press the Measuring Button 6, and the luminance will be displayed in Candelas square meter (measured value).
While the Measuring Button 6 is being pressed, the meter measures continuously until the button is released.
When the Measuring Button 6 is released, the measurement is completed. The measured value at that time will be displayed in the measured value/measuring unit display area and on the analog scale. (➡ P22, P24)

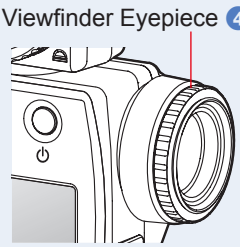


⚠ WARNING

Do not look directly at the sun or an intense light source via the viewfinder. Doing so may damage your eyesight.

NOTE

While looking through the viewfinder, adjust the diopter by rotating the Viewfinder Eyepiece (with diopter adjustment) 4 so that the circle can be seen clearly.



5-2 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. Flash measurement is available in the following modes:

- Cordless Flash Mode
- Cordless Multi (Cumulative) Flash Mode
- Cord (PC) Flash Mode
- Cord Multi (Cumulative) Flash Mode
- Radio Triggering Flash Mode *Available when a transmitter (sold separately) is installed
- Radio Triggering Multi (Cumulative) Flash Mode *Available when a transmitter (sold separately) is installed

Screen Display Details

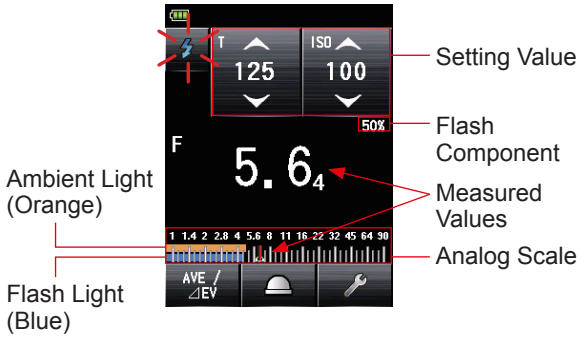
When flash light is measured, f-stop (Ambient brightness + Flash brightness = total exposure) is displayed on the screen.

The ratio of flash light to the total exposure is displayed in steps of 10%.

The analog scale displays the ambient component (orange line) and flash component (blue line).

Example: As shown in the screen below, if the shutter speed is 1/125s and ISO sensitivity is 100, the flash component and ambient light component will be 50%, respectively. The analog scale displays the measured value of both the flash component (blue) and the ambient component (orange), and the photo becomes a little yellowish if the tungsten light is used as the ambient light.

Measuring Screen example in Cordless Flash Mode



Viewfinder Display (in reflected light measurement)

NOTE

- Shutter speed and f-stop (aperture) values can be displayed in 1, 1/2 and 1/3 stop increments in Custom Setting. (➡ P163)
- After taking a measurement, changing a setting value (ISO value or shutter speed) will display the corresponding aperture.
- Touching the [Average] Icon (AVE / ⊿EV) at the bottom of the screen activates the Average or Contrast Function. (➡ P118)
- The Analog Scale display will change according to Measuring Mode, Incident/Reflected and Mid-Tone Mode selected as well as "Set Analog Scale" (Measurement Scale or EV Scale) in Menu list. (➡ P22)
- If the reading is outside the display range or beyond the measuring range, change the aperture or adjust the brightness. (➡ P108)

5-2-1 Cordless Flash Mode

In this Measuring Mode, the meter detects flash brightness without meter-flash connection after Measuring Button 6 pressed to arm meter for 90 seconds and flash fired separately. It displays F-stop value for input shutter speed and ISO sensitiity. 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.

1) Measuring

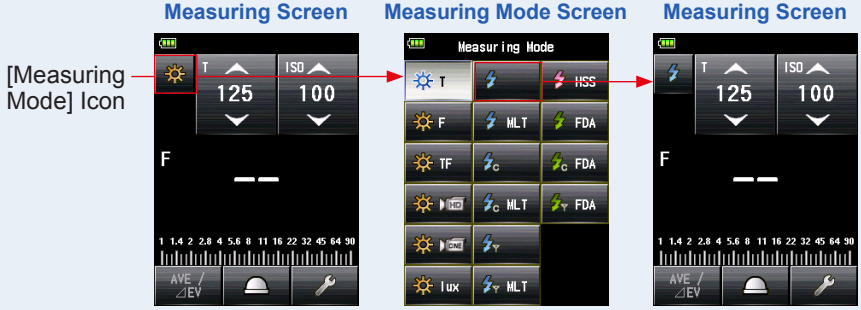
Operation

1. Touch the [Measuring Mode] Icon on the Measuring Screen.

The Measuring Mode Screen is displayed.

2. Touch the icon ( ) on the Measuring Mode Screen.

When it is selected, the display changes to the Measuring Screen.



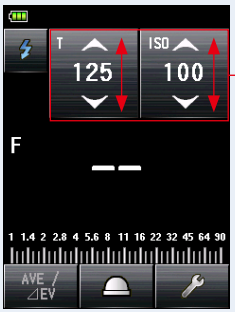
3. Set the light receiving method.

Switch to the Incident light, extended lumisphere ( )/retracted lumisphere ( ), or reflected light. (➡ P32, P37)

4. Set the ISO sensitivity value on the [ISO] Icon. (➡ P197)

5. Set the shutter speed on the [T] Icon. (➡ P197)

Measuring Screen



NOTICE

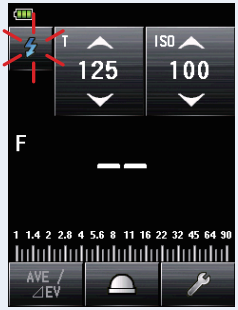
Make sure that the settings are within the specifications of the camera and flash system.

6. Press the Measuring Button 6.

The meter will enter the Measuring Standby Mode, and the [Measuring Mode] Icon ( ) will blink for 90 seconds.

The LCD screen dims and stands by.

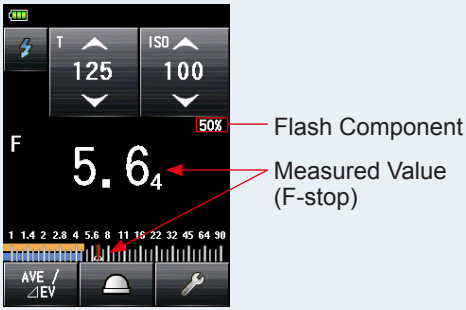
Measuring Screen



7. Trigger the flash unit manually while the [Measuring Mode] Icon ( ) is blinking.

When the flash light is detected, the measurement is made automatically and the measured value (F-stop) is displayed.

Measuring Screen



NOTICE

In case of the following, please follow "5-2-3 Cord Flash Mode". (➡ P85)

- **When firing the flash, if the flash brightness is lower than the ambient light, the meter may fail to detect the 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.**
- **The waveform of a flash bulb has a slight slope and there is a possibility that the light meter cannot recognize the flash bulb in Cordless Flash Mode.**

NOTE

- In the Cordless Flash Mode, the backlight of the LCD screen dims and is only illuminated for three seconds after measurement.
- After the measurement, the meter enters the 90-second Standby Mode again. If you need to measure again, fire the flash during this time.
- If the measured values are stored in the memory, the Measurement Standby Mode is canceled.
- If the icon stops blinking before the flash fires, repeat Steps 6 and 7.
- To stop the Standby Mode, just touch the screen.
- It is convenient to set the light meter in a fixed position during the measuring time. This can be accomplished by mounting the meter on a tripod or stand using the tripod socket on the bottom of the meter.

2) Number of Pre-flash

For red-eye prevention and auto-flash light adjustment, some devices can pre-flash before main flash burst.
With the normal setting, the light meter will measure the pre-flash bursts and not the main flash burst. To take a successful reading, activate the pre-flash feature in the Tool Box.

Operation

1. Touch the [Tool Box] Icon ( ) on the Measuring Screen.

The Tool Box Screen is displayed.

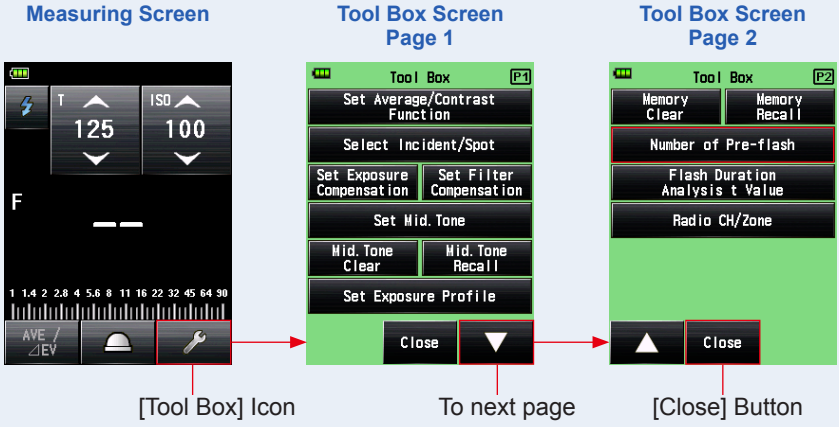
2. Touch the [Next Page] Icon ( ) of the Tool Box to display the Tool Box showing [Number of Pre-flash].

This button is enabled if Flash Mode is selected. If it is grayed out, check the Measuring Mode.

3. Touch the [Number of Pre-flash] Button of the Tool Box.

The Number of Pre-flash Screen is displayed.

If you do not change this number, touch the [Close] Button.

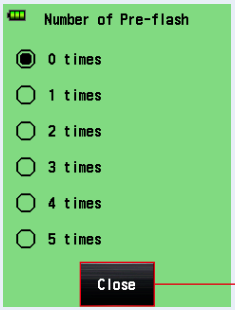


4. Touch the radio button of the [Number of Pre-flash] Button.

Set the number of pre-flash on the Number of Pre-flash Screen.
The display returns to the Measuring Screen.

If you do not change this number, touch the [Close] Button to return to the Measuring Screen.

Number of Pre-flash Screen



NOTE

The amount of pre-flashes fired by a flash unit can be different for different camera brands. Check the camera manual for number fired by your camera system.

5-2-2 Cordless Multi (Cumulative) Flash Mode

This Measuring Mode is used when the light generated by the flash at one time is inadequate for the desired F-stop setting. Repeated flash pops can be accumulated until the desired F-stop value is displayed.
When the Measuring Button 6 is pressed, the light meter is set to the Standby Mode (90 seconds) and makes a measurement by activating the flash. The measured value (F-stop) is displayed for each trigger of the flash.
The cumulative count is infinite. Up to 99 times is displayed in the Status/Title field, however, the cumulative count returns to 0(zero) for more than 100 times (0=100, 1=101, 2=102, etc.).

1) Measuring

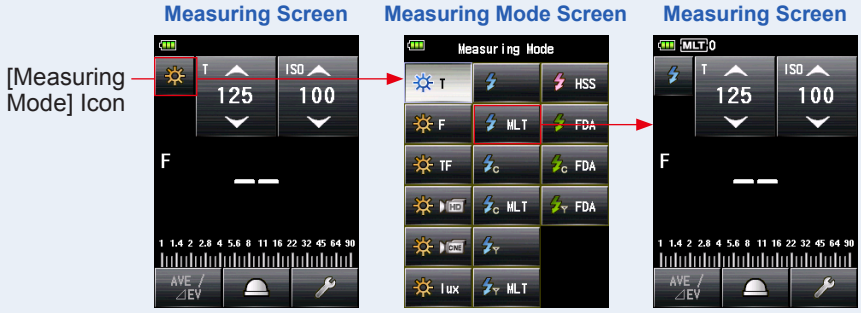
Operation

1. Touch the [Measuring Mode] Icon on the Measuring Screen.

The Measuring Mode Screen is displayed.

2. Touch the icon (MLT) on the Measuring Mode Screen.

When it is selected, the display changes to the Measuring Screen.



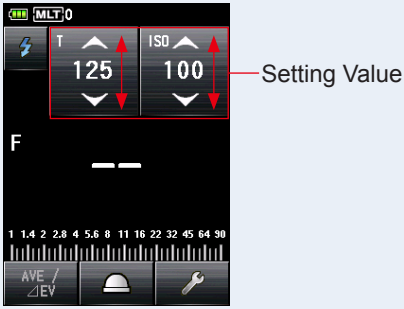
3. Set the light receiving method.

Switch to the Incident light, extended lumisphere ( )/retracted lumisphere ( ), or reflected light. (➡ P32, P37)

4. **Set the ISO sensitivity value on the [ISO] Icon.** (➡ P197)

5. **Set the shutter speed on the [T] Icon.** (➡ P197)

Measuring Screen



NOTICE

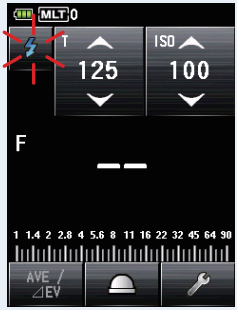
Make sure that the settings are within the specifications of the camera and flash system.

6. **Press the Measuring Button ⑥.**

The meter will enter the Measuring Standby Mode, and the [Measuring Mode] Icon ( ) will blink for 90 seconds.

The LCD screen dims and stands by.

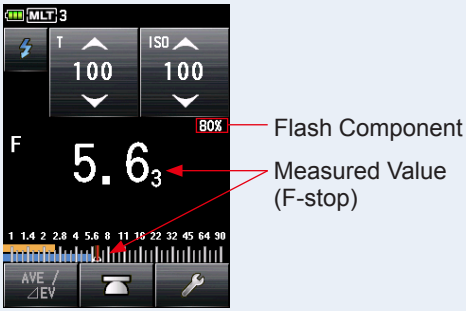
Measuring Screen



7. Trigger the flash unit manually while the [Measuring Mode] Icon ( ) is blinking.

When the flash light is detected, the measurement is made automatically and the measured value (F-stop) is displayed. Repeat triggering the flash unit until the desired F-stop is displayed during the Standby Mode.

Measuring Screen



NOTICE

- **In case of the following, please follow "5-2-4 Cord Multi (Cumulative) Flash Mode". (➡ P87)**
  - **When firing the flash, if the flash brightness is significantly lower than the ambient light, the meter may fail to detect the 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.**
  - **The waveform of a flash bulb has a slight slope and there is a possibility that the light meter cannot recognize the flash bulb in Cordless Flash Mode**
- **The EV scale cannot be displayed in this Measuring Mode.**

NOTE

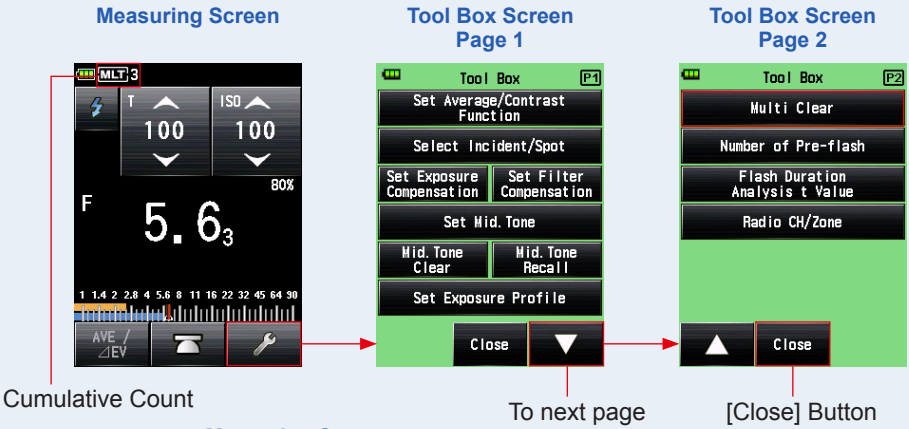
- In the Cordless Multiple (Cumulative) Flash Mode, the backlight of the LCD screen dims and is only illuminated for three seconds after measurement.
- After the measurement, the meter enters the 90-second Standby Mode again. If you need to measure again, fire the flash during this time.
- If the measured values are stored in the memory, the Measurement Standby Mode is canceled.
- If the icon stops blinking before the flash fires, repeat Steps 6 and 7.
- To stop the Standby Mode, just touch the screen.
- It is convenient to set the light meter in a fixed position during the measuring time. This can be accomplished by mounting the meter on a tripod or stand using the tripod socket on the bottom of the meter.

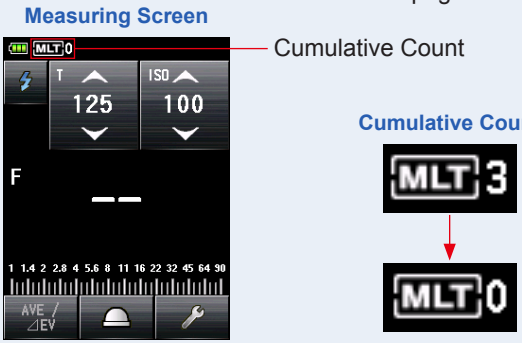
2) Multi Clear

Clears the cumulative count.

Operation

1. **Touch the [Tool Box] Icon ( ) on the Measuring Screen.**
   The Tool Box Screen is displayed.
2. **Touch the [Next Page] Icon ( ) of the Tool Box to display the Tool Box showing [Multi Clear].**
   This button is only enabled during measurement.
   If the button is grayed out, the cumulative measurement is not made and the count cannot be cleared.
3. **Touch the [Multi Clear] Button of the Tool Box.**
   The cumulate value is cleared, and the display returns to the Measuring Screen.
   If you do not change the value, touch the [Close] Button. The display returns to the Measuring Screen.





NOTE

When the standby state is released and when the Measuring Button 6 is pressed again, the measuring will start with a cumulative count of "0".

3) Number of Pre-flash

For red-eye prevention and auto-flash light adjustment, some devices can pre-flash before main flash burst.
With the normal setting, the light meter will measure the pre-flash bursts and not the main flash burst. To take a successful reading, activate the pre-flash feature in the Tool Box.

Operation

1. Touch the [Tool Box] Icon ( ) on the Measuring Screen.

The Tool Box Screen is displayed.

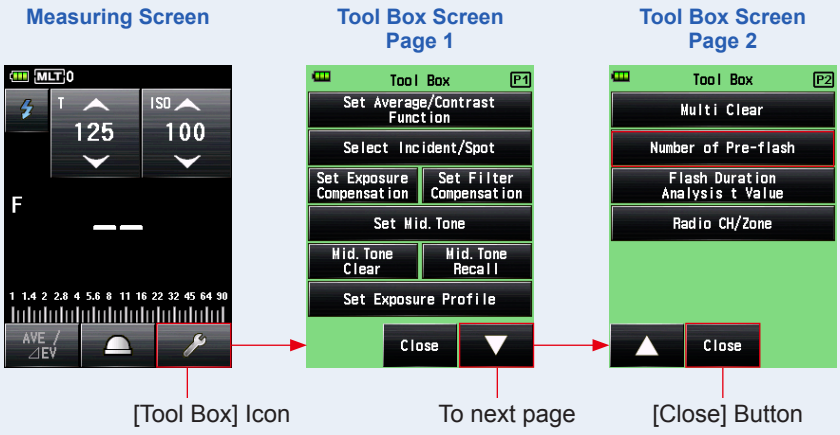
2. Touch the [Next Page] Icon ( ) of the Tool Box to display the Tool Box showing [Number of Pre-flash].

This button is enabled if Flash Mode is selected.
If it is grayed out, check the Measuring Mode.

3. Touch the [Number of Pre-flash] Button of the Tool Box.

The Number of Pre-flash Screen is displayed.

If you do not change this number, touch the [Close] Button.

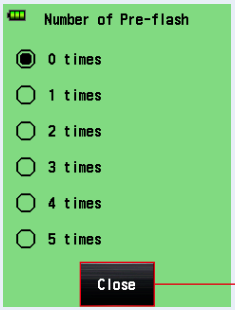


4. Touch the radio button of the [Number of Pre-flash] Button.

Set the number of pre-flash on the Number of Pre-flash Screen.
The display returns to the Measuring Screen.

If you do not change this number, touch the [Close] Button to return to the Measuring Screen.

Number of Pre-flash Screen



NOTE

The amount of pre-flashes fired by a flash unit can be different for different camera brands. Check the camera manual for number fired by your camera system.

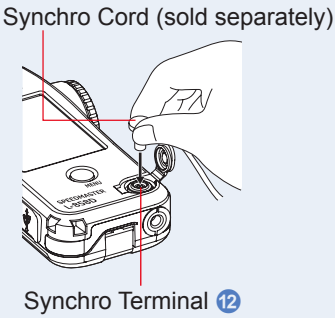
5-2-3 Cord Flash Mode

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 6, the meter trigger the flash unit and displays F-stop value.

Operation

1. Connect the synchro cord (sold separately), which is connected to the flash, to the meter. (➡ P195)

Connect the synchro cord (sold separately) to the meter's Synchro Terminal 12.

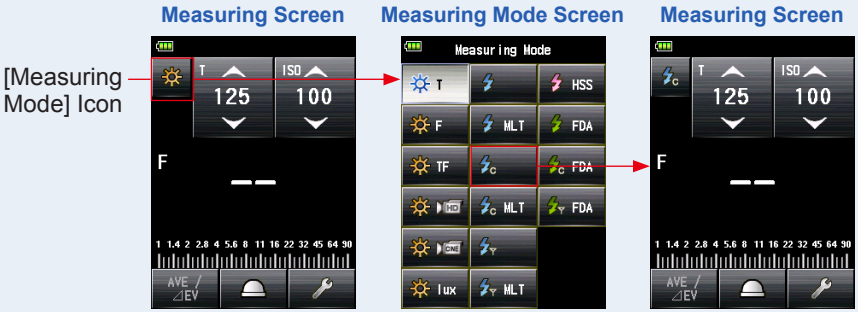


2. Touch the [Measuring Mode] Icon on the Measuring Screen.

The Measuring Mode Screen is displayed.

3. Touch the icon ( ) on the Measuring Mode Screen.

When it is selected, the display changes to the Measuring Screen.



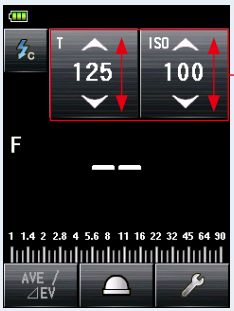
4. Set the light receiving method.

Switch to the Incident light, extended lumisphere ( )/retracted lumisphere ( ), or reflected light. (➡ P32, P37)

5. Set the ISO sensitivity value on the [ISO] Icon. (➡ P197)

6. Set the shutter speed on the [T] Icon. (➡ P197)

Measuring Screen



Setting Value

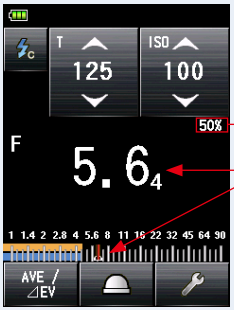
NOTICE

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

7. Press the Measuring Button ❻.

The flash will fire and the measured value (F-stop) will be displayed.

Measuring Screen



Flash Component

Measured Value (F-stop)

NOTICE

- When the synchro cord is connected to the Synchro Terminal ⓬ or when the meter's Power Button ❺ is operated, the flash may fire.
- Also, the flash may not fire when the trigger voltage is very low. In such a case, follow "5-2-1 Cordless Flash Mode". (➡ P74)

5-2-4 Cord Multi (Cumulative) Flash Mode

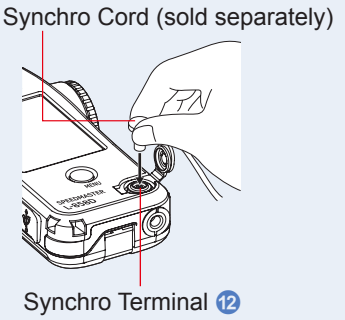
This Measuring Mode is used when the light generated by the flash at one time is inadequate for the desired F-stop setting. Repeated flash pops can be accumulated until the desired F-stop value is displayed. The measured value (F-stop) is displayed for each trigger of the flash. The cumulative count is displayed in the Status/Title field. The cumulative count is infinite. Up to 99 times is displayed in the Status/Title field, however, the cumulative count returns to 0(zero) for more than 100 times (0=100, 1=101, 2=102, etc.).

1) Measuring

Operation

1. Connect the synchro cord (sold separately), which is connected to the flash, to the meter. (➡ P195)

Connect the synchro cord (sold separately) to the meter's Synchro Terminal ⑫.

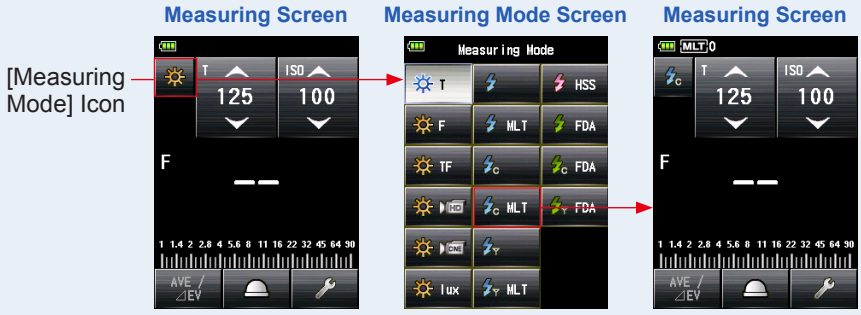


2. Touch the [Measuring Mode] Icon on the Measuring Screen.

The Measuring Mode Screen is displayed.

3. Touch the icon (MLT) on the Measuring Mode Screen.

When it is selected, the display changes to the Measuring Screen.



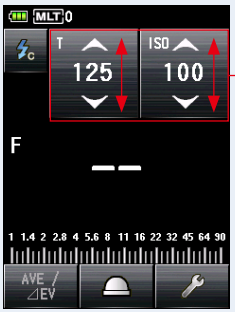
4. Set the light receiving method.

Switch to the Incident light, extended lumisphere ( )/retracted lumisphere ( ), or reflected light. (➡ P32, P37)

5. **Set the ISO sensitivity value on the [ISO] Icon.** (➡ P197)

6. **Set the shutter speed on the [T] Icon.** (➡ P197)

Measuring Screen



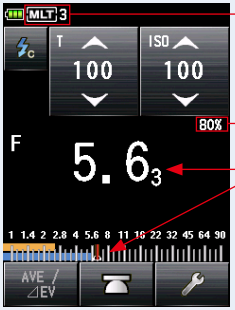
NOTICE

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

7. **Press the Measuring Button ⑥.**

The accumulated measured value (F-stop) and the number of cumulative flashes will be displayed. Press the Measuring Button ⑥ until the desired F-stop is displayed.

Measuring Screen



NOTICE

- When the synchro cord is connected to the Synchro Terminal ⑫ or when the meter's Power Button ⑤ is operated, the flash may fire.
- Also, the flash may not fire when the trigger voltage is very low. In such a case, follow "5-2-2 Cordless Multi (Cumulative) Flash Mode". (➡ P79)
- The EV scale cannot be displayed in this Measuring Mode.

2) Multi Clear

Clears the cumulative count.

Operation

1. Touch the [Tool Box] Icon ( ) on the Measuring Screen.

The Tool Box Screen is displayed.

2. Touch the [Next Page] Icon ( ) of the Tool Box to display the Tool Box showing [Multi Clear].

This button is only enabled during measurement.
If the button is grayed out, the cumulative measurement is not made and the count cannot be cleared.

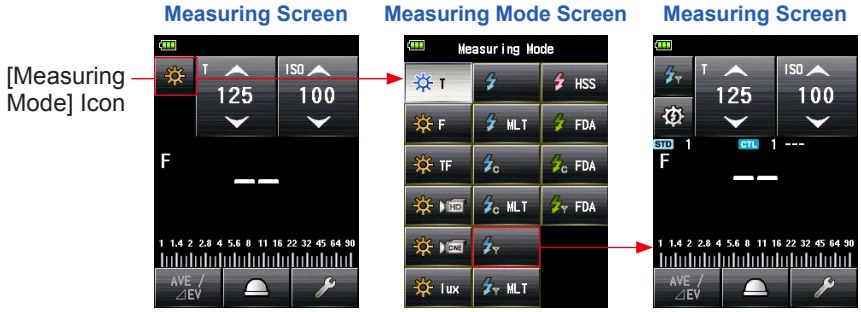
3. Touch the [Multi Clear] Button of the Tool Box.

The cumulate value is cleared, and the display returns to the Measuring Screen.

If you do not change the value, touch the [Close] Button. The display returns to the Measuring Screen.

5-2-5 Radio Triggering Flash Mode

(Available when a transmitter sold separately is installed)
The meter detects flash brightness after Measuring Button 6 is pressed to send radio transmitted signal to radio receiver connected to flash. Displays F-stop value for input ISO sensitivity and shutter speed. Depending on the radio system in use, the meter controls the output power of flash units and the modeling lamps with turning ON/OFF.
For details, see the operating manual of the transmitter (sold separately). (➡P196)



NOTE

It may not be possible to adjust the light quantity of the modeling lamp depending on the flash unit or EL-Skyport receiver used.

5-3 HSS (High Speed Synchro) Flash Cordless Mode

Measures the HSS (High Speed Synchro) or FP flash.

NOTICE

The HSS flash can be measured in Cordless Mode only.

5-3-1 HSS (High Speed Synchro) Flash Cordless Mode

Select this mode to measure the brightness of a flash activated in HSS (High Speed Synchro) Mode. Press the Measuring Button ⑥ without a meter-flash connection. When the flash brightness is detected, the F-stop is measured for input shutter speed and ISO sensitivity.

1) Measuring

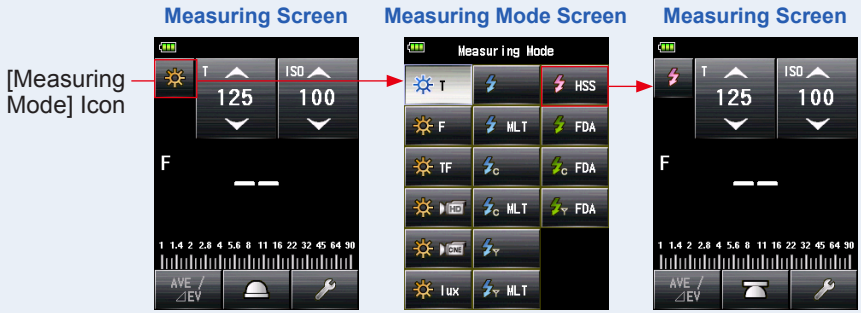
Operation

1. Touch the [Measuring Mode] Icon on the Measuring Screen.

The Measuring Mode Screen is displayed.

2. Touch the icon (HSS) on the Measuring Mode Screen.

When it is selected, the display changes to the Measuring Screen.



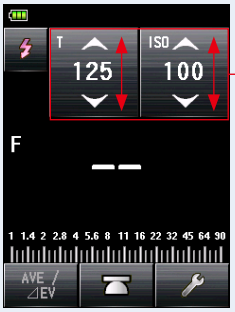
3. Set the light receiving method.

Switch to the Incident light, extended lumisphere ( )/retracted lumisphere ( ), or reflected light. (➡ P32, P37)

4. Set the ISO sensitivity value on the [ISO] Icon. (➡ P197)

5. Set the shutter speed on the [T] Icon. (➡ P197)

Measuring Screen



NOTICE

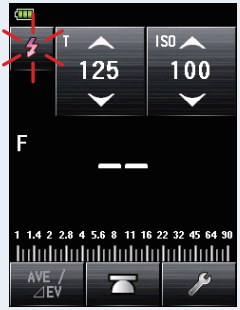
Make sure that the settings are within the specifications of the camera and flash system.

6. Press the Measuring Button 6.

The meter will enter the Measuring Standby Mode, and the [Measuring Mode] Icon ( ) will blink for 90 seconds.

The LCD screen dims and stands by.

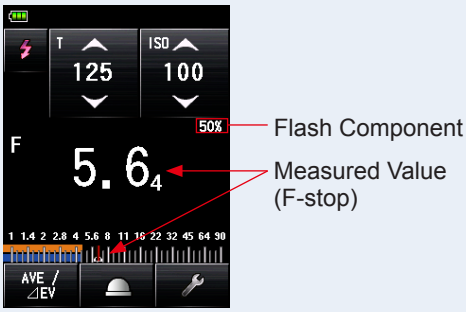
Measuring Screen



7. When the [Measuring Mode] Icon ( ) is blinking, release the shutter button of the camera that is set to HSS Flash Mode to fire the flash unit.

When the flash light is detected, the measurement is made automatically and the measured value (F-stop) is displayed.

Measuring Screen



NOTE

- In the HSS Cordless Flash Mode, the backlight of the LCD screen dims and is only illuminated for three seconds after measurement.
- After the measurement, the meter enters the 90-second Standby Mode again. If you need to measure again, fire the flash during this time.
- If the measured values are stored in the memory, the Measurement Standby Mode is canceled.
- If the icon stops blinking before the flash fires, repeat Steps 6 and 7.
- To stop the Standby Mode, just touch the screen.
- It is convenient to set the light meter in a fixed position during the measuring time. This can be accomplished by mounting the meter on a tripod or stand using the tripod socket on the bottom of the meter.

2) Number of Pre-flash

For red-eye prevention and auto-flash light adjustment, some devices can pre-flash before main flash burst.
With the normal setting, the light meter will measure the pre-flash bursts and not the main flash burst. To take a successful reading, activate the pre-flash feature in the Tool Box.

Operation

1. Touch the [Tool Box] Icon ( ) on the Measuring Screen.

The Tool Box Screen is displayed.

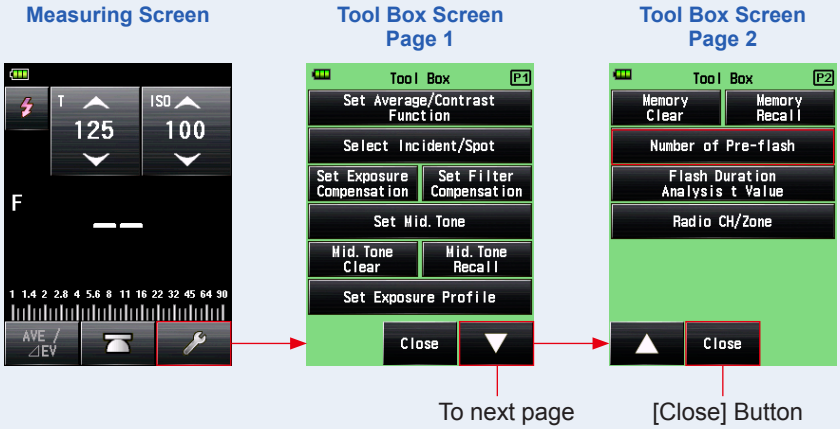
2. Touch the [Next Page] Icon (▼) of the Tool Box to display the Tool Box showing [Number of Pre-flash].

This button is enabled if Flash Mode is selected. If it is grayed out, check the Measuring Mode. (➡ P44)

3. Touch the [Number of Pre-flash] Button of the Tool Box.

The Number of Pre-flash Screen is displayed.

If you do not change this number, touch the [Close] Button.

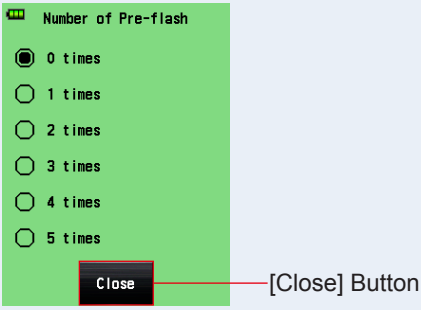


4. Touch the radio button of the [Number of Pre-flash] Button.

Set the number of pre-flash on the Number of Pre-flash Screen.
The display returns to the Measuring Screen.

If you do not change this number, touch the [Close] Button to return to the Measuring Screen.

Number of Pre-flash Screen



NOTE

The amount of pre-flashes fired by a flash unit can be different for different camera brands. Check the camera manual for number fired by your camera system.

5-4 Measuring in Flash Duration Analysis Mode

In the Flash Duration Analysis Mode, F-stop, flash duration time and graph of flash waveform can be measured for input shutter speed and ISO sensitivity. Flash Duration Analysis is performed with incident light Measuring Mode only. Flash duration measurement is available in the following modes:

- Flash Duration Analysis Cordless Mode
- Flash Duration Analysis Cord Mode
- Flash Duration Analysis Radio Triggering Mode *Available when a transmitter (sold separately) is installed

5-4-1 Flash Duration Analysis Cordless Mode

Press the Measuring Button ⑥ without a meter-flash connection. When the flash brightness is detected, F-stop, flash duration time and graph of flash waveform are measured for input shutter speed and ISO sensitivity.

1) Measuring

Operation

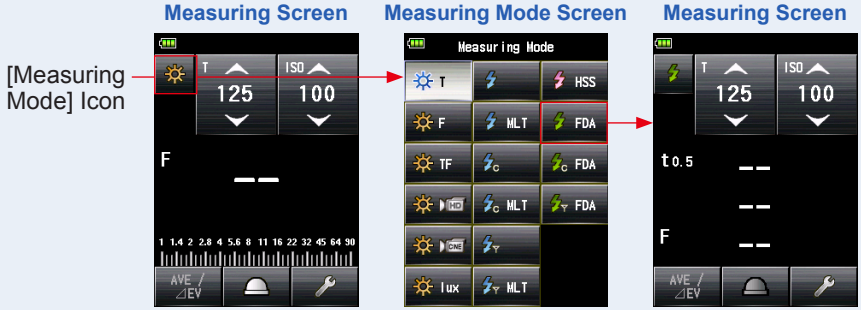
1. Touch the [Measuring Mode] Icon on the Measuring Screen.

The Measuring Mode Screen is displayed.

2. Touch the icon (FDA) on the Measuring Mode Screen.

When it is selected, the display changes to the Measuring Screen.

If the Reflected Light Mode is set, the Flash Duration Analysis Mode cannot be selected. Before switching to the Measuring Mode Selection Screen, set the light receiving method to the incident light and select the Flash Duration Analysis Mode.



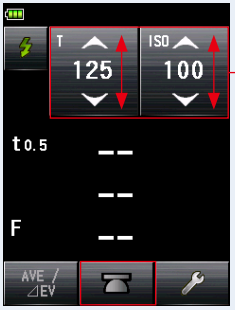
3. Set the light receiving method.

Incident light system Switch to the extended lumisphere ( )/retracted lumisphere ( ). (➡P32)

4. Set the ISO sensitivity value on the [ISO] Icon. (➡P197)

5. Set the shutter speed on the [T] Icon. (➡P197)

Measuring Screen



NOTICE

- **Make sure that the settings are within the specifications of the camera and flash system.**
- **If the measured flash duration time is longer than the input shutter speed, an appropriate F-stop cannot be measured. The yellow "Under" indication appears. In this case, slower the shutter speed than the flash duration time and measure again.**

Measuring Screen

6. Set the Flash Duration Analysis t value. (➡P100)

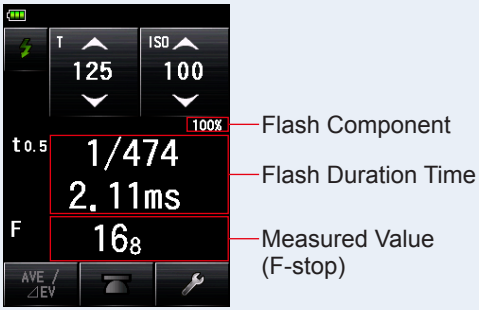
7. Press the Measuring Button 6.

The meter will enter the Measuring Standby Mode, and the [Measuring Mode] Icon ( ) will blink for 90 seconds. The LCD screen dims and stands by.

8. Trigger the flash unit manually while the [Measuring Mode] Icon ( ) is blinking.

When the flash light is detected, the measurement is made automatically and the measured value (F-stop) will be displayed.

Measuring Screen



NOTICE

- **The flash duration time and graph are displayed in the Flash Duration Analysis Mode, however, they cannot be stored in the memory.**
  They are cleared if the Measuring Mode is changed or the POWER switch is turned OFF.
- **The incident light measurement can only be used in Flash Duration Analysis Mode.**
- **During 90 Seconds Standby Mode, the meter receives and measure the flash light only once, and does not enter the Standby Mode. Repeat the procedure 7. and 8. above to measure again and manually trigger the flash units.**
- **In case of the following, please follow "5-4-2 Flash Duration Analysis Code Mode". (➡ P102)**
  - **When firing the flash, if the flash brightness is lower than the ambient light, the meter may fail to detect the 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.**
  - **The waveform of a flash bulb has a slight slope and there is a possibility that the light meter cannot recognize the flash bulb in Cordless Flash Mode.**

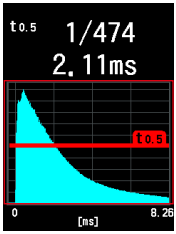
NOTE

- When the measured value display area is touched, both flash waveform graph and measured value are displayed. When it is touched again, the display returns to the previous screen.

Measuring Screen

Touching the Measured value area changes the display.

Flash Duration Analysis Cordless Mode Flash Waveform Graph Screen



* The Graph Screen cannot be used to make measurements.

- Measure the flash light characteristics in a darkroom without ambient light.
- When using a pre-flashing light, set the [Number of Pre-flash] of the Tool Box. (➡ P98)
- It is convenient to set the light meter in a fixed position during the measuring time. This can be accomplished by mounting the meter on a tripod or stand using the tripod socket on the bottom of the meter.

2) Number of Pre-flash

For red-eye prevention and auto-flash light adjustment, some devices can pre-flash before main flash burst.
With the normal setting, the light meter will measure the pre-flash bursts and not the main flash burst. To take a successful reading, activate the pre-flash feature in the Tool Box.

Operation

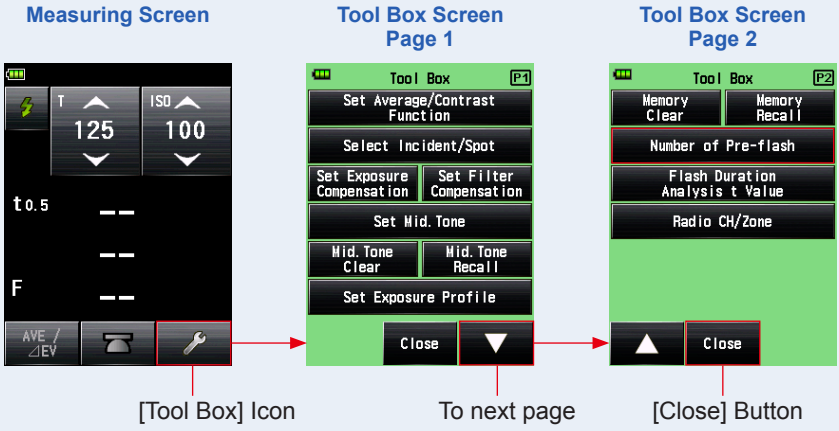
1. **Touch the [Tool Box] Icon ( ) on the Measuring Screen.**
   The Tool Box Screen is displayed.

2. **Touch the [Next Page] Icon ( ) of the Tool Box to display the Tool Box showing [Number of Pre-flash].**
   This button is enabled if Flash Mode is selected. If it is grayed out, check the Measuring Mode.

3. Touch the [Number of Pre-flash] Button of the Tool Box.

The Number of Pre-flash Screen is displayed.

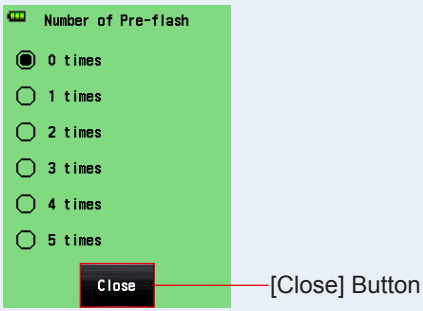
If you do not change this number, touch the [Close] Button.



4. Touch the radio button of the [Number of Pre-flash] Button.

Set the number of pre-flash on the Number of Pre-flash Screen.
The display returns to the Measuring Screen.

If you do not change this number, touch the [Close] Button to return to the Measuring Screen.



NOTE

The amount of pre-flashes fired by a flash unit can be different for different camera brands. Check the camera manual for number fired by your camera system.

3) Flash Duration Analysis t Value

The t value can be set in steps of 0.1 at a range of 0.1 to 0.9.
The flash duration time varies depending on the input t value.

Operation

1. Touch the [Tool Box] Icon ( ) on the Measuring Screen.

The Tool Box Screen is displayed.

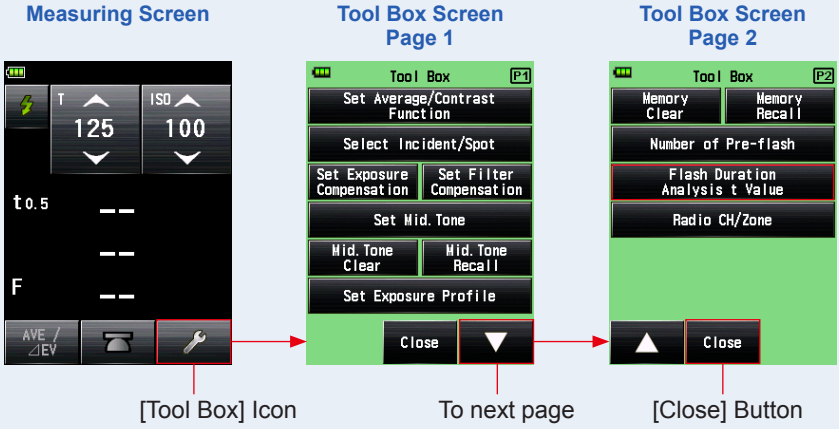
2. Touch the [Next Page] Icon ( ) of the Tool Box to display the Tool Box showing [Flash Duration Analysis t Value].

This button is enabled if Flash Duration Analysis Mode is selected. If it is not grayed out, check the Measuring Mode.

3. Touch the [Flash Duration Analysis t Value] Button of the Tool Box.

The Flash Duration Analysis t Value Screen is displayed.

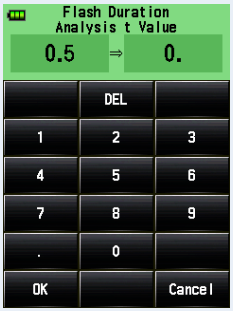
If you do not change this number, touch the [Close] Button.



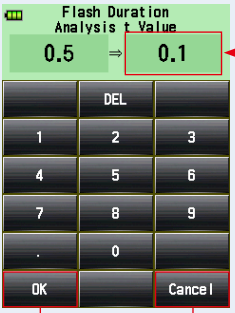
4. Input the "Reference" of 0.1 to 0.9 by touching the numeric value.

The t value can be set in steps of 0.1 at a range of 0.1 to 0.9.
The first "0." is fixed. Input the first digit decimal only. (To set "0.1", input "1".)

Flash Duration Analysis t Value Screen



Flash Duration Analysis t Value Screen



The input numeric value is displayed.

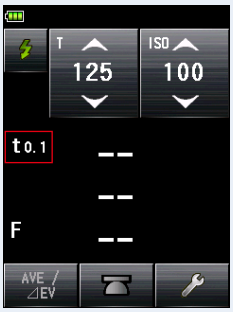
[OK] Button [Cancel] Button

5. Touch [OK] Button.

The setting is input, and the display returns to the Measuring Screen.

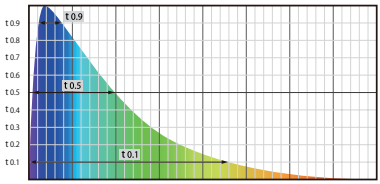
Touch the [Cancel] Button to return to the Measuring Screen without making the modification.

Measuring Screen



NOTE

Two rules apply to the reference flash duration time.
t0.5 = Effective flash duration time
t0.1 = Total flash duration time
After flash firing, the time at which the maximum intensity drops by half is called "t0.5". The time at which the maximum intensity drops to 1/10 is called "t0.1".
Generally, "t0.5" is called the flash duration time.



5-4-2 Flash Duration Analysis Code Mode

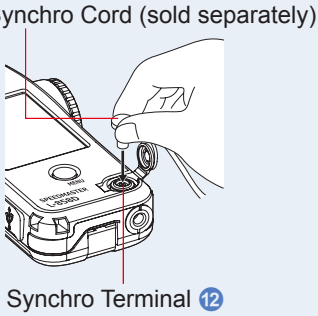
Press the Measuring Button ⑥ with a meter-flash connection. When the flash brightness is detected, F-stop, flash duration time and graph of flash waveform are measured for input shutter speed and ISO sensitivity.

1) Measuring

Operation

1. Connect the synchro cord (sold separately), which is connected to the flash, to the meter. (➡ P195)

Connect the synchro cord (sold separately) to the meter's synchro terminal ⑫.



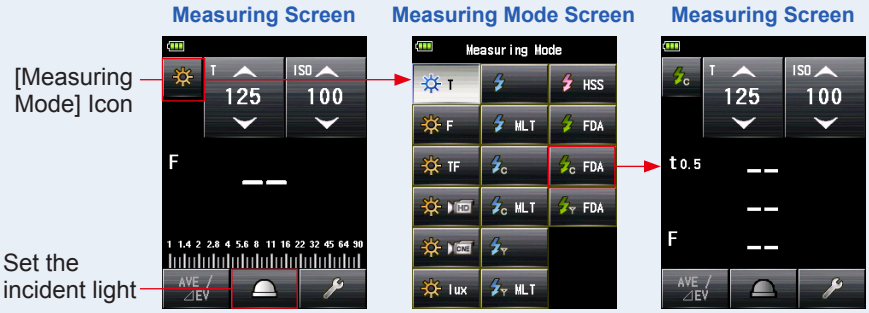
2. Touch the [Measuring Mode] Icon on the Measuring Screen.

The Measuring Mode Screen is displayed.

3. Touch the icon (FDA) on the Measuring Mode Screen.

When it is selected, the display changes to the Measuring Screen.

If the Reflected Light Mode is set, the Flash Duration Analysis Mode cannot be selected. Before switching to the Measuring Mode Selection Screen, set the light receiving method to the incident light and select the Flash Duration Analysis Mode.



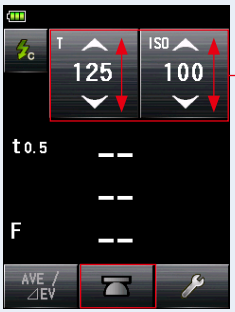
4. Set the light receiving method.

Incident light system Switch to the extended lumisphere ( )/retracted lumisphere ( ). (➡ P32)

5. **Set the ISO sensitivity value on the [ISO] Icon.** (➡ P197)

6. **Set the shutter speed on the [T] Icon.** (➡ P197)

Measuring Screen



Setting Value

NOTICE

- Make sure that the settings are within the specifications of the camera and flash system.
- If the measured flash duration time is longer than the input shutter speed, an appropriate F-stop cannot be measured. The yellow "Under" indication appears. In this case, slower the shutter speed than the flash duration time and measure again.

Measuring Screen

7. **Set the Flash Duration Analysis t value.** (➡ P105)

8. **Press the Measuring Button ❻.**

The flash will fire and the measured value (F-stop) will be displayed.

Measuring Screen

Flash Component

Flash Duration Time

Measured Value (F-stop)

NOTICE

- **The flash duration time and graph are displayed in the Flash Duration Analysis Mode, however, they cannot be stored in the memory.**
  They are cleared if the Measuring Mode is changed or the POWER switch is turned OFF.
- **The incident light measurement can only be used in Flash Duration Analysis Mode.**
- **When the synchro cord is connected to the Synchro Terminal ⑫ or when the meter's Power Button ⑤ is pressed, the flash may fire.**
- **Also, the flash may not fire when the trigger voltage is very low. In such a case, follow "5-4-1 Flash Duration Analysis Cordless Mode". (➡ P95)**

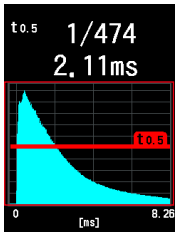
NOTE

- When the measured value display area is touched, both flash waveform graph and measured value are displayed. When it is touched again, the display returns to the previous screen.

Measuring Screen

Touching the Measured value area changes the display.

Flash Duration Analysis Mode Flash Waveform Graph Screen

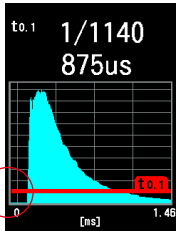


* The Graph Screen cannot be used to make measurements.

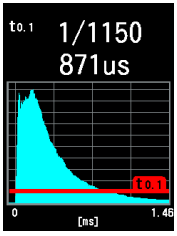
- Measure the flash light characteristics in a darkroom without ambient light.
- In this Flash Duration Analysis Cord Mode, when triggered, energy in the electronic flash unit's capacitor is applied to flash tube to create a light pulse. The L-858D's graphic display, below, shows the entire flash cycle. The lag time between trigger to peak output (far left side of graph) will vary depending on the specifications and design of the flash system you are using.

Flash Duration Analysis Mode Flash Waveform Graph Screen

Time-lag



Cord Flash Mode



Cordless Flash Mode

2) Flash Duration Analysis t Value

The t value can be set in steps of 0.1 at a range of 0.1 to 0.9.
The flash duration time varies depending on the input t value.

Operation

1. Touch the [Tool Box] Icon ( ) on the Measuring Screen.

The Tool Box Screen is displayed.

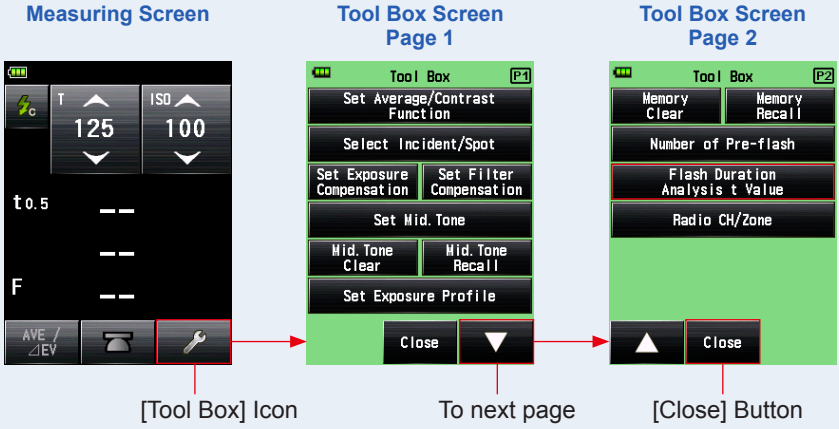
2. Touch the [Next Page] Icon ( ) of the Tool Box to display the Tool Box showing [Flash Duration Analysis t Value].

This button is enabled if Flash Duration Analysis Mode is selected. If it is not grayed out, check the Measuring Mode.

3. Touch the [Flash Duration Analysis t Value] Button of the Tool Box.

The Flash Duration Analysis t Value Screen is displayed.

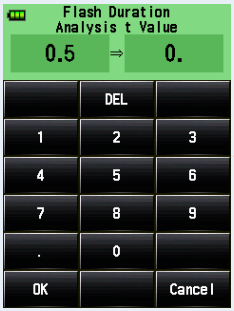
If you do not change this number, touch the [Close] Button.



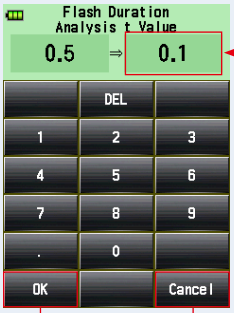
4. Input the "Reference" of 0.1 to 0.9 by touching the numeric value.

The t value can be set in steps of 0.1 at a range of 0.1 to 0.9.
The first "0." is fixed. Input the first digit decimal only. (To set "0.1", input "1".)

Flash Duration Analysis t Value Screen



Flash Duration Analysis t Value Screen



The input numeric value is displayed.

[OK] Button [Cancel] Button

5. Touch [OK] Button.

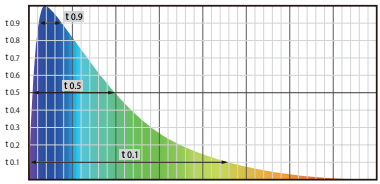
The setting is input, and the display returns to the Measuring Screen.

Touch the [Cancel] Button to return to the Measuring Screen without making the modification.

Measuring Screen

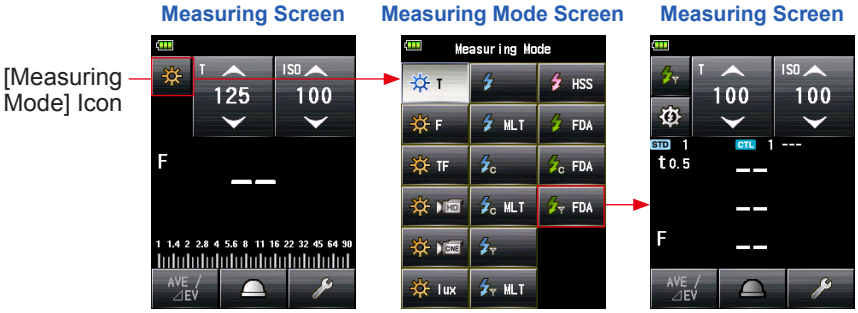
NOTE

Two rules apply to the reference flash duration time.
t0.5 = Effective flash duration time
t0.1 = Total flash duration time
After flash firing, the time at which the maximum intensity drops by half is called "t0.5". The time at which the maximum intensity drops to 1/10 is called "t0.1".
Generally, "t0.5" is called the flash duration time.



5-4-3 Flash Duration Analysis Radio Triggering Mode

(Available when a transmitter sold separately is installed)
The meter detects flash brightness after Measuring Button 6 is pressed to send radio transmitted signal to radio receiver connected to flash. F-stop, flash duration time and graph of flash waveform are displayed for input ISO sensitivity and shutter speed. Depending on the radio system in use, the meter controls the output power of flash units and the modeling lamps with turning ON/OFF.
For details, see the operating manual of the transmitter (sold separately). (➡ P196)



NOTE

It may not be possible to adjust the light quantity of the modeling lamp depending on the flash unit or EL-Skyport receiver used.

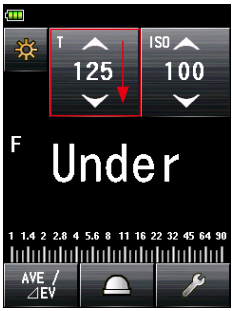
5-5 Out of Displayed Range or Measuring Range

(* This example explains what needs to be done in Cord Flash Mode.)

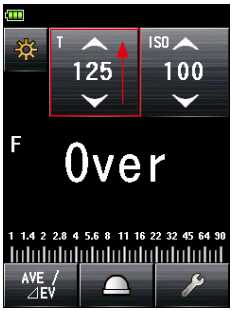
5-5-1 When Displayed Range Is Exceeded

For any given shutter speed and ISO setting, "Under" or "Over" is displayed if the measured value (F-stop) exceeds the display range even if it is within measuring range. In these cases, take the following actions.

Under Exposure display



Over Exposure display



Viewfinder Display

Viewfinder Display

1) When Under Exposure "Under" Is Displayed:

If "Under" is displayed when the measured value (F-stop) is lower than the minimum f-stop (F0.5), slower the shutter speed on the [T] Icon, set higher ISO sensitivity or increase the flash brightness to measure it again.
The correct F-stop will be displayed for input values.

2) When Over Exposure "Over" Is Displayed:

If "Over" is displayed when the measured value (F-stop) is higher than the maximum f-stop (F128.9), faster the shutter speed on the [T] Icon, set lower ISO sensitivity or reduce the flash brightness to measure it again.
The correct F-stop will be displayed for input values.

5-5-2 When Measuring Range Is Exceeded

When the amount of light is outside the measuring range of the meter, "Over" and "Under" will appear and blink.
When this occurs, adjust the brightness level to obtain a measurement.

When brightness is under the measuring range

Viewfinder Display

When brightness is over the measuring range

Viewfinder Display

NOTE

Display Range

ISO sensitivity	ISO 3 to ISO 13,107,200 (in 1/3 steps)	
Shutter speed	Ambient light	30 min to 1/64,000 sec, 1/200, 1/400 (in 1, 1/2, 1/3 steps)
	Flash light	30 min to 1/16,000 sec, 1/75, 1/80, 1/90, 1/100, 1/200, 1/400 (in 1, 1/2, 1/3 steps)
Aperture	F0.5 to F128.9 (in 1 steps) F0.5 to F152.4 (in 1/2 steps) F0.5 to F161.2 (in 1/3 steps)	
Flash duration time	1/40 to 1/55,500 sec (25 ms to 18 us)	

Measuring Range (ISO100)

Ambient light	Incident light system -5EV to EV22.9 Reflected light system -1EV to EV24.4
Flash light	Incident light system F0.5 to F128.9 Reflected light system F1.0 to F128.9
Illuminance	0.1 to 2,000,000 lx
Luminance	0.1 to 980,000 cd/m^2

6. Functions

6-1 Memory Function

This meter can save measured values in the memory. This function is available in the following Measuring Modes.

Ambient Mode
- T Priority Mode
- F Priority Mode
- TF Priority Mode
- HD Cine Mode
- Cine Mode

Flash Mode
- Cord in (PC) Mode
- Cordless Mode
- Radio Triggering Mode

HSS Flash Mode
- HSS Flash Cordless Mode

You can save (in the memory) and recall up to nine measured values regardless of whether the incident light system or reflected light system is selected.

NOTE

- When you have used the incident light system to save measured values in the memory and then changed the system to the reflected light system, the measured values that are saved in the memory using the incident light system are maintained. Then, you can newly display measured values saved in the memory using the reflected light system.
- In Ambient Mode, the measured values saved in the memory are maintained even if the mode is switched.
  In Flash Mode, the measured values saved in the memory are not maintained if the mode is switched.

6-1-1 How to Save Values in the Memory

Operation

1. Press the Measuring Button 6.

The measured value at that time will be displayed.

In Ambient Mode, while the Measuring Button 6 is held down, the meter continues to make measurements.

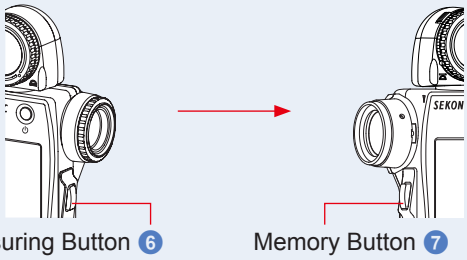
When the Measuring Button 6 is released, the measurement ends. The measured value at that time will be displayed in the measured value/measuring unit display area and on the analog scale. (➡ P22, P24)

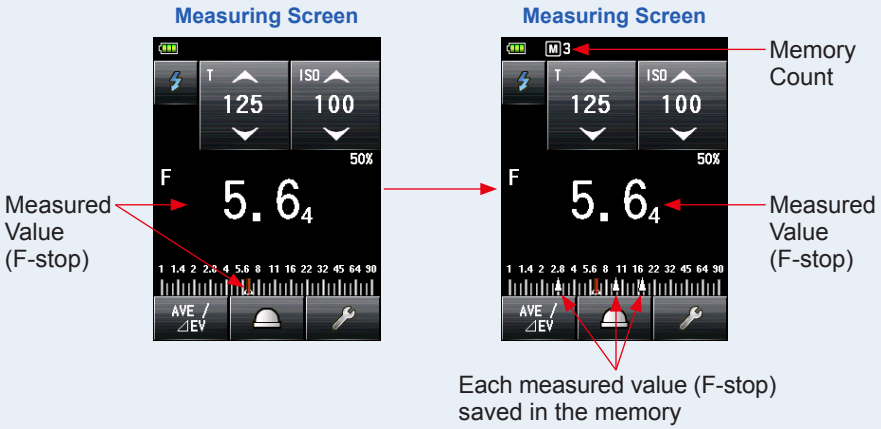
2. Press the Memory Button 7.

The measured value is saved in the memory. The measured value saved in the memory is displayed as a dot on the analog scale.

3. Repeat Steps 1 and 2.

This meter can store up to nine measured values in the memory.





NOTICE

The Memory Function cannot be used in the following Measuring Modes.

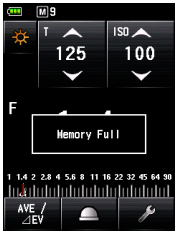
- **Cord Multi (Cumulative) Flash Mode**
- **Cordless Multiple (Cumulative) Flash Mode**
- **Illuminance/Luminance Measuring Mode**
- **Flash Duration Analysis Mode**

NOTE

Memory count warning

Up to nine measured values can be saved in the memory. If you attempt to save a 10th or subsequent measured value, the "Memory Full" warning message will be displayed, and the measured value cannot be saved in the memory.

Measuring Screen

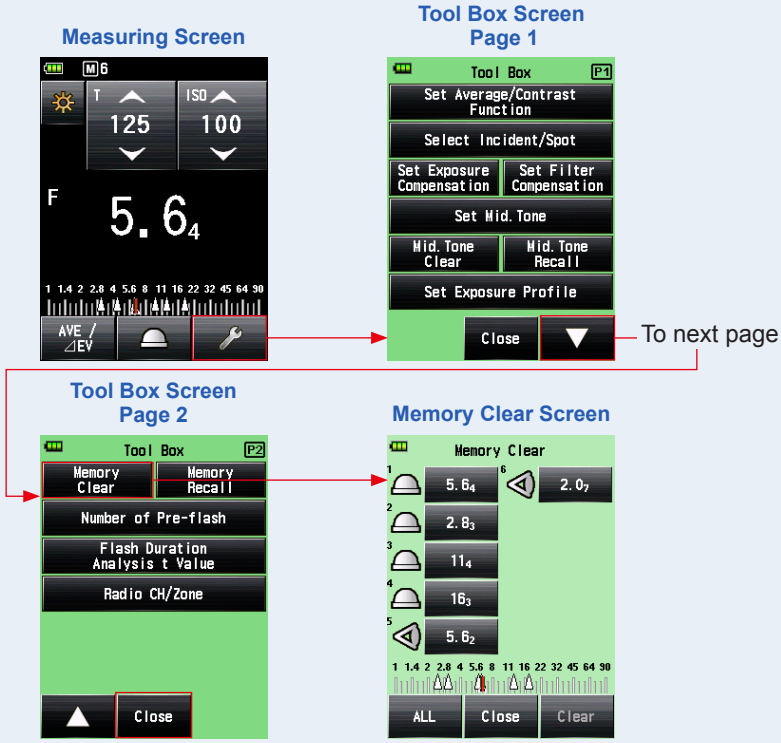


6-1-2 Memory Clear

This function individually or collectively clears measured values that are saved in the memory. The Memory Clear Screen displays memory information (memory count, incident light ( ) or reflected light ( ), and measured value) in the order in which they are saved in the memory.
Measured values that are saved in the memory are displayed as dots ( ) on the analog scale.

Operation

1. **Touch the [Tool Box] Icon ( ) on the Measuring Screen.**
   The Tool Box Screen is displayed.
2. **Touch the [Next Page] Icon ( ) on the Tool Box Screen.**
   This displays the Tool Box Screen that shows [Memory Clear].
3. **Touch the [Memory Clear] Button on the Tool Box Screen.**
   The Memory Clear Screen is displayed.



1) Individual Clear

Operation

1. Select the memory value to be deleted on the Memory Clear Screen.

Multiple memory values are selectable.

2. Touch [Clear] Button.

This changes the display to the Selected Memory Clear Confirmation Screen, and the "Selected memory is cleared. Are you sure?" message is displayed.

When you touch [Close] Button, the display returns to the Measuring Screen without clearing the memory value.

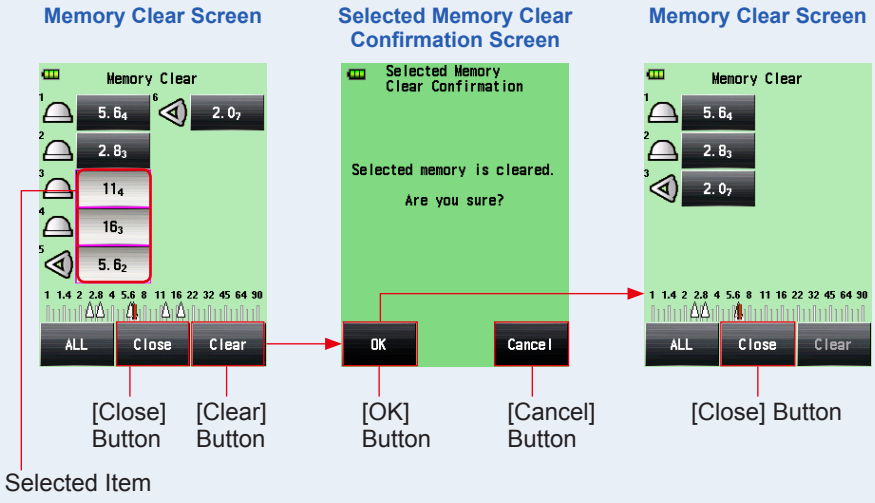
3. Touch [OK] Button.

The selected item is cleared, and the display returns to the Memory Clear Screen. The contents are displayed without a space.

When you touch [Cancel] Button, the display returns to the Memory Clear Screen without clearing the memory value.

4. Touch [Close] Button on the Memory Clear Screen.

The display returns to the Measuring Screen.



2) Collective Clear

The measured values that are saved in the memory can be cleared collectively.

Operation

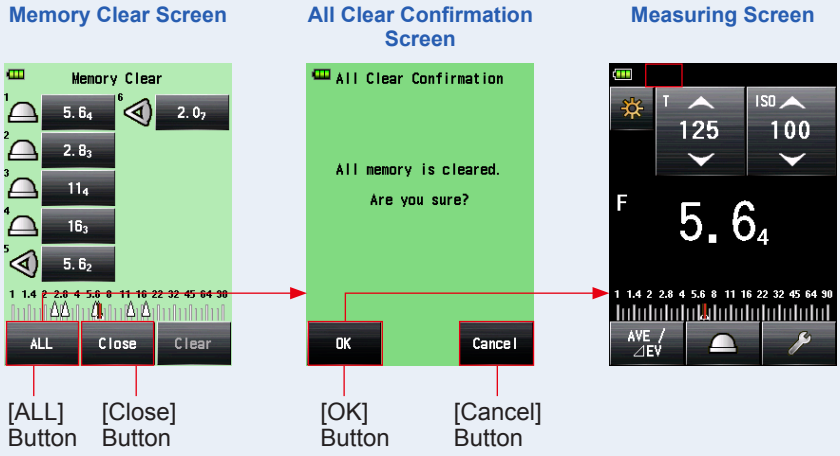
1. Touch [ALL] Button on the Memory Clear Screen.

This changes the display to the All Clear Confirmation Screen, and the "All memory is cleared. Are you sure?" message is displayed.

2. Touch [OK] Button.

All the memory values are cleared, and the display returns to the Measuring Screen.

When you touch [Cancel] Button, the display returns to the Memory Clear Screen without clearing the memory value.



6-1-3 Memory Recall

This function recalls the measured values that are saved in the memory to enable the user to view details. This screen displays memory information (memory count, incident light ( ) or reflected light ( ), and measured value) in the order in which they are saved in the memory. Measured values that are saved in the memory are displayed as dots ( ) on the analog scale.

Operation

1. Touch the [Tool Box] Icon ( ) on the Measuring Screen.

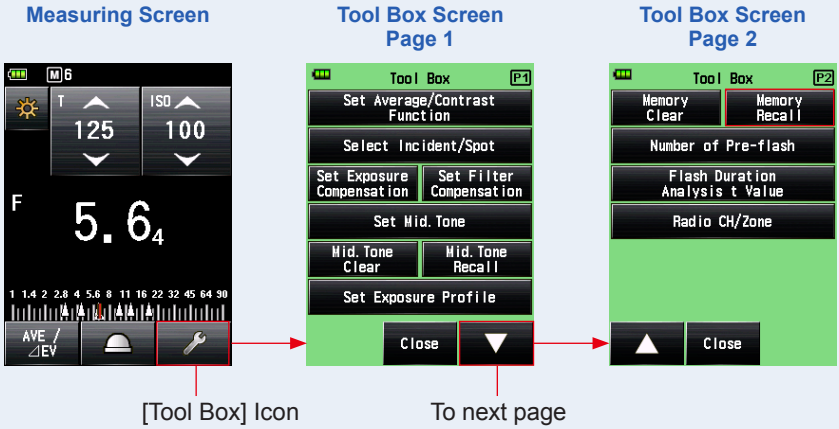
The Tool Box Screen is displayed.

2. Touch the [Next Page] Icon ( ) on the Tool Box Screen.

This displays the Tool Box Screen that shows [Memory Recall].

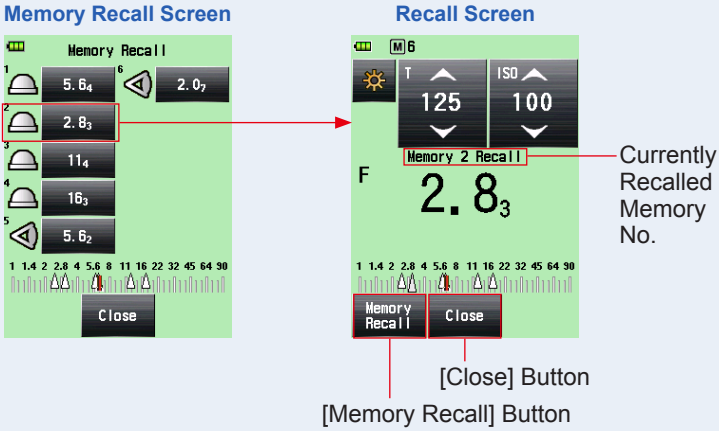
3. Touch the [Memory Recall] Button on the Tool Box Screen.

The Memory Recall Screen is displayed. (Up to nine measured values in the memory)



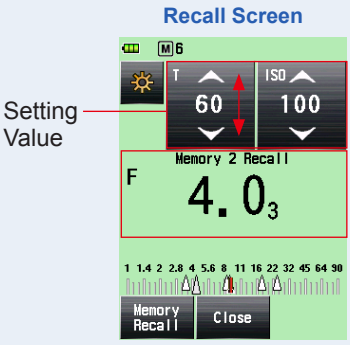
4. Touch the item to be recalled.

Contents saved in the memory are displayed on the Measuring Screen. (Green background)



NOTE

- In Ambient Mode, the measured values saved in the memory are maintained even if the mode is switched. Values saved in the memory in each Measuring Mode are displayed in the value type corresponding to the measurement mode in which memory recall was carried out.
  Example: When an ISO value is saved in the memory in TF Priority Mode, if it is recalled in T Priority Mode, the f-stop value is displayed.
- As the setting value is changed on the Memory Recall Screen, the measured value (memory recall value) is also changed.



5. Touch [Memory Recall] Button.

If you touch [Memory Recall] Button on the Recall Screen to display another memory value, the display returns to the Memory Recall Screen.

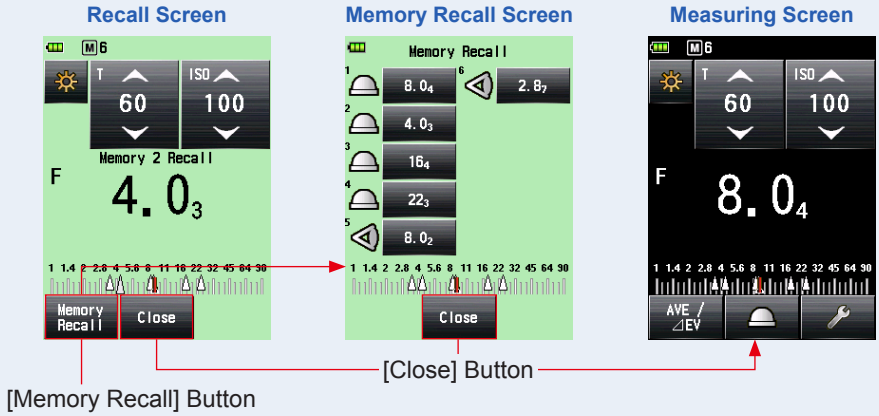
If you touch [Close] Button, the display returns to the Measuring Screen instead of returning to the Memory Recall Screen.

6. Touch [Close] Button.

If you touch [Close] Button, the display returns to the Measuring Screen instead of returning to the Memory Recall Screen.

7. Touch [Close] Button on the Memory Recall Screen.

The display returns to the Measuring Screen.

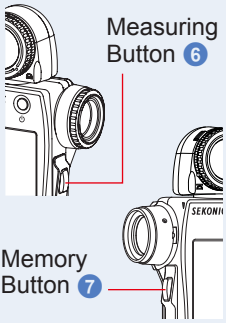


6-2 Average/Contrast Function

1) Average Function

This function averages up to nine measured values that are saved in the memory, and displays the result. This function is available in Ambient Mode (T Priority, F Priority, TF Priority, HD Cine, and Cine Mode), Flash Mode (Cord, Cordless, and Radio Triggering), and HSS Flash Mode.

Operation



1. Press the Measuring Button 6.

Press this button to make a measurement.

2. Press the Memory Button 7.

The measured value is saved in the memory. Each measured value that is saved in the memory is displayed as a dot ( ) on the analog scale.

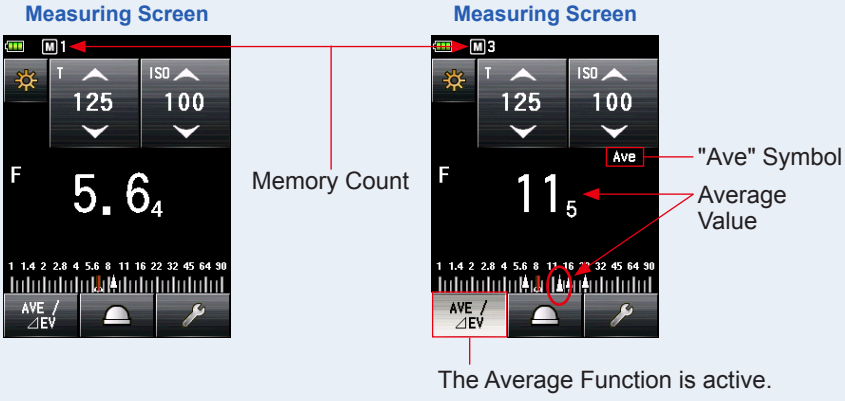
3. Repeat Steps 1 and 2.

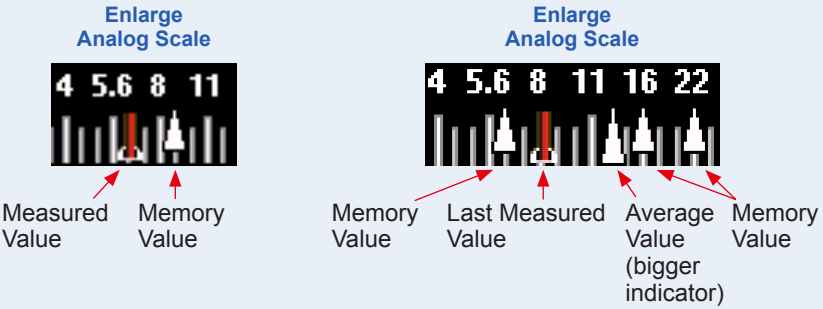
Up to nine measurements can be stored in the memory. The memory count is displayed on the status bar.

4. Touch the Set [Average/Contrast Function] Icon ( ).

The "Ave" symbol appears on the screen. The average of all memory values is displayed.

When the Average Function is active, the Set [Average/Contrast Function] Icon ( ) is highlighted ( ).





NOTE

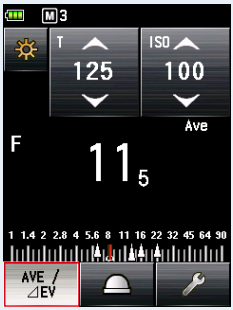
The Set [Average/Contrast Function] Icon is set to Function Button -1 Button in Factory Setting. When the Set [Average/Contrast Function] Icon is not displayed, set the Function Button in Custom Setting (➡P160), or set the Set Average/ Contrast Function on the Tool Box Screen (➡P124).

5. Touch the [Set Average/Contrast Function] Icon (AVE / ⊿EV) again.

The Average Function is released, and the highlighted icon (AVE / ⊿EV) returns to the normal state (AVE / ⊿EV). Then, the "Ave" symbol disappears from the screen.

The last measured value is displayed.

Measuring Screen



NOTE

In case that the Average/Contrast Function is assigned to Function Button -1 or -2. (➡P160)

Icon	Description
AVE / ⊿EV	Displayed when no measured or memorized values are registered.
AVE / ⊿EV	Displayed when the Set Average/Contrast Function is disabled.
AVE / ⊿EV	Displayed when the Set Average/Contrast Function is enabled.

2) Contrast Function

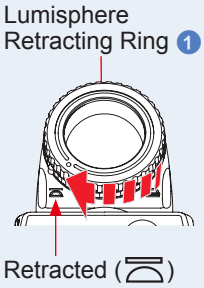
This function is useful for checking studio lighting or illumination unevenness. This function is also convenient when you check the difference in luminance between the intermediate value and the highlight and/or shadow value for landscape shooting.
While you are holding down the Measuring Button 6 at the comparison position after defining the measured value at a specific point as the standard value, a difference between the standard value and the value at the comparison position is displayed with an EV value (difference in stops), and the current measured value is displayed on the analog scale.
* If there are no values in the memory, the standard value will be the last measured value. If there are values in the memory, the standard value will be the average of all the values saved in the memory.

The example of lighting ratio using the Contrast Function
(In T Priority Mode in the incident light system)
When you want to measure the lighting ratio between the main and second light sources, lower the lumisphere to use the Retracted Lumisphere Function.

Operation

1. Rotate the Lumisphere Retracting Ring 1.

Turn the Lumisphere Retracting Ring 1 to aligh the dot to the retracted mark ( ) position.
Only the light source can be measured by setting the light receptor to the retracted lumisphere.



2. Turn ON the main light source only.

Turn OFF the second light source.

3. Press the Measuring Button 6.

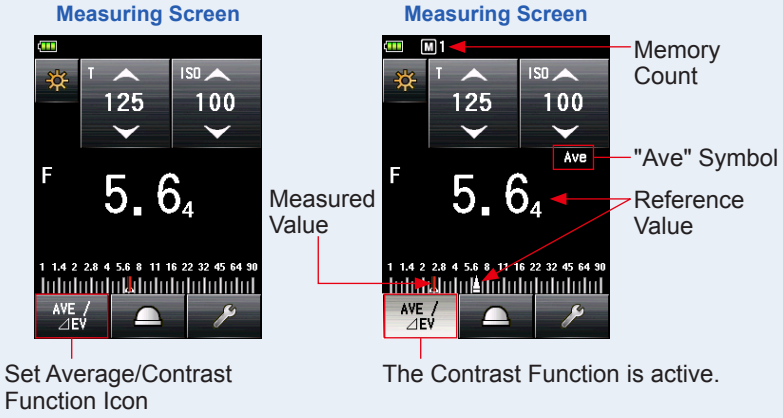
Point the light receptor at the main light source from the subject position to make a measurement.

4. Touch the Set [Average/Contrast Function] Icon (AVE / ⊿EV).

The "Ave" symbol appears on the screen.

When the Contrast Function is active, the Set [Average/Contrast Function] Icon (AVE / ⊿EV) is highlighted (AVE / ⊿EV).

The measured value of the main light source is saved in the memory as the standard value.



5. Turn ON the second light source only.

Turn OFF the main light source.

6. Hold down the Measuring Button 6.

Point the light receptor at the second light source from the subject position to make a measurement. While holding down the Measuring Button 6, the difference between the standard value of the main light source and the second light source being measured is displayed in terms of an EV value. Then, the standard value and the measured value at the compared position are displayed, and you will be able to obtain the contrast ratio.

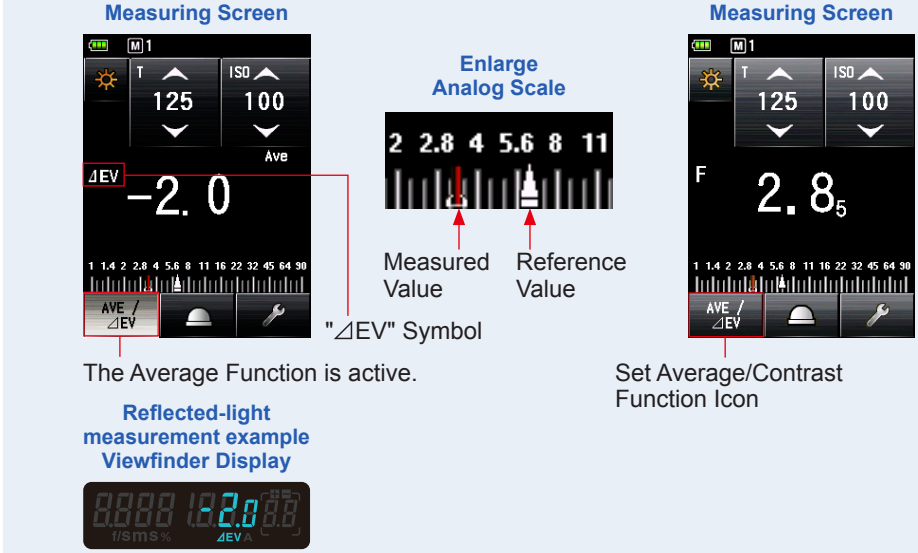
7. Release the Measuring Button 6.

The Contrast Function is released. And the standard value is displayed at the position of the measured value area.

8. Touch the Set [Average/Contrast Function] Icon (AVE / ⊿EV) again.

The Contrast Function is cleared, and the "Ave" symbol disappears from the screen. The last measured value when the Measuring Button 6 is released is displayed.

The standard value is saved in the memory as "M1". Clear the memory when you want to use the Contrast Function with a new standard value. (➡P113)



EV Difference of Measured Value	Illumination Ratio
1	2:1
1.5	3:1
2	4:1
3	8:1
4	16:1

NOTE

- To determine the final exposure in the incident light system, turn on the main and sub light sources, and set the right receptor to the extended lumisphere. Then, point it at the optical axis of the camera to make a measurement.
- The Set [Average/Contrast Function] Icon is set to Function Button -1 in Factory Setting. When the Set [Average/Contrast Function] Icon is not displayed, set the Function Button in Custom Setting (➡ P160), or set the Set Average/Contrast Function on the Tool Box Screen (➡ P124).
- The Set Average/Contrast Function is only available in a mode in which the Memory Function is valid. (➡ P110)
- When measuring the contrast ratio, use the EV scale to make it more visible.
- "Measurement" or "EV Scale" on the analog scale can be changed in Custom Setting. (➡ P22)

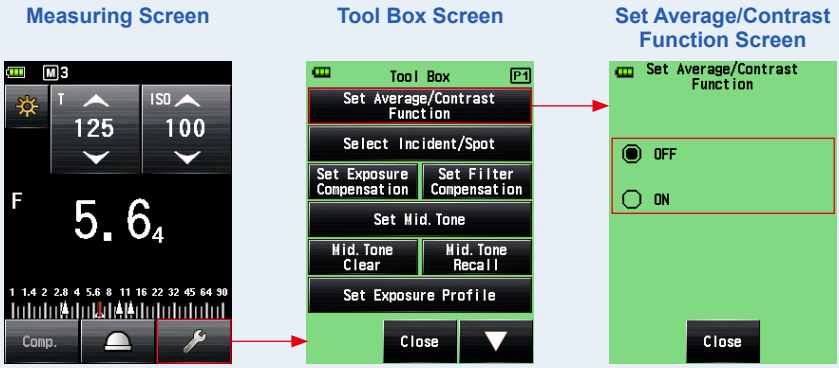
3) Average/Contrast Function Setting on the Tool Box Screen

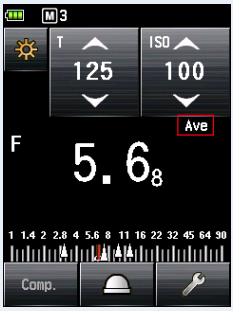
Operation

1. **Touch the [Tool Box] Icon ( ) on the Measuring Screen.**
   The Tool Box Screen is displayed.

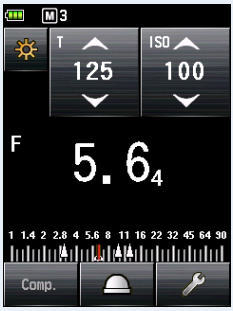
2. **Touch the [Set Average/Contrast Function] Button on the Tool Box Screen.**
   The Set Average/Contrast Function Screen is displayed.

3. **Touch the [ON] or [OFF] radio button or an area around an item name.**
   You can set the Set Average/Contrast Function to [ON] or [OFF].
   When you touch either one, the display returns to the Measuring Screen.





Case in which Set Average/ Contrast Function is set to "ON"



Case in which Set Average/ Contrast Function is set to "OFF"

6-3 Exposure Compensation Function

This function is useful when compensation is necessary for highlight and/or shadow in reflected-light measurements.
The input value range is -9.9 EV to +9.9 EV in 0.1 step increments.
To use the Set Exposure Compensation Function, first specify the Measuring Mode (incident light system or reflected light system). Exposure Compensation can be set individually in the incident light system and the reflected light system.

■ Minus Compensation

If a lighter image is obtained when shooting was carried out based on the measured values of this meter, you can use the minus compensation to adjust the exposure to a darker value.

■ Plus Compensation

If a darker image is obtained when shooting was carried out based on the measured values of this meter, you can use the plus compensation to adjust the exposure to a more positive value.

NOTICE

- **Compensation of the measured value must be performed based on a sufficient number of test shooting results.**
- **Note that the individual compensation is possible in the incident light system and reflected light system while uniform compensation is applied in Ambient Mode and Flash Mode.**

NOTE

In Factory Setting, the light intensity can be adjusted using the minus or plus compensation. However, to adjust the exposure value (exposure decrease by plus compensation and exposure increase by minus compensation), select "Measured Value (+ is dark, - is bright)" in "Compensation +/- Preference" of Custom Setting. (➡P166)

NOTE

In case that the Exposure Compensation is assigned to Function Button -1 or -2. (➡P160)

Icon	Description
	Disabled when Exposure compensation is not set.
	Displayed when Exposure compensation is OFF.
	Displayed when Exposure compensation is ON.

Operation

1. Touch the [Tool Box] Icon ( ) on the Measuring Screen.

The Tool Box Screen is displayed.

2. Touch the [Set Exposure Compensation] Button on the Tool Box Screen.

The Exposure Comp. Value Screen is displayed.

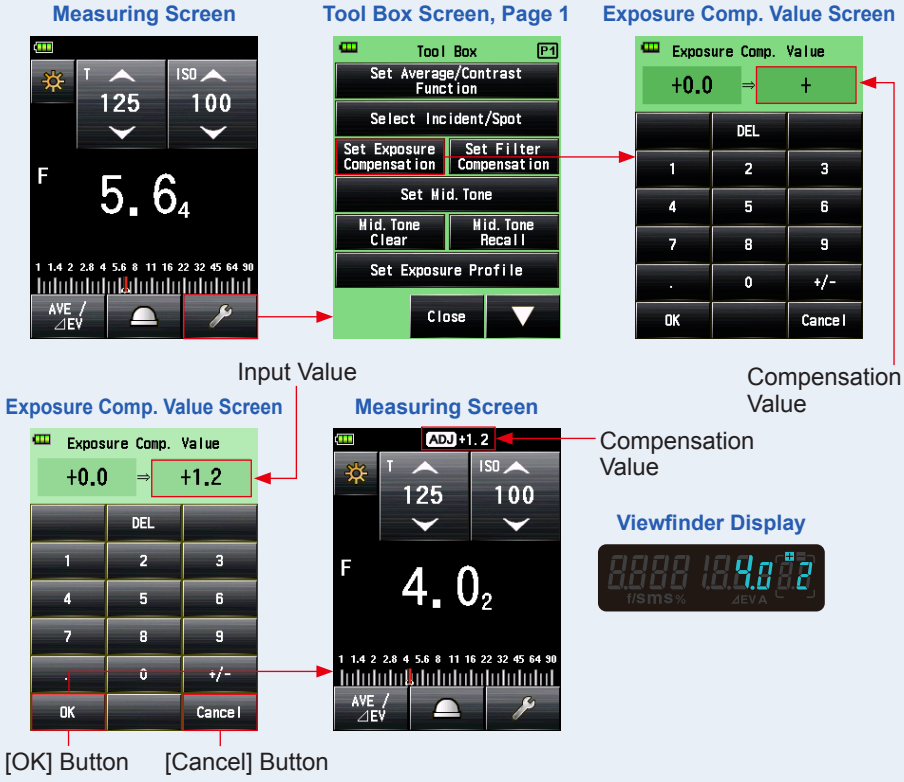
3. Set the compensation value.

Set the compensation value on the Exposure Comp. Value Screen that is displayed.
The input value range is +/-9.9 EV in 0.1 step increments. (See ➡ P11 for details about how to input the value.)

4. Touch [OK] Button.

The display returns to the Measuring Screen, and the ADJ icon and the compensation value are displayed on the status bar.

When you touch [Cancel] Button, the display returns to the Measuring Screen without setting the Exposure compensation.



6-4 Filter Compensation Function

This function registers a filter compensation value in the light meter. Setting this value enables you to obtain the measurement result to which the filter compensation value is applied.
If the filter is used in front of camera lens, the light coming into the camera is decreased, so this "decreased" light value should be compensated for the exposure value measured with the light meter.
The input value range is +/-12 EV in 0.1 EV step increments.

You can select the desired Filter Compensation Mode from the following three options:

1. Input Filter Comp. Value
   Enter the numeric value. Filter Compensation () is displayed on the status bar.
2. Filter Pack in Use
   You can select up to four pre-registered filter names. Filter Compensation () is displayed on the status bar.
3. No Filter
   Filter Compensation () disappears from the status bar.

NOTICE

Note that this Filter compensation is applied in the incident light system and the reflected light system, and also in Ambient Mode and Flash Mode at the same time.

NOTE

- Selecting the plus compensation decerases the exposure (the meter displays a higher shutter speed or F-stop). Selecting the minus compensation increases the exposure (the meter displays a lower value of shutter speed or F-stop).
- Enter a minus value for filter compensation. Pre-registered filter names and values can be customized in Edit Filter in Menu list. (Up to 30 filter names can be registered.)

NOTE

In case that the Filter Compensation is assigned to Function Button -1 or -2. (➡ P160)

Icon	Description
	Disabled when Filter compensation is not set.
	Displayed when Filter compensation is OFF.
	Displayed when Filter compensation is ON.

6-4-1 Input Filter Comp. Value

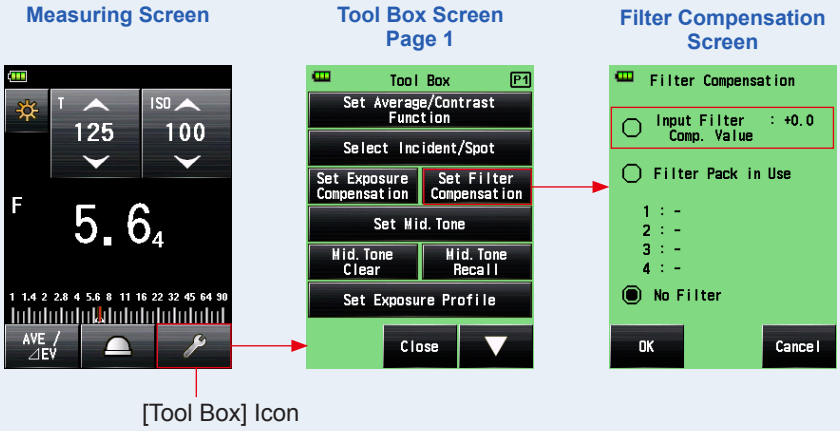
Directly enter a filter compensation value using a numeric value.
The input value range is +/-12 EV in 0.1 EV step increments.

Operation

1. **Touch the [Tool Box] Icon ( ) on the Measuring Screen.**
   The Tool Box Screen is displayed.

2. **Touch the [Set Filter Compensation] Button on the Tool Box Screen.**
   The Filter Compensation Screen is displayed.

3. **Touch [Input Filter Comp. Value] radio button or an area around an item name.**
   The Filter Comp. Value Screen is displayed.



4. Input the compensation value on the Filter Comp. Value Screen. (See ➡ P11 for details about how to input the value.)

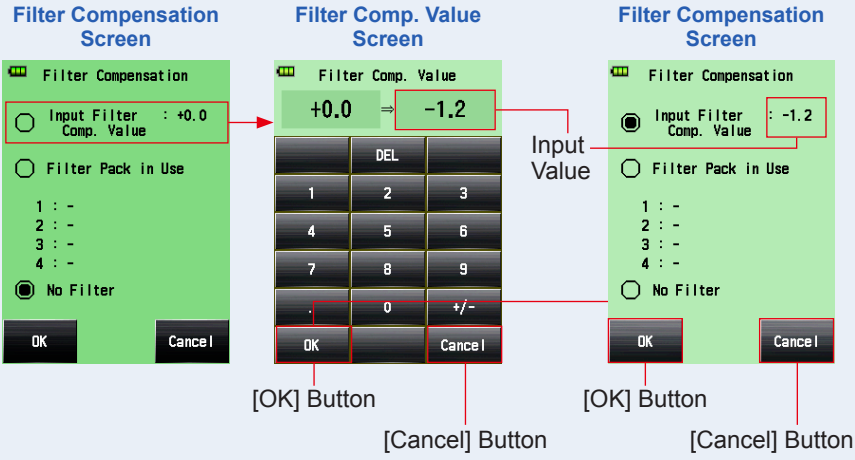
5. Touch [OK] Button.

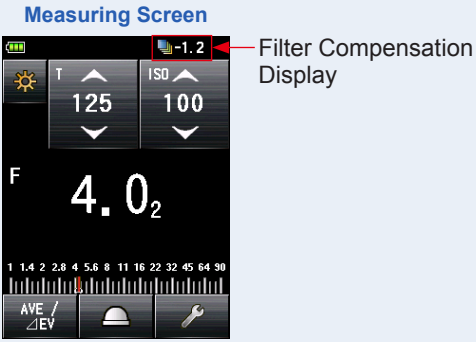
The value is applied, and the display returns to the Filter Compensation Screen. Then, the entered filter compensation value is displayed.

To return to the Filter Compensation Screen without changing the value, touch [Cancel] Button.

6. Touch [OK] Button on the Filter Compensation Screen.

The value is applied, and the display returns to the Measuring Screen. Then, the Filter Compensation Icon ( ) and the compensation value are displayed on the status bar.





6-4-2 Selecting a Filter

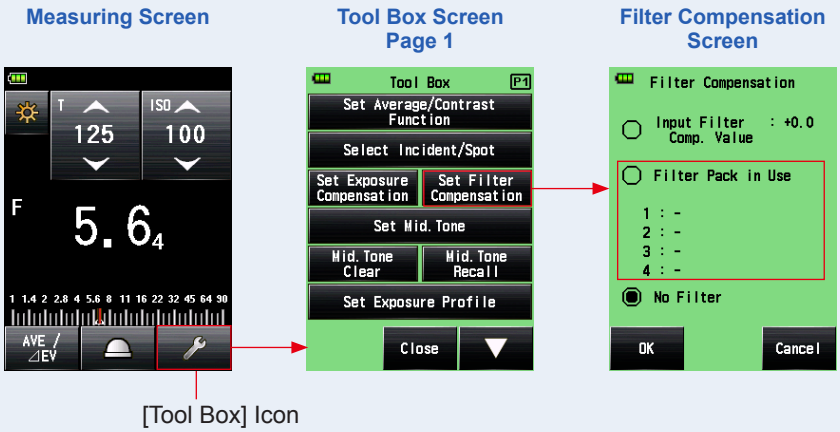
You can select up to four pre-registered filter name (➡P199).

Operation

1. **Touch the [Tool Box] Icon ( ) on the Measuring Screen.**
   The Tool Box Screen is displayed.

2. **Touch the [Set Filter Compensation] Button on the Tool Box Screen.**
   The Filter Compensation Screen is displayed.

3. **Touch [Filter Pack in Use] radio button or an area around an item name.**
   The Filter Pack in Use Screen is displayed.



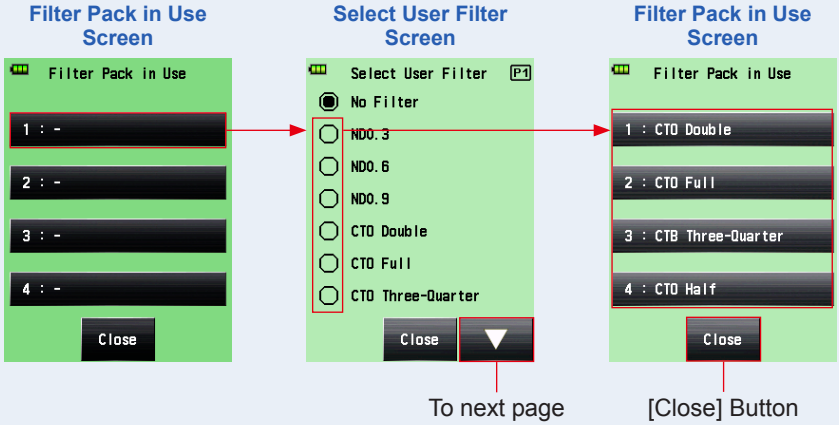
4. Touch any of four [Filter Name] Buttons on the Filter Pack in Use Screen.

The Select User Filter Screen is displayed.

When there are multiple pages, press the [Next Page] Icon (▼) to display different pages. (➡ P199)

5. Touch the radio button on the Filter Pack in Use Screen to select the desired filter.

The selected filter is registered, and the display returns to the Filter Pack in Use Screen.



6. Repeat Steps 4 and 5 to register other filters.

Up to four filters listed on the Filter Pack in Use Screen are compensated all at once.

NOTE

- In this Filter Pack in Use, you can select the same filter more than once.
- To deselect the listed in Filter Pack in Use, select "No Filter".

7. Touch [Close] Button.

The display returns to the Filter Compensation Screen.

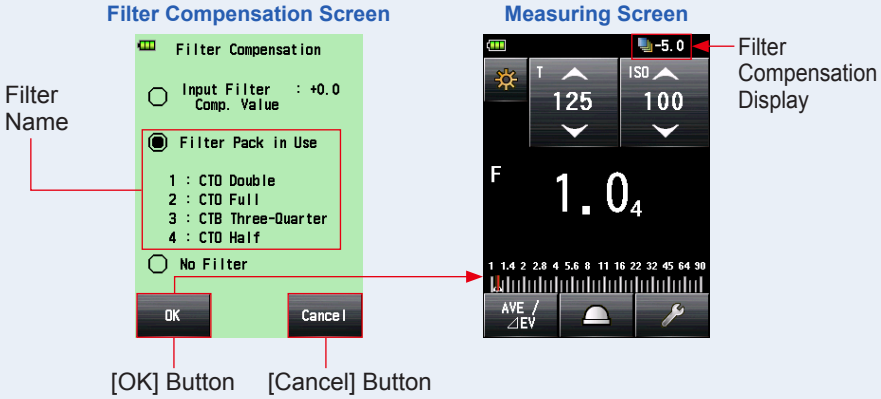
8. Check that the selected filter name is displayed.

Check that the selected filter name is registered.

9. Touch [OK] Button on the Filter Compensation Screen.

The value is applied, and the display returns to the Measuring Screen. Then, the Filter Compensation Icon ( ) and the compensation value are displayed on the status bar.

To return to the Measuring Screen without changing the value, touch [Cancel] Button.



NOTE

- See "9-6 Filter Names and Compensation Values" for details about the filters that are pre-registered in Factory Setting. (➡ P199)
- The pre-registered filter name can be customized in Edit Filter in Menu list. (Up to 30 filter names can be registered.)

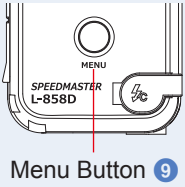
6-4-3 User-defined Filter Compensation Settings

You can register up to 30 user-defined filter compensation values in addition to the standard filter compensation values. The registered filter compensation values can be edited freely.

Operation

1. Press the Menu Button ⑨ on the meter.

The Menu Screen is displayed.

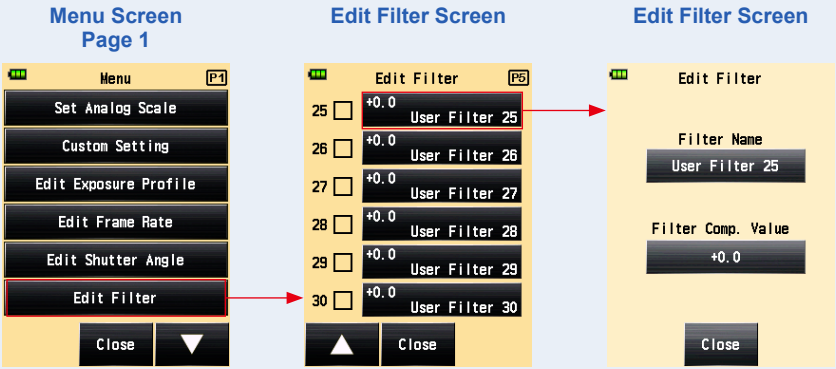


2. Touch the [Edit Filter] Button.

The Edit Filter Screen is displayed.

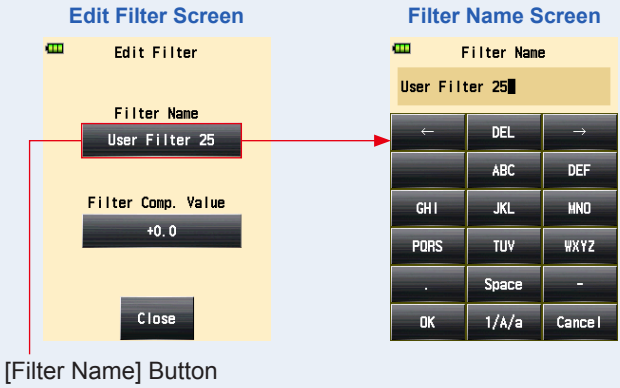
3. Touch [Filter Name] Button of the desired filter.

The Edit Filter Screen is displayed.



4. Touch the [Filter Name] Button on the Edit Filter Screen.

The Filter Name Screen is displayed.



5. Input the filter name. (➡ P12)

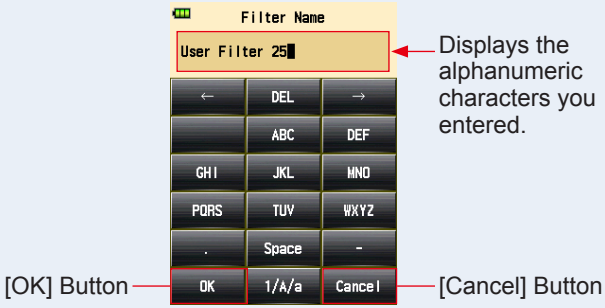
You can input the filter name using up to 31 characters.

6. Touch [OK] Button.

The display returns to the Edit Filter Screen.

To return to the Edit Filter Screen without changing the name, touch the [Cancel] Button.

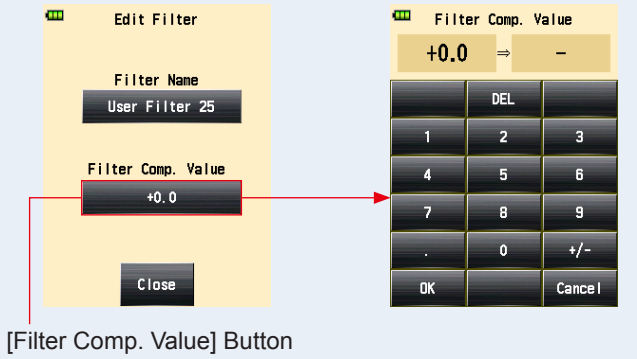
Filter Name Screen



7. Touch the [Filter Comp. Value] Button on the Edit Filter Screen.

The Filter Comp. Value Screen is displayed.

Edit Filter Screen **Filter Comp. Value Screen**



8. Input the filter compensation value. (➡ P11)

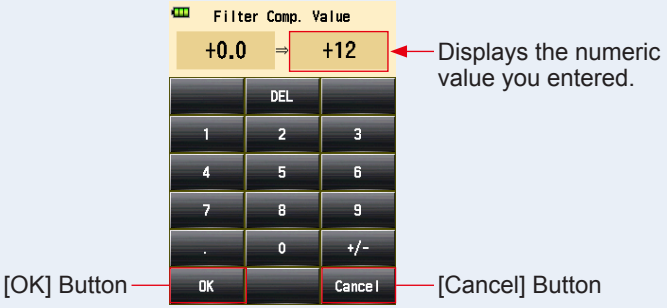
The input value range is +/-12 EV in 0.1 EV step increments.

9. Touch [OK] Button.

The display returns to the Edit Filter Screen.

To return to the Edit Filter Screen without changing the value, touch [Cancel] Button.

Filter Comp. Value Screen



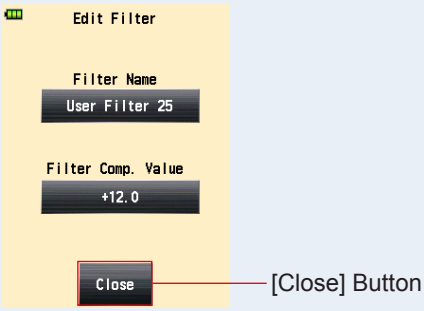
NOTICE

Selecting the plus compensation decreases the exposure (the meter displays a higher value of shutter speed or F-stop). Selecting the minus compensation increases the exposure (the meter displays a lower value of shutter speed or F-stop).

10. Touch [Close] Button on the Edit Filter Screen.

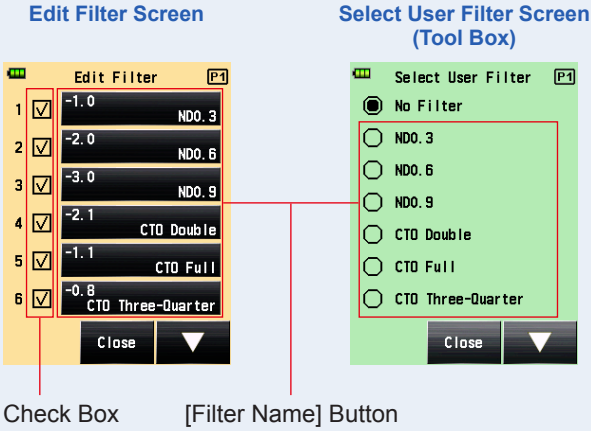
The display returns to the Edit Filter Screen.

Edit Filter Screen



11. Touch the check box of the filter name.

Touch the box (☐) to check ✓ (check mark ☑) to display the filter name in the Select User Filter Screen on the Tool Box. (➡P130) When the box is unchecked, it is not listed.

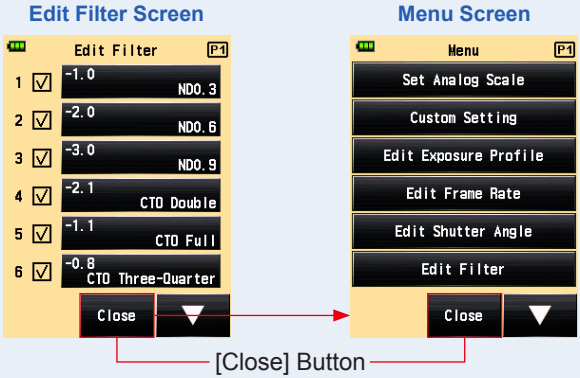


12. Touch [Close] Button on the Edit Filter Screen.

The display returns to the Menu Screen.

13. Touch [Close] Button on the Menu Screen.

The display returns to the Measuring Screen.



NOTE

- Filter compensation No. 1 to 24 have preset values. (➡P199)
- User settings can be added to filter compensation No. 25 to 30, and if necessary, No. 1 to 24 can be edited.

6-4-4 Deselecting a Filter

If "No Filter" is selected, any filter compensation is not applied to the measured value.

Operation

1. Touch the [Tool Box] Icon ( ) on the Measuring Screen.

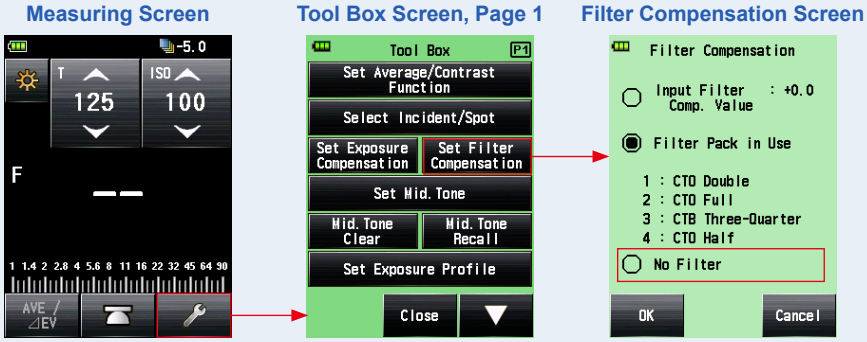
The Tool Box Screen is displayed.

2. Touch the [Set Filter Compensation] Button on the Tool Box Screen.

The Filter Compensation Screen is displayed.

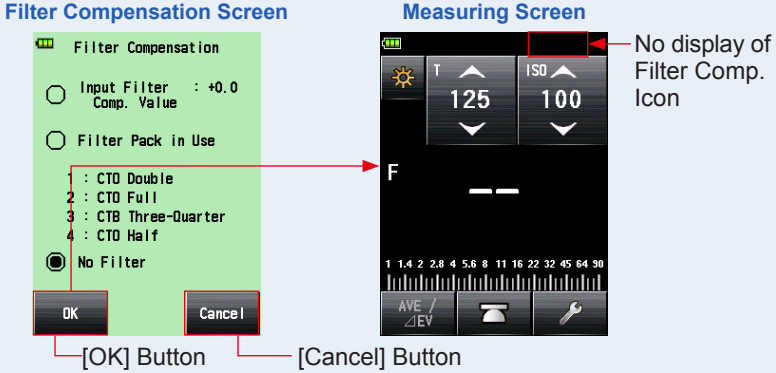
3. Touch [No Filter] radio button or an area around an item name.

"No Filter" is selected.



4. Touch [OK] Button on the Filter Compensation Screen.

The filter compensation is released, and the display returns to the Measuring Screen. Then, the Filter Compensation Icon on the status bar disappears.



6-5 Mid. Tone Function

This function is used to specify a measured value as the standard of light measurements and put it at the center of EV scale.

The Mid. Tone Function has four modes:

Setting name	Description
Set from Current Measurement	Specify the measured value as the Mid. Tone value.
Set from Memory	Select the desired one from up to nine measured values saved in the memory, and set it as the Mid. Tone value.
Modify Current Mid. Tone	Modify the specified Mid. Tone value.
Mid. Tone Recall	Allows you to check the Mid. Tone value on the Mid. Tone Recall Screen.

NOTE

In case that the Mid. Tone is assigned to Function Button -1 or -2. (➡P160)

Icon	Description
	Disabled when no measured value is taken.
	Displayed when the Mid. Tone setting is OFF.
	Displayed when the Mid. Tone setting is ON.

6-5-1 Mid. Tone Setting

1) Set from Current Measurement

Set the measured value as the Mid. Tone value.

Operation

1. Press the Measuring Button ⑥.

Press this button to make a measurement.

2. Touch the [Tool Box] Icon ( ) on the Measuring Screen.

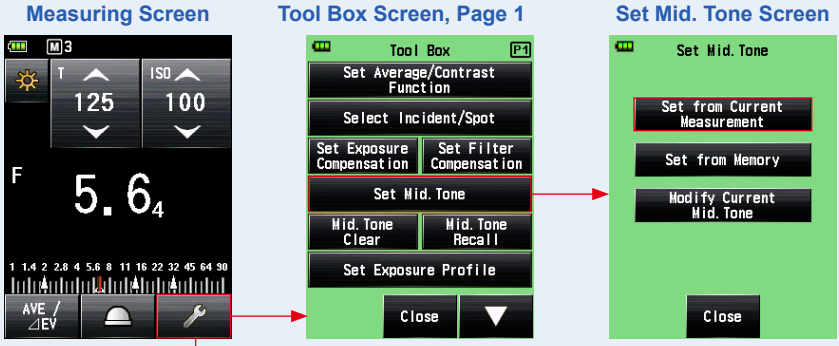
The Tool Box Screen is displayed.

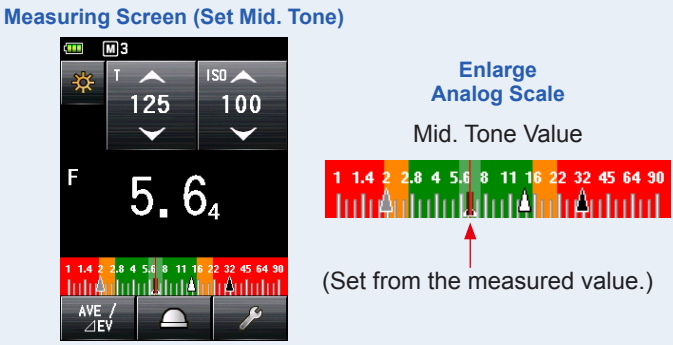
3. Touch the [Set Mid. Tone] Button on the Tool Box Screen.

The Set Mid. Tone Screen is displayed.

4. Touch the [Set from Current Measurement] Button on the Set Mid. Tone Screen.

Set the current measured value as the Mid. Tone value, and return to the Measuring Screen. The newly set Mid. Tone value is then displayed on the analog scale.





2) Set from Memory

Set the memorized value as the Mid. Tone value.

Operation

1. Touch the [Tool Box] Icon ( ) on the Measuring Screen.

The Tool Box Screen is displayed.

2. Touch the [Set Mid. Tone] Button on the Tool Box Screen.

The Set Mid. Tone Screen is displayed.

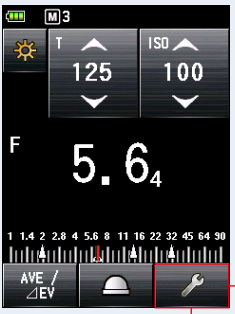
3. Touch the [Set from Memory] Button on the Set Mid. Tone Screen.

This displays the Mid. Tone Set from Memory Screen, which shows memory information (memory number, incident light ( ) or reflected light ( ), and measured value). Measured values that are saved in the memory are displayed as dots on the analog scale.

4. Touch one of the memorized values to set as the Mid. Tone value.

The selected value is registered, and the display returns to the Measuring Screen. The newly set Mid. Tone value is then displayed on the analog scale.

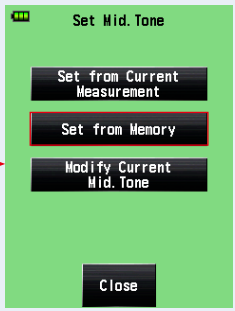
Measuring Screen



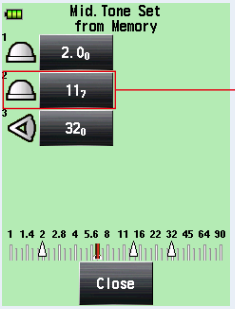
[Tool Box] Icon

Tool Box Screen, Page 1

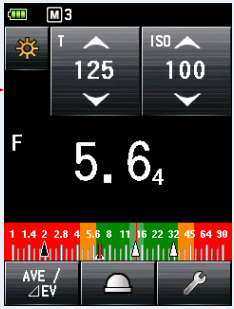
Set Mid. Tone Screen



Mid. Tone Set from Memory Screen

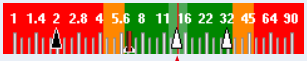


Measuring Screen (Set Mid. Tone) Screen



Enlarge Analog Scale

Mid. Tone Value



(Select the Mid. Tone value from memory.)

3) Modify Current Mid. Tone

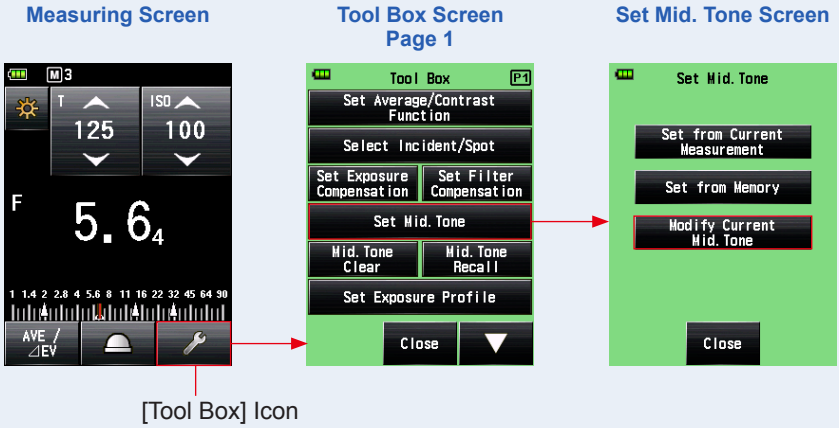
Fine-tune the currently set Mid. Tone value.

Operation

1. **Touch the [Tool Box] Icon ( ) on the Measuring Screen.**
   The Tool Box Screen is displayed.

2. **Touch the [Set Mid. Tone] Button on the Tool Box Screen.**
   The Set Mid. Tone Screen is displayed.

3. **Touch the [Modify Current Mid. Tone] Button on the Set Mid. Tone Screen.**
   The Modify Current Mid. Tone Screen is displayed.



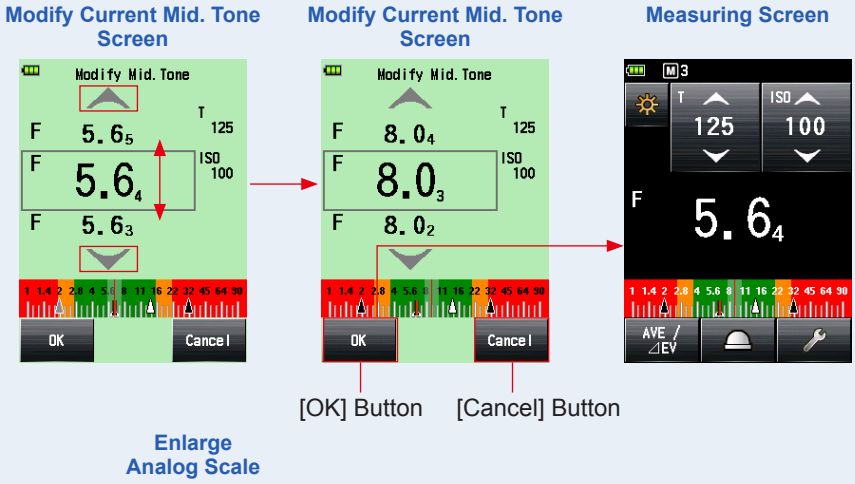
4. Touch the arrow icon (or) or slide the number on the Modify Current Mid. Tone Screen.

Select the desired Mid. Tone value.

5. Touch [OK] Button.

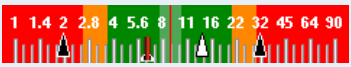
The change is applied and the displays to the Measuring Screen.

To return to the Measuring Screen without changing the value, touch [Cancel] Button. The newly set Mid. Tone value is then displayed on the analog scale.



Enlarge Analog Scale

Mid. Tone Value (After selected from the memory and edited)



(Select the Mid. Tone value from memory.)

NOTICE

You cannot make a change if no Mid. Tone value is set.

6-5-2 Mid. Tone Recall

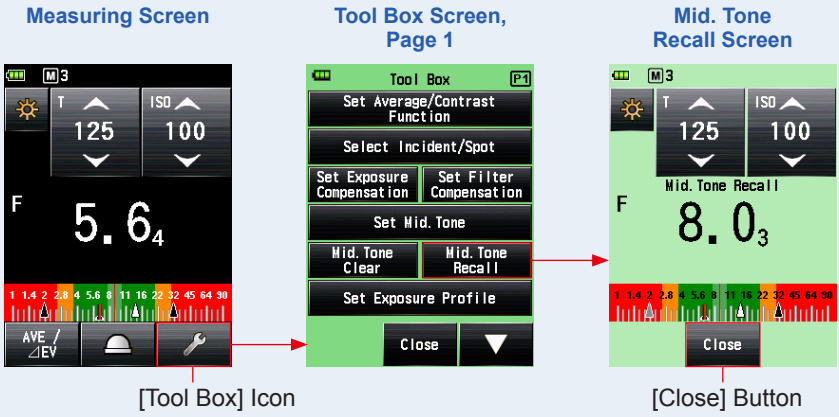
This function recalls the set Mid. Tone value to view details.

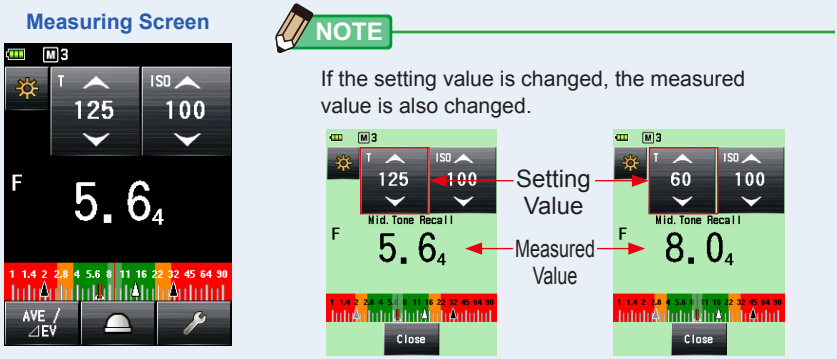
Operation

1. **Touch the [Tool Box] Icon ( ) on the Measuring Screen on which the Mid. Tone value is specified.**
   The Tool Box Screen is displayed.

2. **Touch the [Mid. Tone Recall] Button on the Tool Box Screen.**
   The current Mid. Tone setting is displayed on the Measuring Screen.

3. **Touch [Close] Button.**
   The display returns to the Measuring Screen.





6-5-3 Mid. Tone Clear

This function clears the set Mid. Tone value.

Operation

1. **Touch the [Tool Box] Icon ( ) on the Measuring Screen on which the Mid. Tone value is set.**

   The Tool Box Screen is displayed.

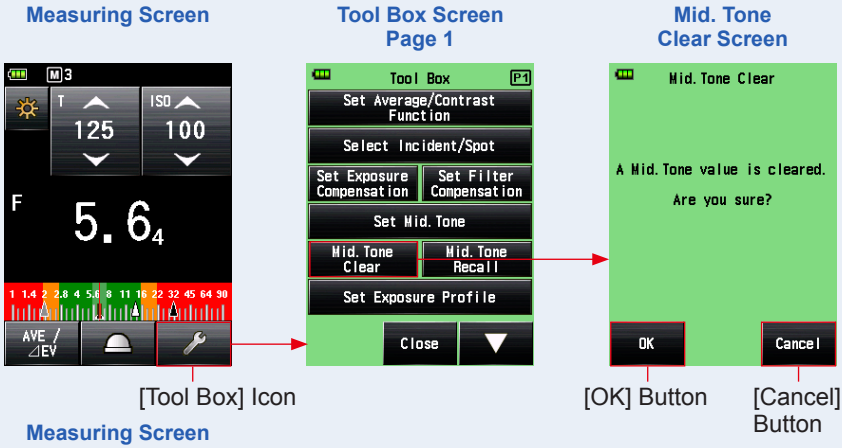
2. **Touch the [Mid. Tone Clear] Button on the Tool Box Screen.**

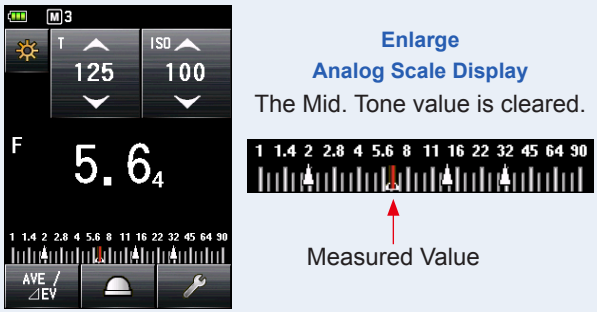
   The Mid. Tone Clear Screen is displayed, and the message of "A Mid. Tone value is cleared. Are you sure?" is displayed.

3. **Touch [OK] Button.**

   The Mid. Tone value is cleared, and the analog scale that shows the Mid. Tone value is also cleared. Then, the display returns to the Measuring Screen.

   To return to the Measuring Screen without clearing the Mid. Tone, touch [Cancel] Button.





6-6 Exposure Profile Function

6-6-1 Overview of Exposure Profile Function

1. What is a Exposure Profile?

1) It can be used to display on a light meter the unique dynamic range and clipping point of the digital camera you are using.

◆Transfers the unique sensor characteristics of the digital camera to the light meter.

The dynamic range and clipping point differ depending on the camera you are using, so it is necessary to pay careful attention to how well the color and detail are captured in the highlight and shadow areas when you take a picture. By creating a camera exposure profile in Data Transfer Software and transferring it to the light meter, you can display the unique sensor characteristics as the dynamic range and clipping point, which makes it possible to instantly check whether or not a subject falls within the exposure range.

2) To display more accurate exposure values on the light meter, it records unique variations in the camera, lens shutter speed, aperture, etc. that you are using and reflects them in the exposure display.

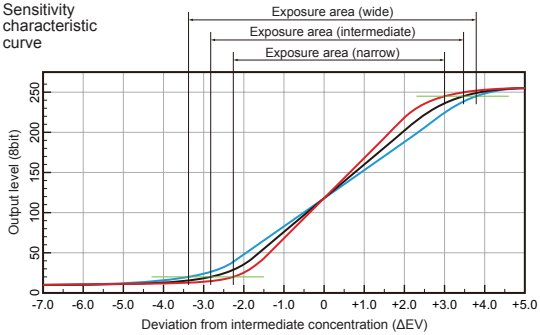
◆Achieves more accurate exposure by matching the camera you are using with the light meter display

Even if you set exposure values measured on a light meter in the camera, you may not obtain the standard exposure due to variations in the camera, lens shutter speed and aperture you are using. If this happens, you can use Data Transfer Software to match the values on the light meter with the camera variations by correcting the display in the light meter so that it is possible to obtain the standard.

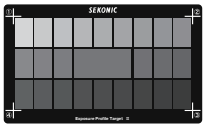
* This function takes the characteristics of the camera you are using into account and achieves better correction compared to prescribed correction functions that correct the measured results uniformly.

2. Main functions of Data Transfer Software

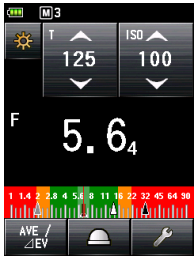
Data Transfer Software is application software for creating and editing camera exposure profiles, editing light meter settings (custom setting and user setting, etc.) and updating light meter firmware, transferring camera exposure profiles to the light meter unit as well as for implementing all other related settings.



Exposure Profile Target II



Measuring Screen (Set Mid. Tone)



For details, refer to the Software Guide of Data Transfer Software. (downloadable from the website, www.sekonic.com)

6-6-2 Set Exposure Profile

Operation

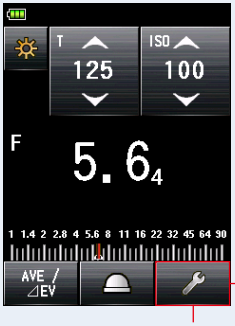
1. Touch the [Tool Box] Icon ( ) on the Measuring Screen.

The Tool Box Screen is displayed.

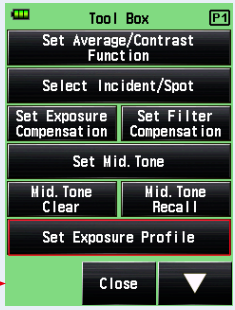
2. Touch the [Set Exposure Profile] Button on the Tool Box Screen.

The Set Exposure Profile Screen is displayed.

Measuring Screen



Tool Box Screen Page 1



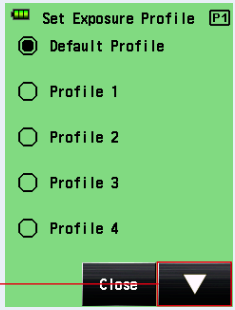
[Tool Box] Icon

3. Touch the exposure profile name to select it.

Touch the exposure profile name to select it. The display returns to the Measuring Screen and the Exposure Profile Icon (P) is displayed on the status bar.

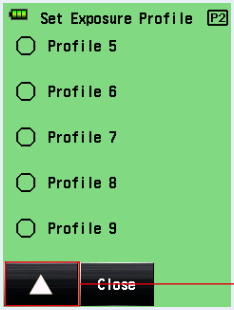
Set Exposure Profile Screen

Page 1



To next page

Page 2



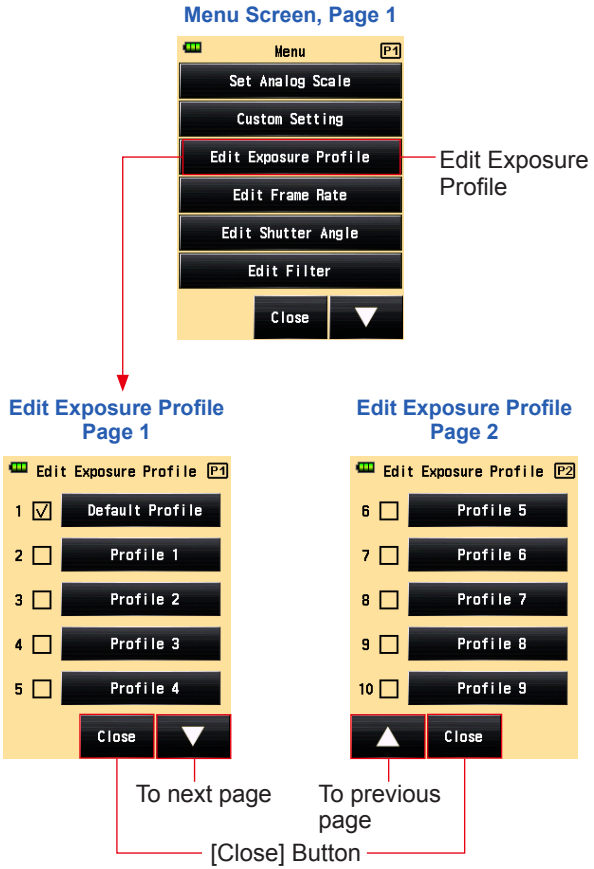
To previous page

NOTICE

You can display only the items for which you have selected ☑ in the check boxes on the Edit Exposure Profile Screen. (➡ P148)

6-6-3 Edit Exposure Profile

You can specify whether to display or not in the list on the "Set Exposure Profile" Screen of the Tool Box Screen.
You can also edit exposure profiles created using Data Transfer Software on the meter side (about setting values and names) or create exposure profiles manually using this meter only. (The meter can store up to 10 exposure profiles.)

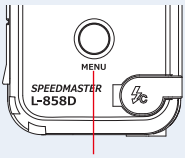


1) Display or not on the Set Exposure Profile Screen (Tool Box)

Operation

1. Press the Menu Button 9 on the meter.

The Menu Screen is displayed.

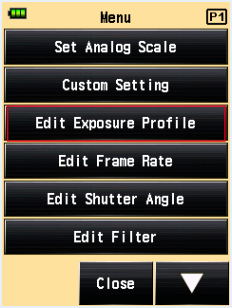


Menu Button 9

2. Touch the [Edit Exposure Profile] Button.

The Edit Exposure Profile Screen is displayed.

Menu Screen, Page 1

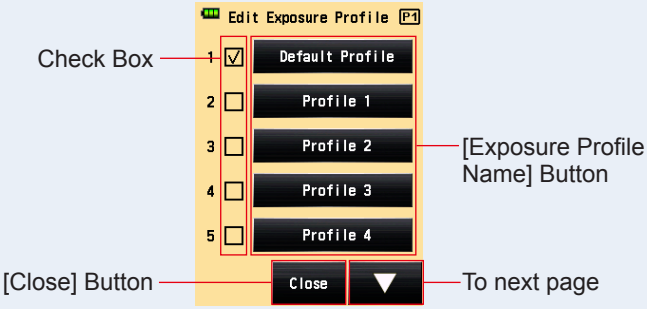


3. Touch the check box of the exposure profile name.

Touch the box (☐) to check it ✓ (check mark ☑). The selected item can be displayed (registered) on the screen as an option on the Set Exposure Profile Screen. If the check mark (☐) is cleared, the option on the Set Exposure Profile Screen is disabled, and is not displayed on the screen.

* Only the check box (☑) of "Default Profile" is selected by default.

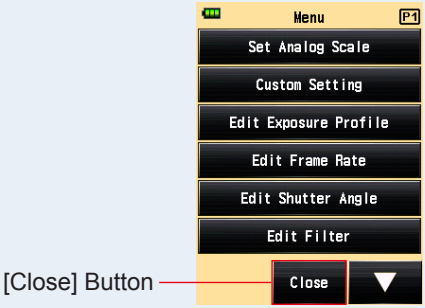
Edit Exposure Profile Screen



4. Touch [Close] Button.

The display returns to the Menu Screen.

Menu Screen



5. Touch [Close] Button on the Menu Screen.

The display returns to the Measuring Screen.

2) Edit Exposure Profile

Although you can create an exposure profile using Data Transfer Software and transfer it to the meter, you can edit the stored exposure profil or directly enter an exposure profile into the meter manually.

Operation

1. Touch the [Edit Exposure Profile] Button.

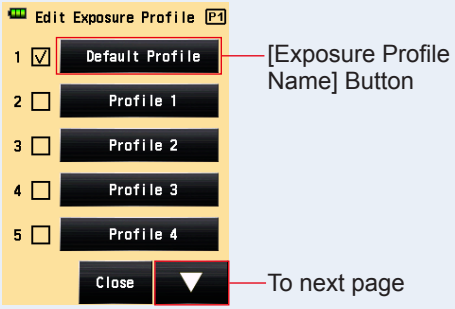
The Edit Exposure Profile Screen is displayed.

* To always display the selected item as an option on the Set Exposure Profile Screen, touch the check box (☐) to mark ✓ (check mark ☑).

2. Touch the [Exposure Profile Name] Button you want to select.

The Edit Exposure Profile Screen is displayed.

Edit Exposure Profile Screen

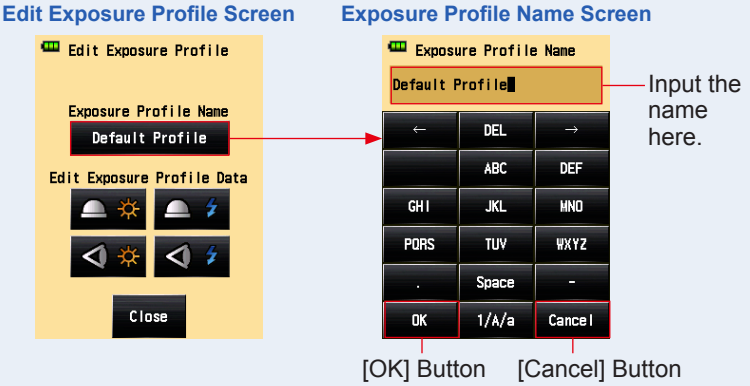


3. Touch the [Exposure Profile Name] Button on the Edit Exposure Profile Screen.

The Exposure Profile Name Screen is displayed.

4. Input the name.

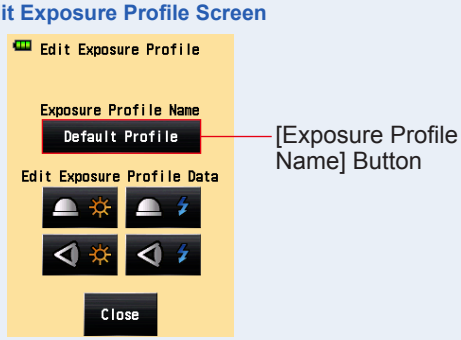
Input the name on the Exposure Profile Name Screen. (➡ P12)



5. Touch [OK] Button.

The display returns to the Edit Exposure Profile Screen, and the profile name you input is displayed.

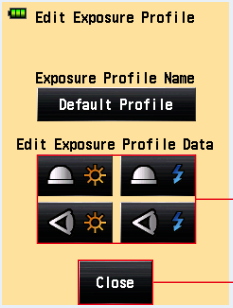
Touch [Cancel] Button to return to the Edit Exposure Profile Screen without applying the edit made to the exposure profile name.



6. Touch the icon for the desired light receiving method and light source in "Edit Exposure Profile Data" on the Edit Exposure Profile Screen.

The ISO Sensitivity of Edit Exposure Profile Data Screen is displayed.

Edit Exposure Profile Screen



NOTE

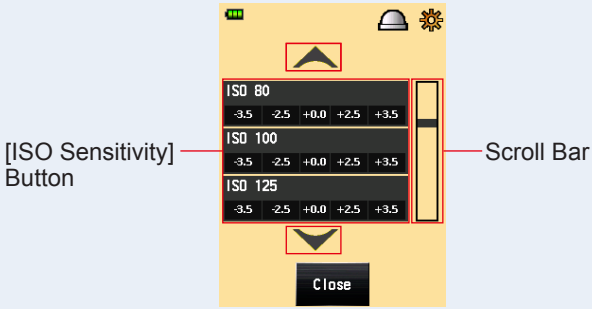
	Incident light system, Ambient Mode		Incident light system, Flash Mode
	Reflected light system, Ambient Mode		Reflected light system, Flash Mode

7. Touch the [ISO Sensitivity] Button of the Exposure Profile Data to edit.

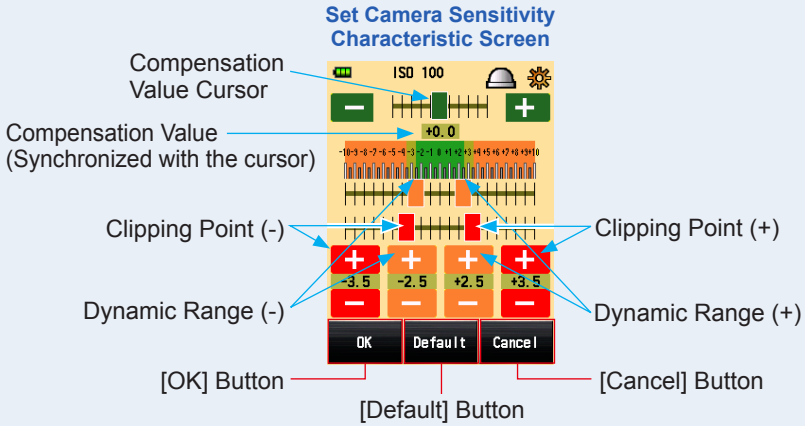
Touch the arrow icon ( or ) on the screen, or slide the scroll bar upward or downward using fingers to select the ISO sensitivity.

Three buttons of ISO sensitivity that are able to be selected are displayed.

Edit Screen



8. Edit the camera sensitivity characteristics.



① **Compensation value cursor**

The compensation value can be set between -5 EV and +5 EV in 0.1 EV step increments.

While touching the compensation value cursor, slide the cursor to set the compensation value.

You can also touch the Minus or Plus Button (− or +) to change the value in 0.1 EV step increments each time it is clicked.

② **Dynamic range and clipping point**

The dynamic range and clipping point can be set between -10 EV and +10 EV in 0.1 EV step increments. However, the clipping point cannot be set over the dynamic range.

Dynamic range (-) ≤ Clipping point (-) ≤ Clipping point (+) ≤ Dynamic range (+)

While touching each cursor, slide the cursor to set the dynamic range (-), clipping point (-), clipping point (+), and dynamic range (+).

To edit the dynamic range, touch the Minus or Plus Button (− or +).

To edit the clipping point, touch the Minus or Plus Button (− or +).

③ **Default**

If you touch [Default] Button, the profile of the selected ISO sensitivity is reset to the default. To reset all the profiles to their defaults, use "Data Transfer Software", which is a convenient tool.

9. Touch [OK] Button.

The display returns to the ISO sensitivity selection on Edit Exposure Profile Data Screen.

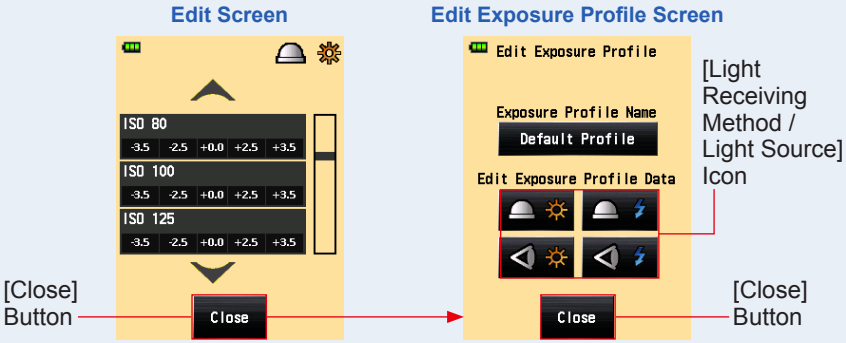
Touch [Cancel] Button to return to the ISO sensitivity selection on Edit Exposure Profile Data Screen without changing any data.

10. Touch [Close] Button on the ISO sensitivity selection on Edit Exposure Profile Data Screen.

The display returns to the Edit Exposure Profile Screen.

11. Repeat Steps 6 to 9.

Edit another light receiving method and light source as needed.



12. Touch [Close] Button on the Edit Exposure Profile Screen.

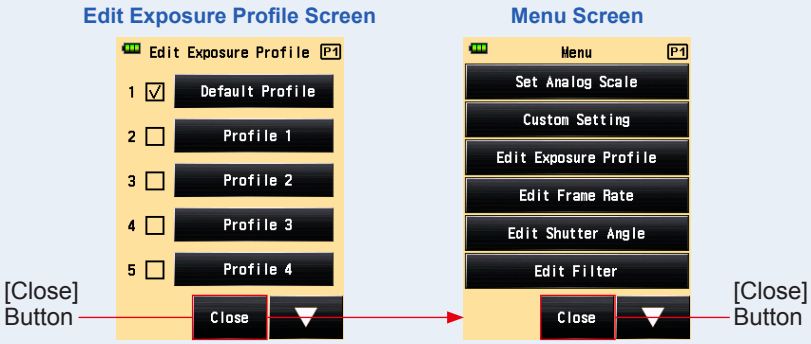
The display returns to the profile name selection on the Edit Exposure Profile Screen.

13. Touch [Close] Button on the Edit Exposure Profile Screen.

The display returns to the Menu Screen.

14. Touch [Close] Button on the Menu Screen.

The display returns to the Measuring Screen.



6-7 Custom Setting

The meter can be customized to desired measuring and display preferences.

*1 "Radio System Preference" in Custom Setting is only displayed when a transmitter (sold separately) is installed.

6-7-1 Custom Setting List

Setting No.	Custom Setting Name	Item					Default Setting
1	**Function Button -1**	Average/ Contrast Function ON/OFF	Incident/Spot Selection	Exposure Compensation ON/OFF	Filter Compensation ON/OFF	Mid. Tone ON/OFF	Average/ Contrast Function ON/OFF
2	**Function Button -2**	Average/ Contrast Function ON/OFF	Incident/Spot Selection	Exposure Compensation ON/OFF	Filter Compensation ON/OFF	Mid. Tone ON/OFF	Incident/Spot Selection
3	**Increments of T+F**	1 step*1	1/3 (0.3) step	1/2 (0.5) step	-	-	1 step*1
4	**Display of 1/10 Step Increments***2	ON	OFF	-	-	-	ON
5	**Compensation +/- Preference**	Exposure Level (+: Brighter, -: Darker)	Measured Value (+: Darker, -: Brighter)	-	-	-	Exposure Level (+: Brighter, -: Darker)
6	**Switching Measure / Memory Buttons***3	Standard	Reverse	Auto (Incident: Standard, Spot: Reverse) *3	-	-	Standard
7	**Ambient Mode***4, *5	ON	OFF	-	-	-	ON
a)	**T Priority Mode***4	ON	OFF	-	-	-	ON
b)	**F Priority Mode***4	ON	OFF	-	-	-	ON
c)	**TF Priority Mode***4	ON	OFF	-	-	-	ON
d)	**HD Cine Mode***4	ON	OFF	-	-	-	ON
e)	**Cine Mode***4	ON	OFF	-	-	-	ON
f)	**Illuminance / Luminance Mode***4	ON	OFF	-	-	-	ON
8	**Flash Mode***4, *5	ON	OFF	-	-	-	ON
a)	**Cordless Mode***4	ON	OFF	-	-	-	ON
b)	**Cord Mode***4	ON	OFF	-	-	-	ON
c)	**Radio Triggering Mode***4, *7	ON	OFF	-	-	-	ON
d)	**Multi Mode***4, *6	ON	OFF	-	-	-	ON

Setting No.	Custom Setting Name	Item					Default Setting
9	**HSS Flash Mode**[*5]	ON	OFF	-	-	-	ON
10	**Flash Duration Analysis Mode**[*5]	ON	OFF	-	-	-	ON
a)	**Cordless Mode**[*4]	ON	OFF	-	-	-	ON
b)	**Cord Mode**[*4]	ON	OFF	-	-	-	ON
c)	**Radio Triggering Mode**[*4, *7]	ON	OFF	-	-	-	ON
11	**Additional Data**	None	EV	Illuminance / Luminance	-	-	None
12	**Illuminance / Luminance Unit**	Lux or cd/m^2	Foot-candle or Foot-lambert	-	-	-	
13	**Color Theme**	Black	White	Rose	Blue	-	Black
14	**Auto Power Off**	5 min	10 min	20 min	No auto power off	-	5 min
15	**Backlight Brightness**	Bright	Normal	Dark	-	-	Bright
16	**Auto Dimmer**	20 sec	40 sec	60 sec	No dimmer	-	20 sec
17	**Radio System Preference**[*7]	Elinchrom: EL-skyport Normal	Elinchrom: EL-skyport Speed	Phottix: Strato II	-	-	Elinchrom: EL-skyport Normal
		ControlTL	Standard	ControlTL + Standard	-	-	ControlTL + Standard
18	**Reset Custom Setting**[*8]	Select [OK] Button or [Cancel] Button to apply or cancel reset processing.					-

[*1] The fraction is indicated in 1/10 steps in all modes.
[*2] The fraction display can only be set to ON or OFF in 1/3 or 1/2 step.
[*3] Auto: The Measuring Button 6 and Memory Button 7 are placed in the standard configuration in the incident light system, and they are automatically switched to the reverse configuration in the reflected light system.
[*4] When all the Measuring Modes are set to "OFF", the Ambient T Priority Mode is selected.
[*5] When the Ambient Mode, Flash Mode and Flash Duration Analysis Mode are set to OFF, the alphabet items that follow the modes are hidden.
[*6] When the Multi Mode is set to "ON", the Cordless Multi (Cumulative) Flash Mode, Cord Multi (Cumulative) Flash Mode, and Radio Triggering Multi (Cumulative) Flash Mode are available on the Measuring Mode Screen.
[*7] Displayed if a transmitter (sold separately) is installed. See the Transmitter operating manual for details.
[*8] All the items in Custom Setting are reset to the factory settings.

6-7-2 Custom Setting Procedure

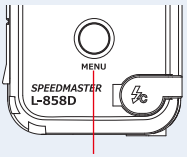
Operation

1. Press the Menu Button 9 on the meter.

The Menu Screen is displayed.

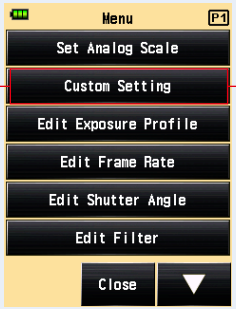
2. Touch the [Custom Setting] Button.

The Custom Setting Menu Screen is displayed.



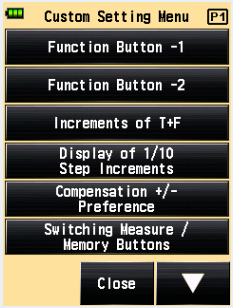
Menu Button 9

Menu Screen, Page 1

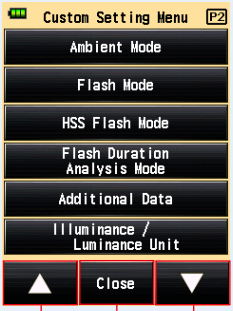


[Custom Setting] Button

Custom Setting Menu Page 1



Custom Setting Menu Page 2

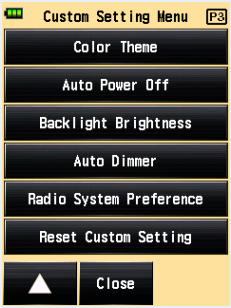


To previous page

To next page

[Close] Button

Custom Setting Menu Page 3



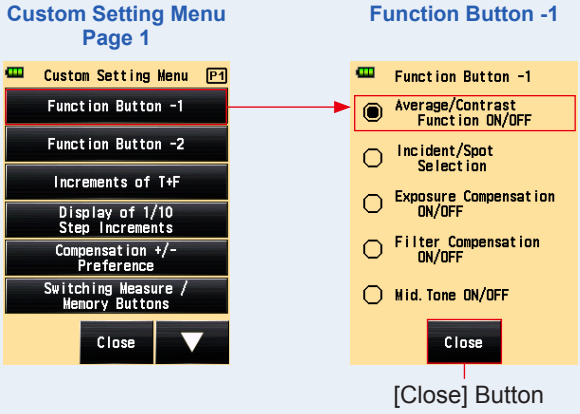
3. Select the page to display the desired item to set.

Touch the [Next Page] / [Previous Page] Icon (▼ / ▲) to display the target page.

4. Touch the desired item name.

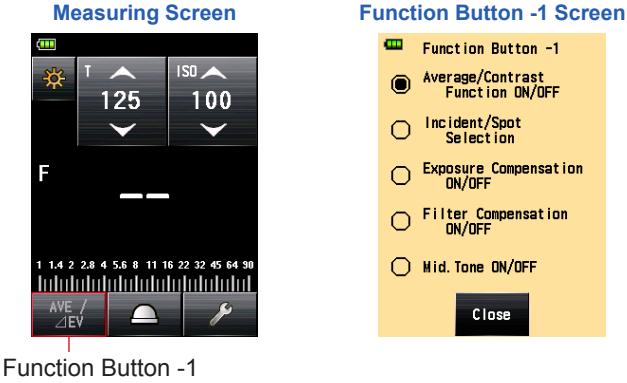
The Item Setting Screen is displayed. Touch the radio button to select the desired item.

When you touch [Close] Button, the display returns to the Menu Screen.



1) Function Button -1 Setting

Assign the Function Button -1 on the Measuring Screen.



Operation

1. Touch the [Function Button -1] Button on page 1 of the Custom Setting Menu Screen.

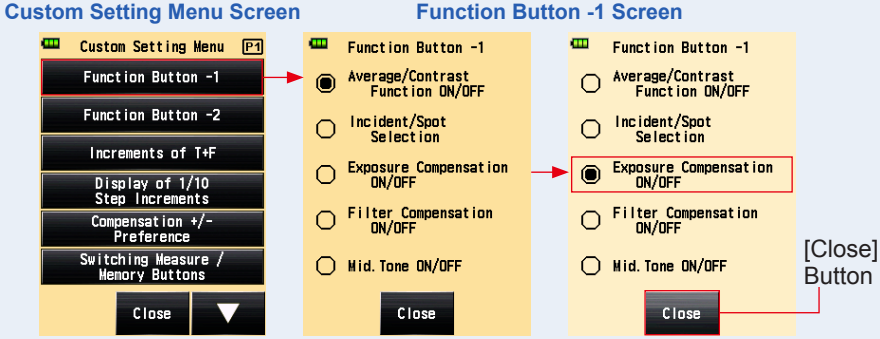
The Function Button -1 Screen is displayed.

2. Touch the desired item.

Touch the desired radio button or an area around the item name to select.

3. Touch [Close] Button.

The display returns to the Custom Setting Menu Screen.



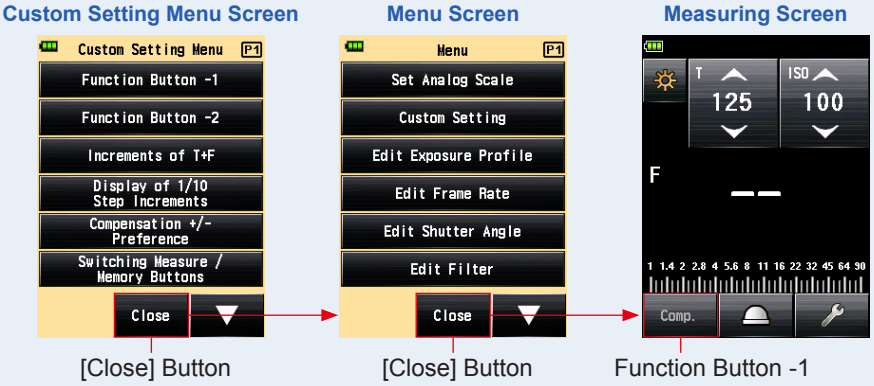
4. Touch [Close] Button on the Custom Setting Menu Screen.

The display returns to the Menu Screen.

5. Touch [Close] Button on the Menu Screen.

The display returns to the Measuring Screen.

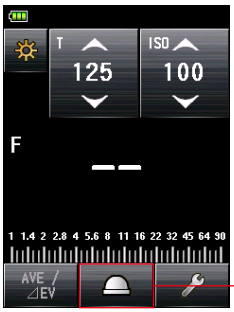
The selected item (Exposure Compensation ON/OFF) has been set to Function Button -1 on the Measuring Screen.



2) Function Button -2 Setting

Assign the Function Button -2 on the Measuring Screen.
Items are common to Function Button -1.

Measuring Screen



Operation

1. Touch the [Function Button -2] Button on page 1 of the Custom Setting Menu Screen.

The Function Button -2 Screen is displayed.

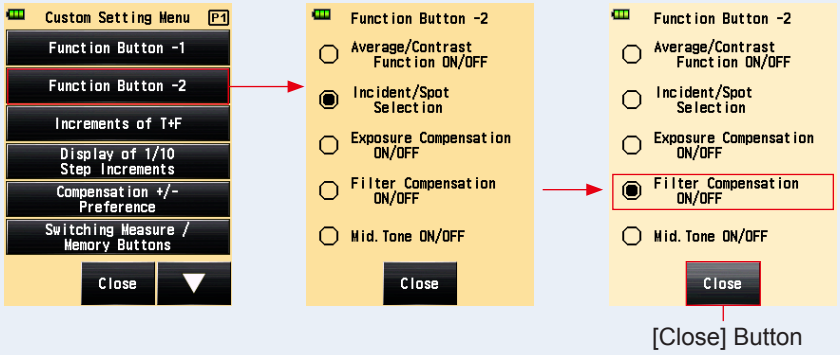
2. Touch the desired item.

Touch the desired radio button or an area around the item name to select.

3. Touch [Close] Button.

The display returns to the Custom Setting Menu Screen.

Custom Setting Menu Screen **Function Button -2 Screen**



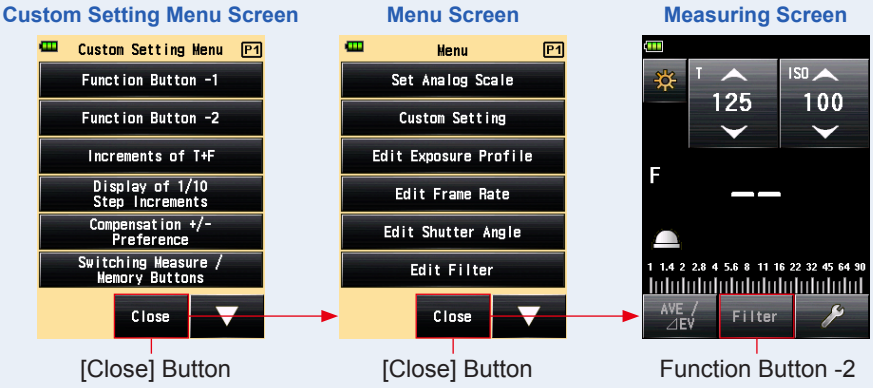
4. **Touch [Close] Button on the Custom Setting Menu Screen.**

The display returns to the Menu Screen.

5. **Touch [Close] Button on the Menu Screen.**

The display returns to the Measuring Screen.

The selected item (Filter Compensation ON/OFF) has been set to Function Button -2 on the Measuring Screen.



3) "Increments of T+F" Setting

Set the increments of T+F for the shutter speed and f-stop value. See "9. Various Setting Values" for the increments of T+F setting. (➡P197)

Operation

1. **Touch the [Increments of T+F] Button on page 1 of the Custom Setting Menu Screen.**

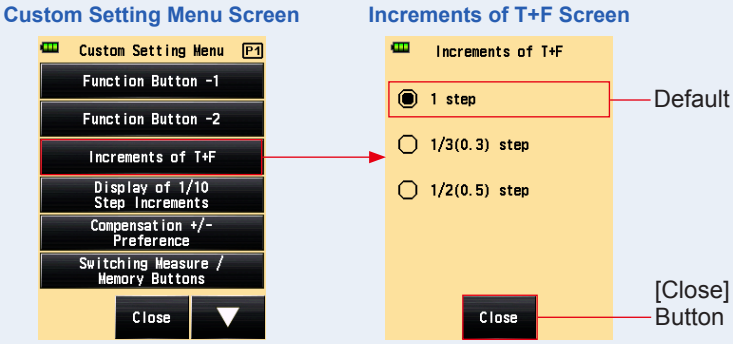
The Increments of T+F Screen is displayed.

2. Touch the desired item.

Touch the desired radio button or an area around the item name to select.

3. Touch [Close] Button.

The display returns to the Custom Setting Menu Screen.

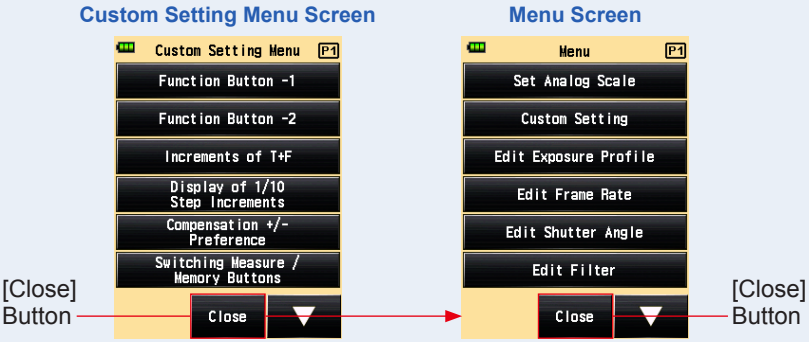


4. Touch [Close] Button on the Custom Setting Menu Screen.

The display returns to the Menu Screen.

5. Touch [Close] Button on the Menu Screen.

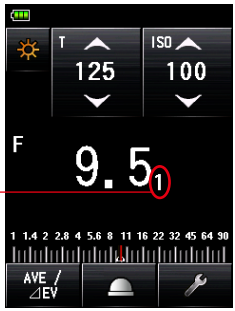
The display returns to the Measuring Screen.



4) "Display of 1/10 Step Increments" Setting

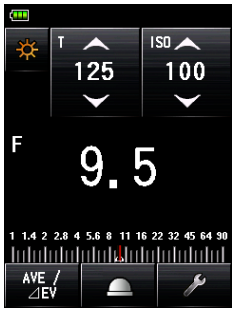
Set the display of 1/10 step increments of the measured value.

Measuring Screen
Display of 1/3 step with 1/10 increments ON



Display of 1/10 Step Increments

Measuring Screen
Display of 1/3 step with 1/10 increments OFF



Viewfinder Display

Viewfinder Display

Operation

1. Touch the [Display of 1/10 Step Increments] Button on page 1 of the Custom Setting Menu Screen.

The Display of 1/10 Step Increments Screen is displayed.

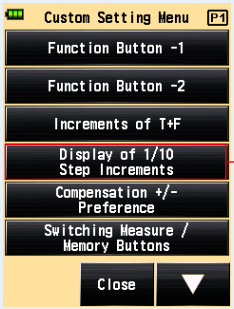
2. Touch the desired item.

Touch the desired radio button or an area around the item name to select.

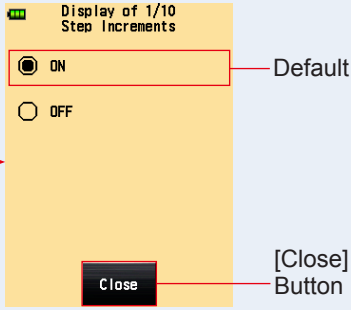
3. Touch [Close] Button.

The display returns to the Custom Setting Menu Screen.

Custom Setting Menu Screen



Display of 1/10 Step Increments Screen

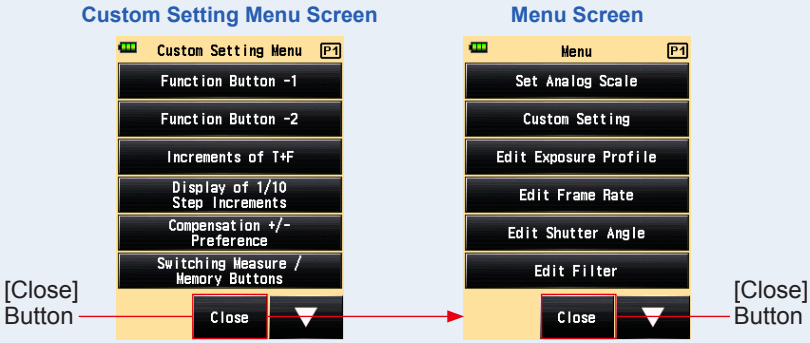


4. Touch [Close] Button on the Custom Setting Menu Screen.

The display returns to the Menu Screen.

5. Touch [Close] Button on the Menu Screen.

The display returns to the Measuring Screen, and the updated content is applied to the Measuring Screen.



5) Compensation +/- Preference

Set the plus or minus direction of Exposure Compensation Value Function.

Operation

1. Touch the [Compensation +/- Preference] Button on page 1 of the Custom Setting Menu Screen.

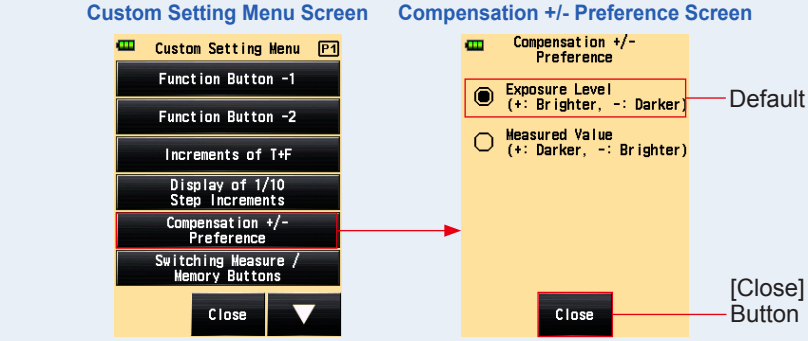
The Compensation +/- Preference Screen is displayed.

2. Touch the desired item.

Touch the desired radio button or an area around the item name to select.

3. Touch [Close] Button.

The display returns to the Custom Setting Menu Screen.

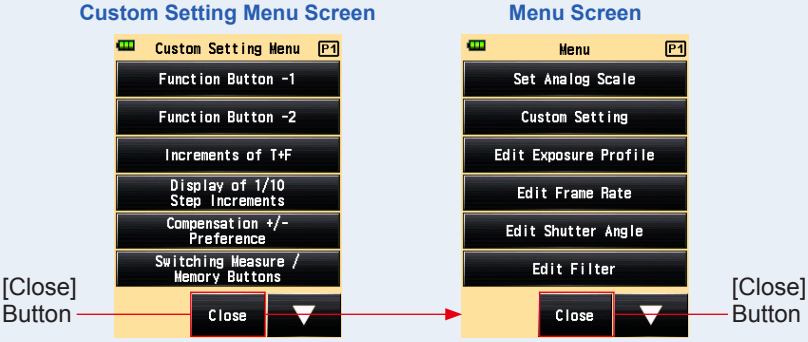


4. Touch [Close] Button on the Custom Setting Menu Screen.

The display returns to the Menu Screen.

5. Touch [Close] Button on the Menu Screen.

The display returns to the Measuring Screen.



NOTE

Exposure Level: Selecting the plus (+) sign carries out compensation so that the exposure is increased (the image becomes brighter). Selecting the minus (-) sign carries out compensation so that the exposure is decreased (the image becomes darker).

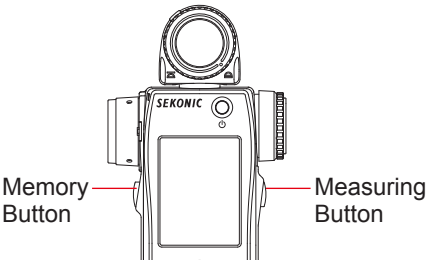
Measured Value: Selecting the plus (+) sign carries out compensation so that the measured value is increased (the exposure is reduced, which means that the image becomes darker). Selecting the minus (-) sign carries out compensation so that the measured value is decreased (the exposure is increased, which means that the image becomes brighter).

6) Setting for Switching the Measuring Button 6 and Memory Button 7

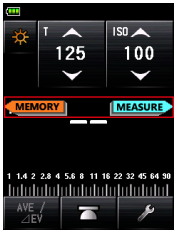
To improve the operability, you can interchange the button functions between the incident light system and reflected light system.

NOTE

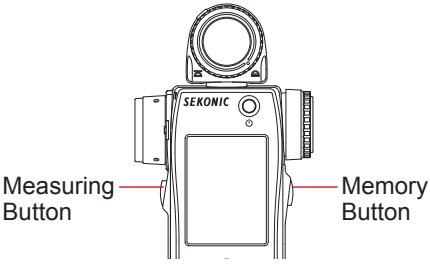
- Standard: Used for measurement in the incident light system.



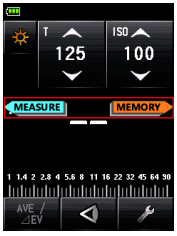
Measuring Screen



- Reverse: Used for measurement in the reflected light system.



Measuring Screen



- Auto: The button arrangement is set to "Standard" when the incident light system is selected, and to "Reverse" when the reflected light system is selected.

The positions of the Measuring Button and Memory Button are displayed for two seconds on the Measuring Screen just after Custom Setting has been changed and also just after the power has been turned on.

Operation

1. Touch the [Switching Measure / Memory Buttons] Button on page 1 of the Custom Setting Menu Screen.

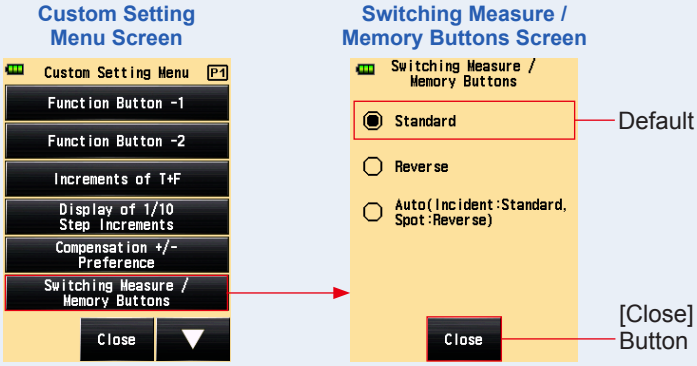
The Switching Measure / Memory Buttons Screen is displayed.

2. Touch the desired item.

Touch the desired radio button or an area around the item name to select.

3. Touch [Close] Button.

The display returns to the Custom Setting Menu Screen.

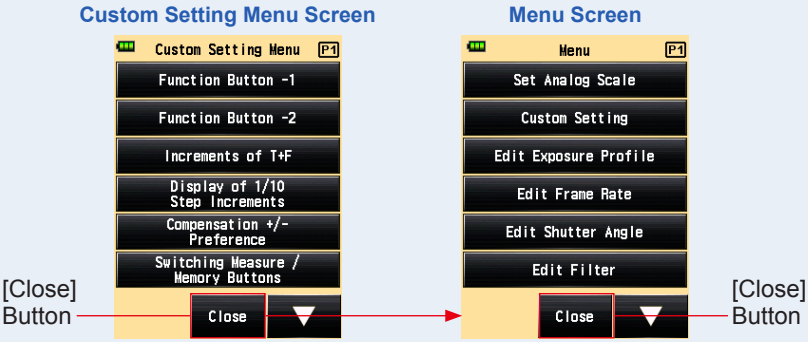


4. Touch [Close] Button on the Custom Setting Menu Screen.

The display returns to the Menu Screen.

5. Touch [Close] Button on the Menu Screen.

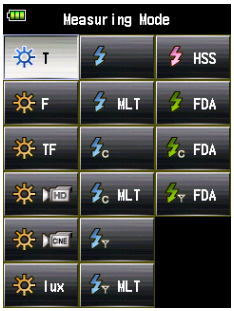
The display returns to the Measuring Screen.



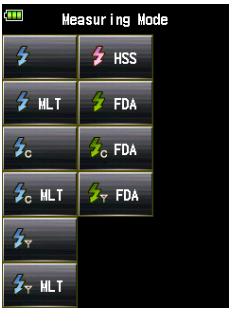
7) Ambient Mode Setting

You can select Measuring Modes to be displayed on the Measuring Mode Screen. Display of all of Ambient Modes can be switched ON or OFF collectively, or Measuring Mode can be switched ON/OFF individually.

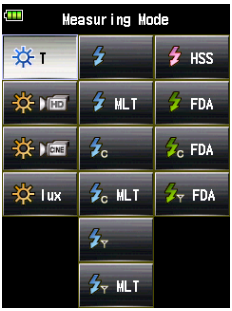
Measuring Mode Screen Default (All ON)



Measuring Mode Screen All OFF in Ambient Mode



Measuring Mode Screen Individually OFF in Ambient Mode

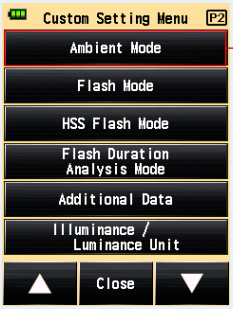


Operation

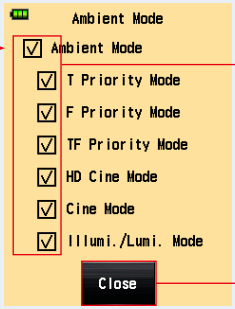
1. Touch the [Ambient Mode] Button on page 2 of the Custom Setting Menu Screen.

The Ambient Mode Screen is displayed.

Custom Setting Menu Screen



Ambient Mode Screen



Default (All ON)

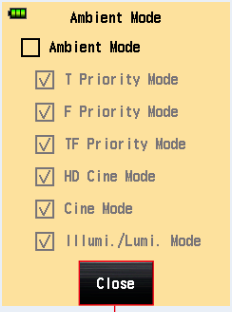
[Close] Button

2. Touch the check boxes of the Measuring Modes to display or not.

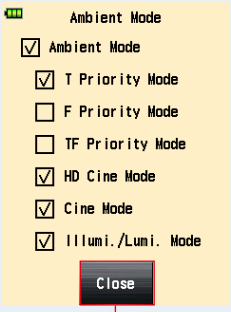
To display, select their check boxes (☑). To hide, clear the check boxes (☐).

If you clear the "Ambient Mode" check box, all the Ambient Modes are hidden collectively, and you will not be able to select any Measuring Mode under "Ambient Mode". To individually display or hide each Measuring Mode, select the desired modes under "Ambient Mode" without clearing the "Ambient Mode" check box.

Measuring Mode Screen All OFF in Ambient Mode



Measuring Mode Screen Individually OFF in Ambient Mode



[Close] Button

3. Touch [Close] Button.

The display returns to the Custom Setting Menu Screen.

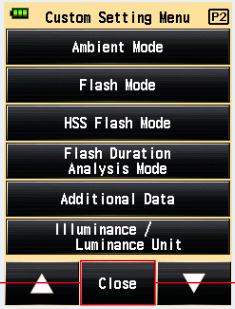
4. Touch [Close] Button on the Custom Setting Menu Screen.

The display returns to the Menu Screen.

5. Touch [Close] Button on the Menu Screen.

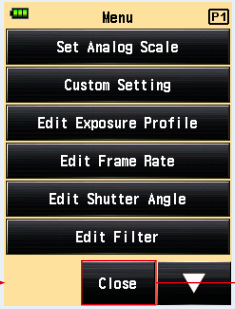
The display returns to the Measuring Screen.

Custom Setting Menu Screen



[Close] Button

Menu Screen

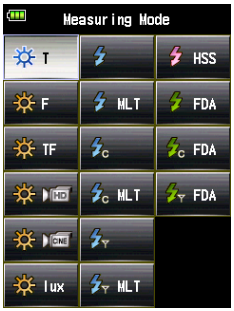


[Close] Button

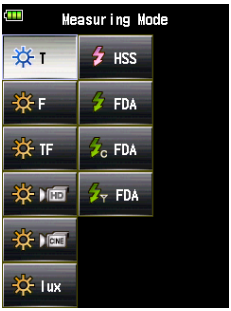
8) Flash Mode Setting

You can select Measuring Modes to be displayed on the Measuring Mode Screen. Display of all Flash Modes can be switched ON or OFF collectively, or Measuring Mode can be switched ON/OFF individually.

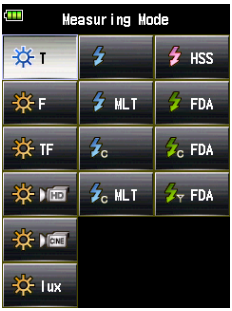
Measuring Mode Screen Default (All ON)



Measuring Mode Screen All OFF in Flash Mode



Measuring Mode Screen Individually OFF in Flash Mode

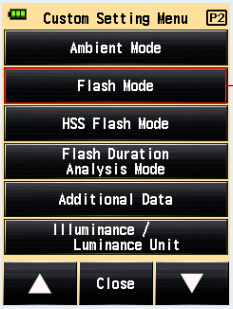


Operation

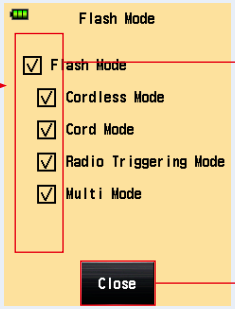
1. Touch the [Flash Mode] Button on page 2 of the Custom Setting Menu Screen.

The Flash Mode Screen is displayed.

Custom Setting Menu Screen



Flash Mode Screen



Default (All ON)

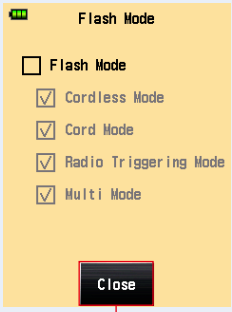
[Close] Button

2. Touch the check boxes of the Measuring Modes to display or not.

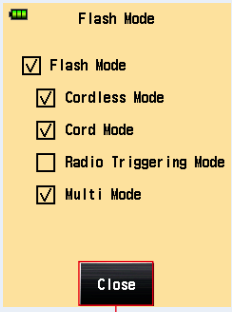
To display, select their check boxes (☑). To hide, clear the check boxes (☐).

If you clear the "Flash Mode" check box, all the Flash Modes are hidden collectively, and you will not be able to select any Measuring Mode under "Flash Mode". To individually display or hide each Measuring Mode, select the desired modes under "Flash Mode" without clearing the "Flash Mode" check box.

Measuring Mode Screen All OFF in Flash Mode



Measuring Mode Screen Individually OFF in Flash Mode



[Close] Button

3. Touch [Close] Button.

The display returns to the Custom Setting Menu Screen.

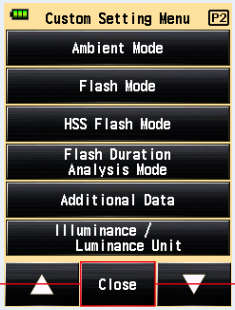
4. Touch [Close] Button on the Custom Setting Menu Screen.

The display returns to the Menu Screen.

5. Touch [Close] Button on the Menu Screen.

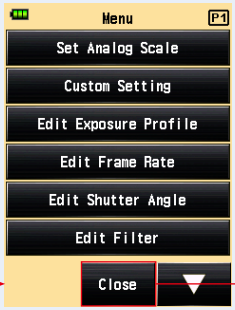
The display returns to the Measuring Screen.

Custom Setting Menu Screen



[Close] Button

Menu Screen

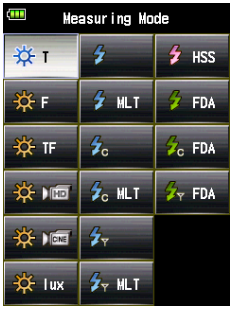


[Close] Button

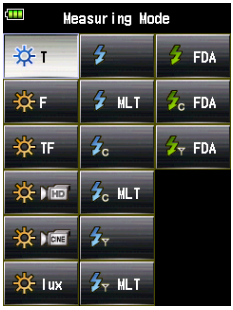
9) HSS Flash Mode Setting

You can select Measuring Modes to be displayed on the Measuring Mode Screen.
Set the HSS (High Speed Synchro) Mode to ON or OFF.

Measuring Mode Screen Default (All ON)



Measuring Mode Screen HSS Flash Mode OFF

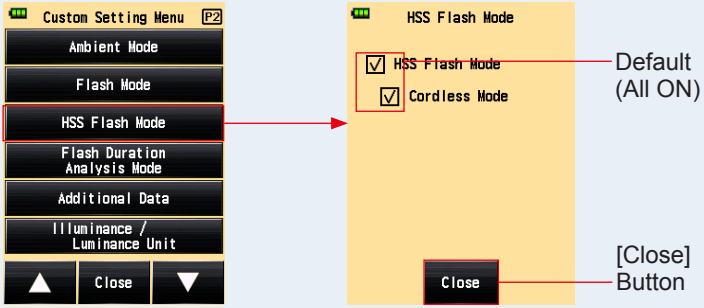


Operation

1. Touch the [HSS Flash Mode] Button on page 2 of the Custom Setting Menu Screen.

The HSS Flash Mode Screen is displayed.

Custom Setting Menu Screen **HSS Flash Mode Screen**

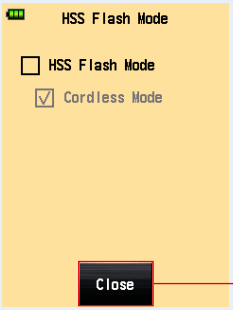


2. Check the HSS Flash Mode check box.

To display, select their check boxes (☑). To hide, clear the check boxes (☐).

The HSS Flash Mode is only available in the Cordless Mode. Therefore, all modes are displayed or hidden regardless of whether "HSS Flash Mode" or "Cordless Mode" is selected.

HSS Flash Mode Screen



3. Touch [Close] Button.

The display returns to the Custom Setting Menu Screen.

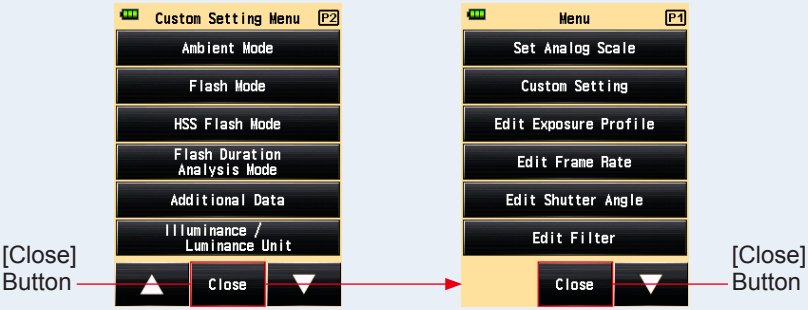
4. Touch [Close] Button on the Custom Setting Menu Screen.

The display returns to the Menu Screen.

5. Touch [Close] Button on the Menu Screen.

The display returns to the Measuring Screen.

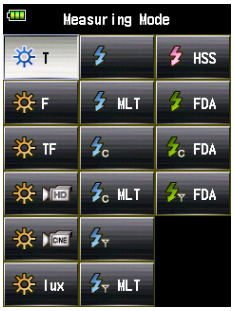
Custom Setting Menu Screen **Menu Screen**



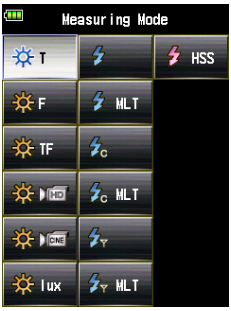
10) Flash Duration Analysis Mode Setting

You can select Measuring Modes to be displayed on the Measuring Mode Screen. Display of all Flash Duration Analysis Modes can be switched ON or OFF collectively, or Measuring Mode can be switched ON/OFF individually.

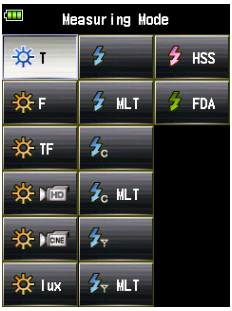
Measuring Mode Screen Default (All ON)



Measuring Mode Screen Flash Duration Analysis Mode All OFF



Measuring Mode Screen Each Flash Duration Analysis Mode OFF individually

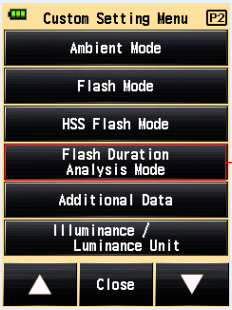


Operation

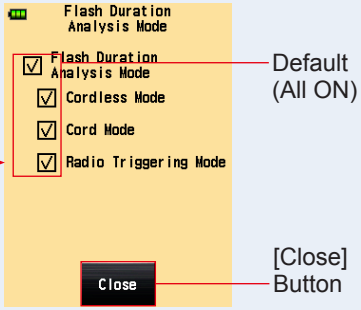
1. Touch the [Flash Duration Analysis Mode] Button on page 2 of the Custom Setting Menu Screen.

The Flash Duration Analysis Mode Screen is displayed.

Custom Setting Menu Screen



Flash Duration Analysis Mode Screen

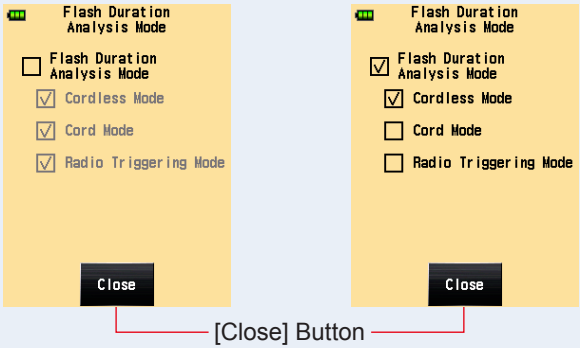


2. Touch the check boxes of the Measuring Modes you want to display or hide.

To display, select their check boxes (☑). To hide, clear the check boxes (☐).

If you clear the "Flash Duration Analysis Mode" check box, all the Flash Duration Analysis Modes are hidden collectively, and you will not be able to select any Measuring Mode under "Flash Duration Analysis Mode". To individually display or hide each Measuring Mode, select the desired modes under "Flash Duration Analysis Mode" without clearing the "Flash Duration Analysis Mode" check box.

Flash Duration Analysis Mode Screen



3. Touch [Close] Button.

The display returns to the Custom Setting Menu Screen.

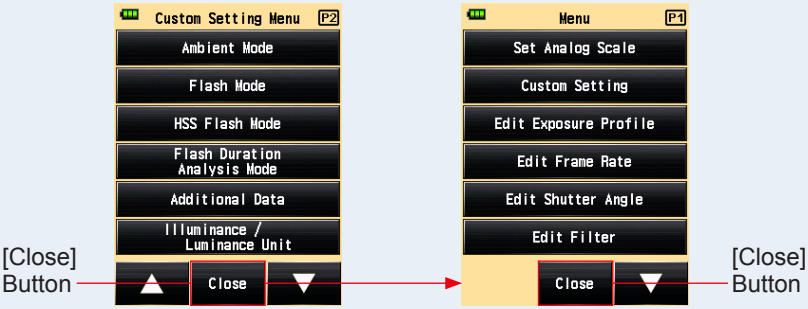
4. Touch [Close] Button on the Custom Setting Menu Screen.

The display returns to the Menu Screen.

5. Touch [Close] Button on the Menu Screen.

The display returns to the Measuring Screen.

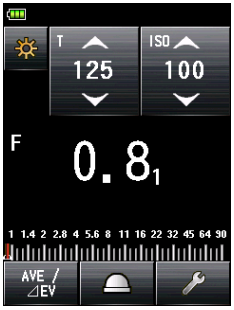
Custom Setting Menu Screen **Menu Screen**



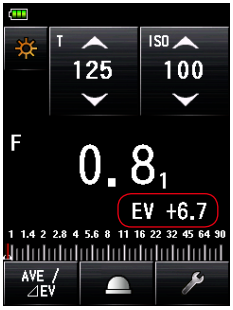
11) Additional Data Setting

Set the contents of additional data to be displayed on the lower right of the measurement value on the Measuring Screen.

Measuring Screen Default (No additional data)



Measuring Screen Additional data for EV value



Measuring Screen Additional data for illuminance / luminance

Operation

1. Touch the [Additional Data] Button on page 2 of the Custom Setting Menu Screen.

The Additional Data Screen is displayed.

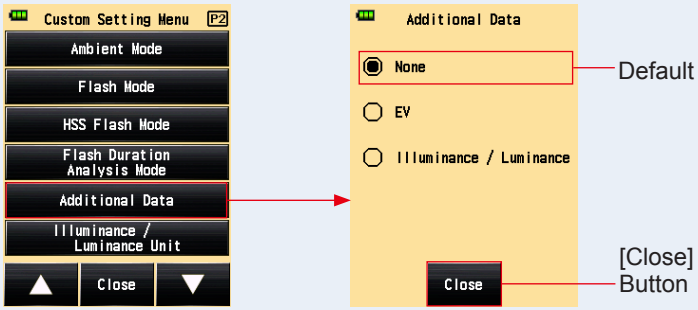
2. Touch the desired item.

Touch the desired radio button or an area around the item name to select.

3. Touch [Close] Button.

The display returns to the Custom Setting Menu Screen.

Custom Setting Menu Screen **Additional Data Screen**

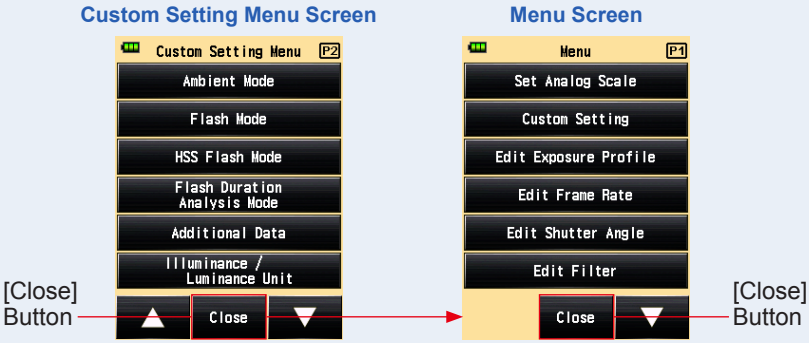


4. **Touch [Close] Button on the Custom Setting Menu Screen.**

The display returns to the Menu Screen.

5. **Touch [Close] Button on the Menu Screen.**

The display returns to the Measuring Screen, and the updated content is applied to the Measuring Screen.



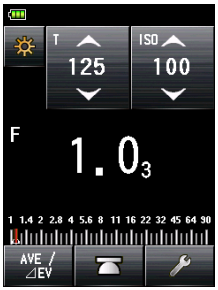
NOTICE

The additional data is not displayed in the viewfinder in the reflected light system.

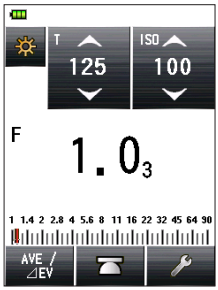
12) Color Theme Setting

Set the color theme of the Measuring Screen.
You can select the screen background color from black, white, rose, and blue.

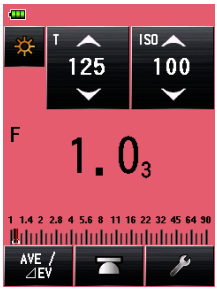
Black (Default)



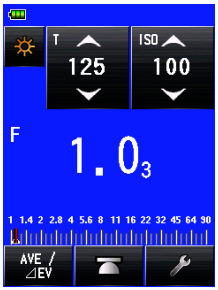
White



Rose



Blue



NOTICE

The viewfinder background color in the reflected light system cannot be changed.

Operation

1. Touch the [Color Theme] Button on page 3 of the Custom Setting Menu Screen.

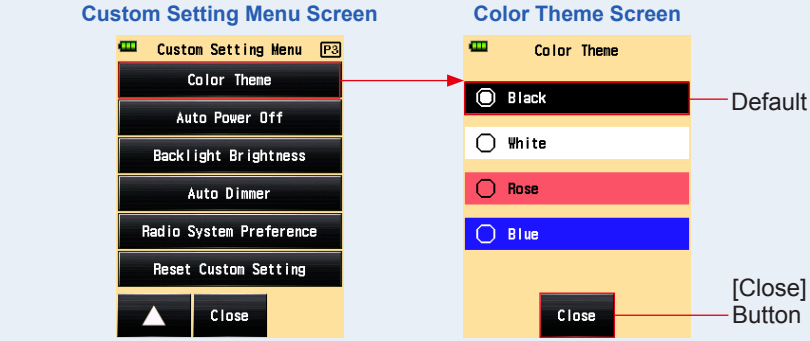
The Color Theme Screen is displayed.

2. Touch the desired item.

Touch the desired radio button or an area around the item name to select.

3. Touch [Close] Button.

The display returns to the Custom Setting Menu Screen.

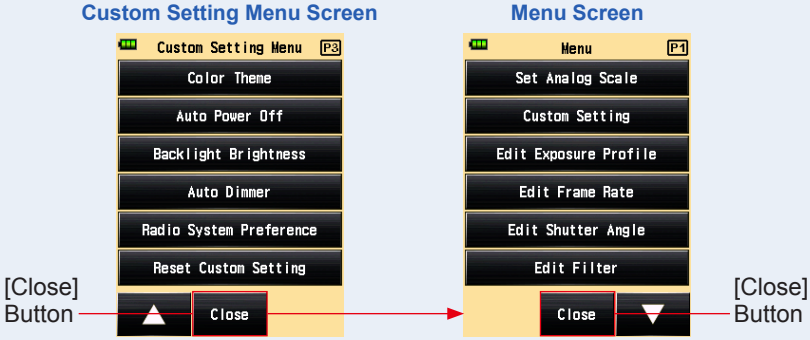


4. Touch [Close] Button on the Custom Setting Menu Screen.

The display returns to the Menu Screen.

5. Touch [Close] Button on the Menu Screen.

The setting is applied, and the display returns to the Measuring Screen.



13) Auto Power Off Time Setting

Set the auto power off time.
You can select "5 min", "10 min", "20 min", or "No auto power off" as the length of the period from the time when the last operation on the meter was carried out to the time when the Auto Power Off Function is activated. When "No auto power off" is selected, the power is not turned off automatically.

Operation

1. Touch the [Auto Power Off] Button on page 3 of the Custom Setting Menu Screen.

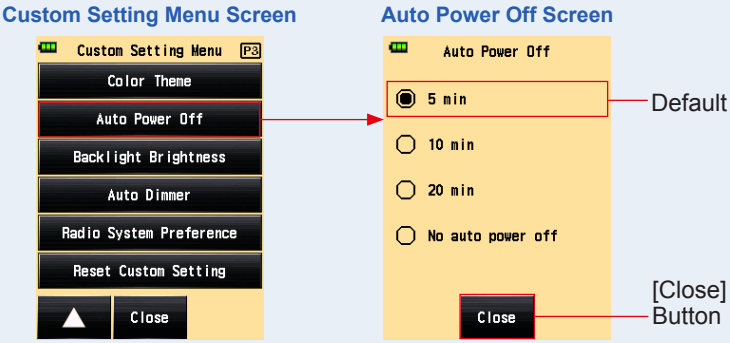
The Auto Power Off Screen is displayed.

2. Touch the desired item.

Touch the desired radio button or an area around the item name to select.

3. Touch [Close] Button.

The display returns to the Custom Setting Menu Screen.

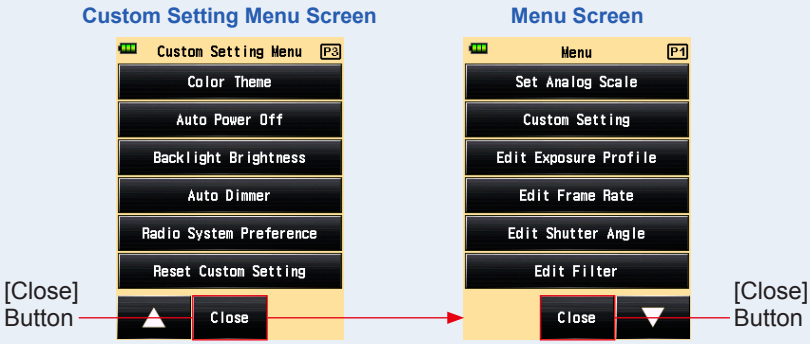


4. Touch [Close] Button on the Custom Setting Menu Screen.

The display returns to the Menu Screen.

5. Touch [Close] Button on the Menu Screen.

The display returns to the Measuring Screen.



14) Backlight Brightness Setting

Set the backlight brightness.
You can select "Bright", "Normal", or "Dark" as the backlight brightness of the screen.
"Bright" is set as the default. For longer battery life, set this item to "Normal" or "Dark".

Operation

1. Touch the [Backlight Brightness] Button on page 3 of the Custom Setting Menu Screen.

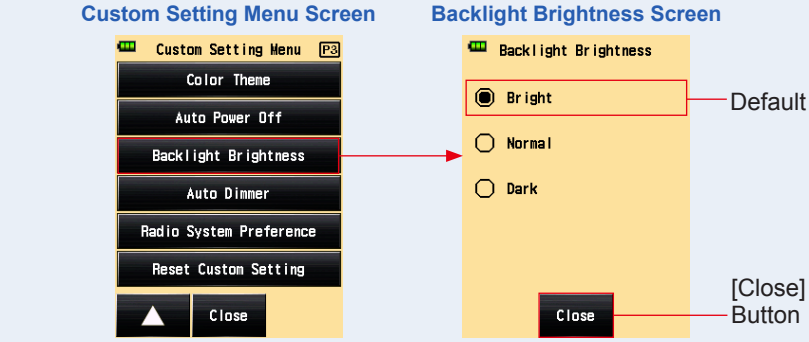
The Backlight Brightness Screen is displayed.

2. Touch the desired item.

Touch the desired radio button or an area around the item name to select.

3. Touch [Close] Button.

The display returns to the Custom Setting Menu Screen.

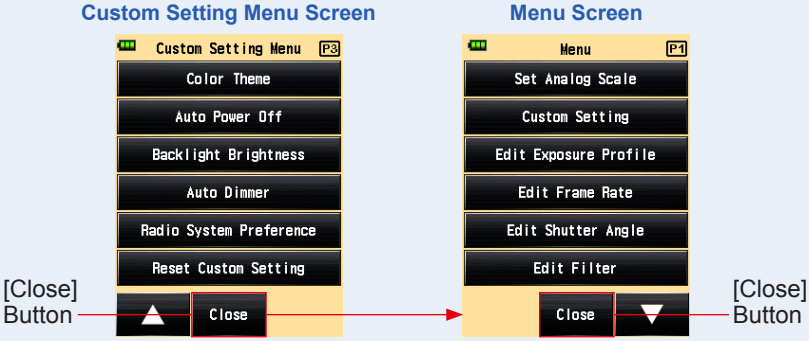


4. Touch [Close] Button on the Custom Setting Menu Screen.

The display returns to the Menu Screen.

5. Touch [Close] Button on the Menu Screen.

The display returns to the Measuring Screen.



15) Auto Dimmer Setting

Set the time to dim the LCD backlight.
You can select "20 sec", "40 sec", "60 sec", or "No dimmer" as the length of the period from the time when the last operation on the meter was carried out to the time when the backlight dims.

Operation

1. Touch the [Auto Dimmer] Button on page 3 of the Custom Setting Menu Screen.

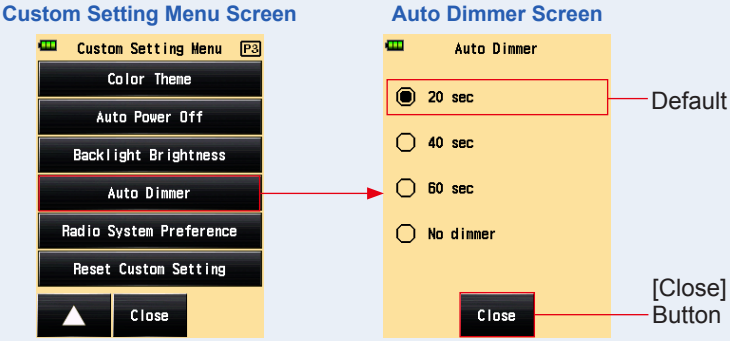
The Auto Dimmer Screen is displayed.

2. Touch the desired item.

Touch the desired radio button or an area around the item name to select.

3. Touch [Close] Button.

The display returns to the Custom Setting Menu Screen.

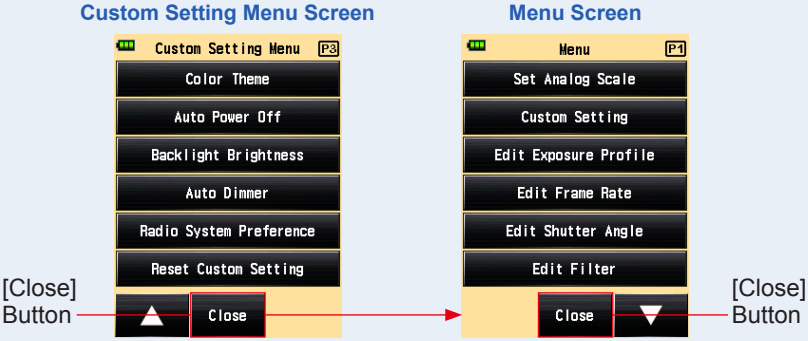


4. Touch [Close] Button on the Custom Setting Menu Screen.

The display returns to the Menu Screen.

5. Touch [Close] Button on the Menu Screen.

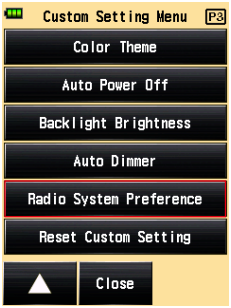
The display returns to the Measuring Screen.



16) Radio System Preference Setting

Select the radio system used in Radio Triggering Flash Mode and Flash Duration Analysis Radio Triggering Mode.
This Custom Setting menu is only displayed when a transmitter (sold separately) is installed on the meter.
For details, see the manual of the transmitter (sold separately).

Custom Setting Menu Screen



17) Reset Custom Setting

Reset each setting value in Custom Setting to the default value.
You can only reset the "custom setting item" in the meter setting. To reset all the meter settings to the factory settings, perform the procedure from the hardware setting.
(➡ P193)

Operation

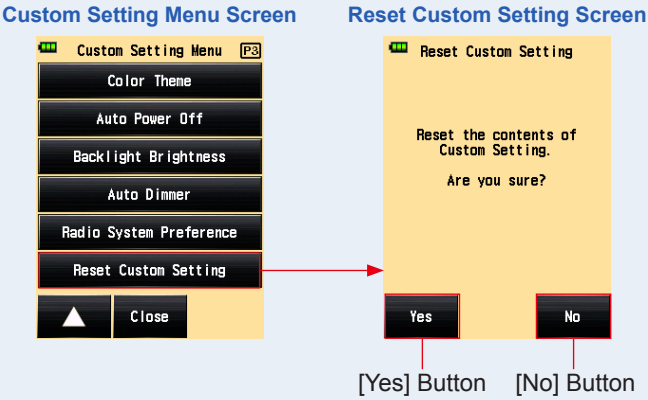
1. Touch the [Reset custom setting] Button on page 3 of the Custom Setting Menu Screen.

The Reset Custom Setting Screen is displayed.
The "Reset the contents of Custom Setting. Are you sure?" message is displayed.

2. Touch [Yes] Button.

All of the custom setting items are reset to the default, and the display returns to the Custom Setting Menu Screen.

Touch [No] Button to return to the Custom Setting Menu Screen without reset of all custom setting items.

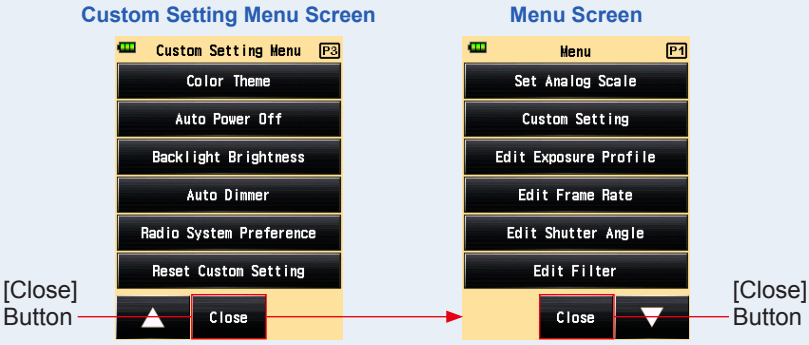


3. Touch [Close] Button on the Custom Setting Menu Screen.

The display returns to the Menu Screen.

4. Touch [Close] Button on the Menu Screen.

The display returns to the Measuring Screen.



7. Hardware Setting

7-1 Hardware Setting Screen

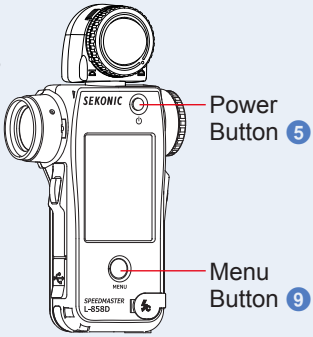
The following settings can be made on the Hardware Setting Screen.

- User calibration of measured value
- Adjustment of touch panel display position
- Reset to factory settings (default settings)
- User information editing

Operation

1. Ensure that the power is turned off, press the Power Button 5 while holding down the Menu Button 9 of the meter.

The Hardware Setting Screen is displayed.

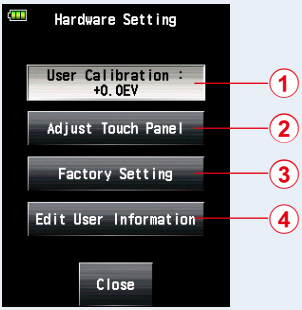


NOTICE

Do not release the Menu Button 9 until the Hardware Screen is displayed.

2. Touch the item on the Hardware Setting Screen.

Hardware Setting Screen



No.	Item	Description
①	**User Calibration**	Allows you to preset a compensation value for a measured value and apply it to the measurement result. (Setting range: -1.0 EV to 1.0 EV)
②	**Adjust Touch Panel**	Touch the white cross cursor displayed on the screen, and adjust the touch panel position.
③	**Factory Setting**	Allows you to reset various parameters and settings in the meter to their factory settings.
④	**Edit User Information**	Allows you to edit user information.

7-1-1 User Calibration

The meter is calibrated to Sekonic standards. However, if necessary, you can change the measurement standard using the User Calibration Function. The compensation value can be set +/- 1.0 EV in 0.1 EV step increments.
If you know the compensation value in advance, you can directly enter the value. Also, you can adjust the meter based on a measured value obtained using another light meter.

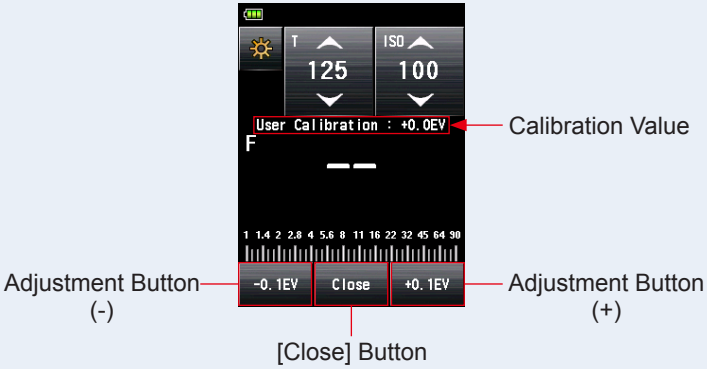
Operation

<When you know the compensation value in advance>

1. Touch the [User Calibration] Button.

The User Calibration Screen is displayed.

User Calibration Screen



2. Adjust the calibration value.

Use the Adjustment Button (-0.1EV) or (+0.1EV) to adjust the calibration value in increments of +/-0.1 EV.

3. Touch [Close] Button.

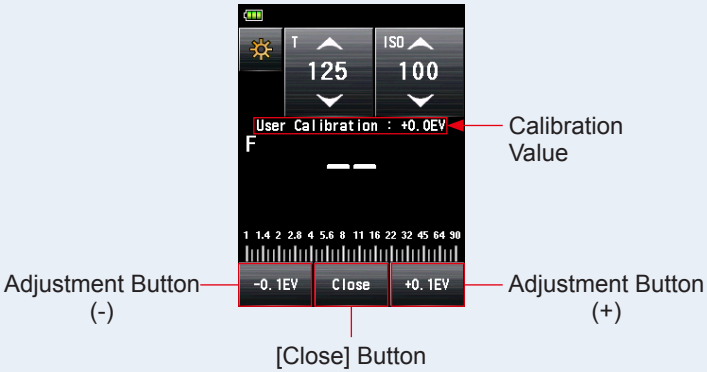
Finish the setting, and return to the Hardware Setting Screen.

<When adjusting the meter based on a measured value obtained using another light meter>

1. Touch the [User Calibration] Button.

The User Calibration Screen is displayed.

User Calibration Screen



2. Press the Measuring Button 6.

The User Calibration Screen allows you to make measurements, thus you can equalize measured values obtained using another light meter under the same light source.

3. Adjust the calibration value.

Touch the Adjustment Button (-0.1EV) or (+0.1EV) to adjust the calibration value in increments of +/-0.1 EV.

4. Touch [Close] Button.

Finish the setting, and return to the Hardware Setting Screen.

NOTICE

- **User calibration carried out in Hardware Setting is not displayed on the status bar.**
- **Calibration of the measured value must be performed based on a sufficient number of test shooting results.**
- **Note that the individual compensation is possible in the incident light system and reflected light system while uniform compensation is applied in Ambient Mode and Flash Mode.**

7-1-2 Adjust Touch Panel

This function allows you to adjust the coordinate position that is recognized by the touch sensor of the touch panel.

Operation

1. Touch the [Adjust Touch Panel] Button.

The Adjust Touch Panel Screen is displayed.

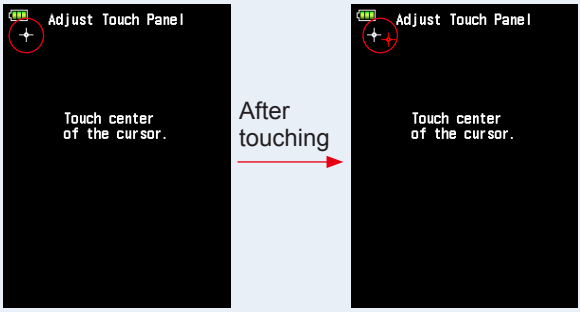
The white cross cursor appears on the screen.

The "Touch center of the cursor." message is displayed.

2. Touch the white cross cursor.

A red cross cursor is displayed at the position you touched.

Adjust Touch Panel Screen

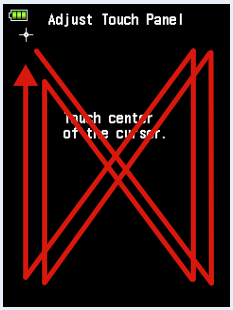


3. Perform this procedure twice at each of four positions.

After being touched, the white cross cursor is displayed at another position.

The cursor is displayed twice in four corners in the following order: top left → bottom right → top right → bottom left → top left → bottom right → top right → bottom left. Repeat this procedure in sequence.

Adjust Touch Panel Screen



4. Check the adjustment result.

When you have touched the cursor in all the corners, the "Data is determined by pressing the "OK"." message is displayed.

Adjust Touch Panel Screen

[OK] Button — [Cancel] Button

5. Touch [OK] Button.

Finish the setting, and the display returns to the Hardware Setting Screen.

Touch [Cancel] Button to return to the Hardware Setting Screen without applying the touch panel adjustment.

7-1-3 Factory Setting

This function resets all the parameters and settings related to measured values, setting values, custom settings, user information, etc. to the factory settings. See "6-7 Custom Setting" for the factory default custom settings. (➡ P156)

Operation

1. Touch the [Factory Setting] Button.

The "Reset to factory default settings. Are you sure?" message is displayed on the Factory setting Screen.

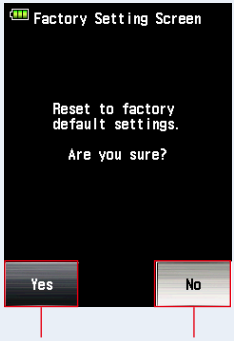
2. Touch [Yes] Button.

To perform this operation, touch the [Yes] Button.

The "All measurements will be lost when you perform this operation. Are you sure?" message is displayed on the Factory Setting Confirmation Screen.

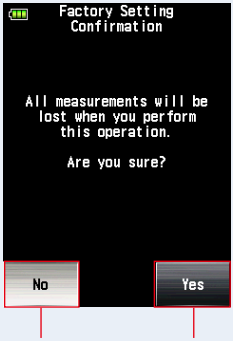
Touch [No] Button to return to the Hardware Setting Screen without performing the factory setting.

Factory Setting Screen



[Yes] Button [No] Button

Factory Setting Confirmation Screen



[No] Button [Yes] Button

3. Touch [Yes] Button.

The factory settings are initialized, and the display returns to the Hardware Setting Screen.

Touch [No] Button to return to the Hardware Setting Screen without performing the factory setting.

7-1-4 Edit User Information

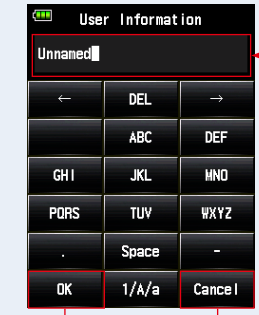
This function allows you to edit user information. The input user information is displayed on the Product Information Screen of the Menu.

Operation

1. Touch the [Edit User Information] Button.

The User Information Screen is displayed.

User Information Screen



2. Input user information.

User information can be input using up to 31 characters. (See ➡ P12 for details about how to input the value.)

3. Touch [OK] Button.

After inputing user information, touch the [OK] Button.

The display returns to the Hardware Setting Screen.

Touch [Cancel] Button to return to the Hardware Setting Screen without changing the User information.

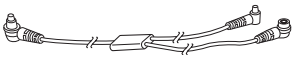
4. Touch [Close] Button on the Hardware Setting Screen.

Finish the setting, and return to the Measuring Screen.

8. Optional Accessories

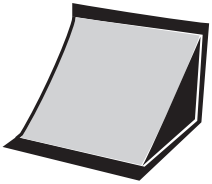
Synchro Cord

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)



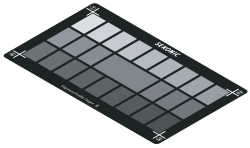
Standard Gray Card

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. (Size: 125mm x 123mm = 4.9" x 4.8" when in use, 72mm x 123mm = 2.8" x 4.8" when folded)



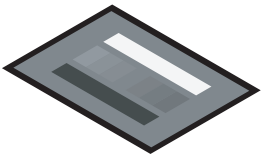
Exposure Profile Target II

Simpler to use, this is the test target used to create camera exposure profiles. One side consists of a central 18% gray patch that is surrounded by 24 patches arranged in 1/6th stop values that are successively brighter and darker, while the other side is 18% gray card, so it can be used to determine digital camera white balancing and spot metering.
(Size: 350 mm × 210 mm = 13.8" x 8.3")

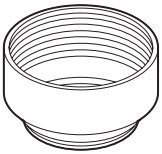


Exposure Profile Target

This is more economical test target used to create camera exposure profiles. One side is nine gray patches including black and white, and the other side is an 18% gray card for digital camera white balancing and spot metering.
(Size: 280 mm x 180 mm = 11" x 7.1")

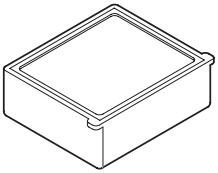


Step-up Ring



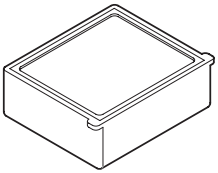
You can attach the step-up ring (30.5 mm → 40.5 mm) to the objective lens side to use a commercially available filter. This allows you to determine the exposure without troublesome correction calculation of the PL filter. PL filters have the circular polarized light and polarized light types, however, only the circular polarized light type can be used. The step-up ring can also be used as a lens hood to protect the spot lens from damage or dirt and avoid lens glare which could cause incorrect light measurements etc.

RT-EL/PX Transmitter



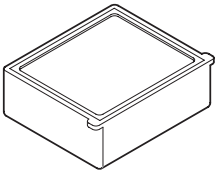
This transmitter, compatible with 2.4Ghz Elinchrom radio system (EL-Skyport) and Phottix radio system (Strato II protocol), separately requires a receiver for the relevant system on the flash side. Installing the transmitter in the L-858D enables to trigger the electronic flash units wirelessly with radio signal for measurement. With EL-Skyport system, it allows you to control the power of flash units and modeling lamps as well as turn the power ON/OFF of modeling lamps.

RT-20PW



This transmitter, compatible with 344Mhz frequency of PocketWizard radio system, separately requires a receiver for the relevant system on the flash side.
Installing the transmitter in the L-858D enables to trigger the electronic flash units wirelessly with radio signal for measurement. With ControlTL system, it allows you to control the power of flash units and turn the power ON/OFF of modeling lamps.

RT-3PW



This transmitter, compatible with 433Mhz frequency of PocketWizard radio system, separately requires a receiver for the relevant system on the flash side.
Installing the transmitter in the L-858D enables to trigger the electronic flash units wirelessly with radio signal for measurement. With ControlTL system, it allows you to control the power of flash units and turn the power ON/OFF of modeling lamps.

9. Various Setting Values

9-1 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, 10,000, 12,800, 16,000, 20,000, 25,600, 32,000, 40,000, 51,200, 64,000, 80,000, 102,400, 128,000, 160,000, 204,800, 256,000, 320,000, 409,600, 512,000, 640,000, 819,200, 1,024,000, 1,280,000, 1,638,400, 2,048,000, 2,560,000, 3,276,800, 4,096,000, 5,120,000, 6,553,600, 8,192,000, 10,240,000, 13,107,200

9-2 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 1/64,000 sec. In Flash Mode, the fastest shutter speed setting is 1/16,000 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)	30m, 15m, 8m, 4m, 2m, 1m, 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, 1/16,000, 1/32,000, 1/64,000, 1/75, 1/80, 1/90, 1/100, 1/200, 1/400
1/2 step increments	30m, 20m, 15m, 10m, 8m, 6m, 4m, 3m, 2m, 1.5m, 1m, 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, 1/12,000, 1/16,000, 1/24,000, 1/32,000, 1/50,000, 1/64,000, 1/75, 1/80, 1/90, 1/100, 1/200, 1/400
1/3 step increments	30m, 25m, 20m, 15m, 13m, 10m, 8m, 6m, 5m, 4m, 3.2m, 2.5m, 2m, 1.6m, 1.3m, 1m, 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, 1/10,000, 1/13,000, 1/16,000, 1/20,000, 1/26,000, 1/32,000, 1/40,000, 1/50,000, 1/64,000, 1/75, 1/80, 1/90, 1/100, 1/200, 1/400
HD Cine Mode only	The following special shutter speeds appear after the fastest shutter speed setting. 1/6, 1/6.25, 1/7.5, 1/12, 1/12.5, 1/15, 1/24, 1/25, 1/30, 1/48, 1/50, 1/60, 1/96, 1/100, 1/120, 1/192, 1/200, 1/240

9-3 F-stop (Aperture)

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

<Incident light system>	
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, 128
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, 108, 128, 152
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, 102, 114, 128, 144, 161

9-4 Frame Rate

The available frame rate (f/s) settings are as follows. In addition to these values, you can register up to 20 frame rates.

1, 2, 3, 4, 6, 8, 10, 12, 14, 15, 16, 18, 20, 23.976, 24, 25, 29.97, 30, 32, 36, 40, 47.952, 48, 50, 59.94, 60, 64, 72, 75, 90, 96, 100, 120, 125, 128, 150, 180, 200, 240, 250, 256, 300, 360, 375, 500, 625, 750, 1,000

9-5 Shutter Angle

The available shutter angle settings are as follows. In addition to these values, you can register up to 20 shutter angles.

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 11.25, 12, 15, 17, 20, 22, 22.5, 25, 30, 35, 40, 43.2, 45, 50, 55, 60, 65, 69, 70, 72, 75, 80, 85, 86.4, 90, 95, 100, 105, 108, 110, 115, 120, 125, 130, 135, 140, 144, 145, 150, 155, 160, 165, 170, 172, 172.8, 175, 180, 185, 190, 195, 200, 205, 210, 215, 216, 220, 225, 230, 235, 240, 245, 250, 255, 260, 262, 265, 270, 288, 316, 358

9-6 Filter Names and Compensation Values

The following table shows the L-858D's default filter names and compensation values that are displayed when a filter name is selected. In addition to these values, you can register up to 30 filter names.

No.	Filter Name	Compensation value (EV value)
1	**ND0.3**	-1.0
2	**ND0.6**	-2.0
3	**ND0.9**	-3.0
4	**CTO Double**	-2.1
5	**CTO Full**	-1.1
6	**CTO Three-Quarter**	-0.8
7	**CTO Half**	-0.5
8	**CTO Quarter**	-0.3
9	**CTO Eighth**	-0.1
10	**No.85**	-0.8
11	**CTB Double**	-3.3
12	**CTB Full**	-1.5
13	**CTB Three-Quarter**	-1.3
14	**CTB Half**	-0.9
15	**CTB Quarter**	-0.4
16	**CTB Eighth**	-0.3
17	**Minusgreen Full**	-0.9
18	**Minusgreen Half**	-0.5
19	**Minusgreen Quarter**	-0.3
20	**Minusgreen Eighth**	-0.2
21	**Plusgreen Full**	-0.4
22	**Plusgreen Half**	-0.2
23	**Plusgreen Quarter**	-0.1
24	**Plusgreen Eighth**	-0.2

10. Specifications

Type

- Digital light meter for flash and ambient light

Light Receiving Method

- Incident light and reflected light

Light Receptor

• Incident light	Extended lumisphere convertible to retracted lumisphere (The lumisphere also functions as a retracted lumisphere when it is retracted into the meter.)
• Reflected light	Single-eye spot with in-viewfinder indicators (light receiving angle: 1 degree) Measuring distance: 1 m to ∞

Light Receptor Element

- Silicon photo diodes

Measuring Mode

• Ambient light	T (shutter speed) priority F (f-stop) priority TF (shutter speed and aperture) priority HD Cine Cine Illuminance (lux or foot-candle) Luminance (cd/m^2 or foot-lambert)
• Flash light	Cord Mode (with/without multi cumulative) Cordless Mode (with/without multi cumulative) Radio Triggering (with/without multi cumulative) * Available when a transmitter (sold separately) is installed
• HSS flash	Cordless Mode (without multi cumulative)
• Flash duration analysis (for incident light only)	Cord Mode (without multi cumulative) Cordless Mode (without multi cumulative) Radio Triggering (without multi cumulative) * Available when a transmitter (sold separately) is installed

Repeat Accuracy

- 0.1EV or less (Incident light: from EV-2, Reflected light : from EV1)
- 0.2EV or less (Incident light: under EV-2, Reflected light : under EV1)

Measuring Range (ISO100)

• Ambient light	Incident light	EV-5 to EV+22.9
	Reflected light	EV-1 to EV+24.4
• Flash light	Incident light	F0.5 to F128.9 (= F161.2)
	Reflected light	F1.0 to F128.9 (= F161.2)
• Illuminance (in two significant digits)	Incident light	0.10 lx to 2,000,000 lx 0.01 to 180,000 fc

• Luminance (in two significant digits)	Reflected light	0.10 cd/m^2 to 980,000 cd/m^2 0.03 to 290,000 fl
Calibration Constant		
• Incident light	Lumisphere C = 340	Flat diffuser (retracted lumisphere) C = 250
• Reflected light	K = 12.5	
Display Range		
• ISO	ISO 3 to ISO 13,107,200 (in 1/3 steps), ISO 850	
• Shutter speed	Ambient light	30 min to 1/64,000 sec, 1/200, 1/400 (in 1, 1/2, and 1/3 steps)
	Flash light	30 min to 1/16,000 sec, 1/75, 1/80, 1/90, 1/100, 1/200, 1/400 (in 1, 1/2, and 1/3 steps)
• Flash duration time	1/40s to 1/55,500 sec (25 ms to 18 us) t0.1 to t0.9 (in 0.1 steps)	
• Aperture	F0.5 to F128.9 (in 1 steps) F0.5 to F152.4 (in 1/2 steps) F0.5 to F161.2 (in 1/3 steps)	
• EV	Incident light	EV-73.9 to EV+103.8
	Reflected light	EV-69.9 to EV+105.3
• Frame rate (f/s)	1f/s to 1,000f/s Plus 20 other user settings from 0.001f/s to 99,999.999f/s	
• Shutter angle	1° to 358° Plus 20 other user settings from 0.001° to 360°	
• Analog display	T scale 4s to 1/2000s (in 1/3 steps) F scale F1.0 to F90 (in 1/3 steps) EV scale -3EV to +3EV (incident light, in 1/3 steps) -7EV to +7EV (reflected light, in 1/3 steps)	
	Illuminance lux	0 to 50,000 lx
	Luminance cd/m^2 (candela per square meter)	0 to 2,500 cd/m^2
• Contrast Function	-9.9EV to +9.9EV (in 0.1 steps)	
• Cumulative count	0 to 99 times (Maximum of 99 times for display, the number of measurement is infinite)	
• Filter compensation value	-12.0EV to +12.0EV (in 0.1 steps)	
• Filter name compensation selection	Up to four types can be used simultaneously. Plus 30 user settings	
• Exposure compensation	-9.9EV to +9.9EV (in 0.1 steps)	
• User calibration	-1.0EV to +1.0EV (in 0.1 steps)	

Other Functions

- Exposure profile — Up to 10 profiles can be displayed.
- Flash Analyzing Function — 0 to 100% (in 10% steps)
- Memory Function — Up to 9 measurements can be memorized
- Memory Clear and Memory Recall Functions
- Average Function — Calculates an average of up to nine memorized values
- Out of display or measurement range — Under, Over warning display
- Battery power indicator display — Four levels
- Auto Power OFF Function — Can be selected in Custom Setting
- LCD backlight — Backlight brightness and dimmer time can be selected in the Custom Setting.
- Touch Panel Lock Function
- Custom settings — 16 items (17 items when a transmitter (sold separately) is installed) + Reset
- Tripod socket — 1/4 in, 20 threads

LCD

- LCD panel — 2.7-inch color dot matrix LCD with Touch panel function

Power Supply

- Two 1.5V AA batteries — (Alkaline and manganese batteries are recommended.)

Operating Ambient Temperature

- -10°C to 50°C (no condensation)

Operating Ambient Humidity

- 85% RH or less (at 35°C) (no condensation)

Transportation and Storage Conditions

- Ambient temperature — -20°C to 60°C (no condensation)
  * Depends on the specification of batteries in use.
- Ambient humidity — 85% RH or less (at 35°C) (no condensation)

Dimensions

- Approx. 94 (W) × 176 (H) × 49 (D) mm (excluding light receptor)
  * Excluding the buttons and other protrusions

Weight

- Approx. 240 g (without batteries)

Standard Accessories

- Soft case, strap, lens cap (installed on the meter), anti-glare sheet for LCD screen
  Startup Guide, Safety Precautions

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

11. Legal Requirement

This product complies with the following legal requirements.

Destination	Standard		Details
Europe	CE 	SAFETY	EN 60950-1:2006 + A1:2010 + A2:2013
		EMC	EMS: EN55024:2010 EMI: EN55032:2012/AC:2013
		Wireless	EN300 220-2 V2.4.1 EN301 489-1 V1.9.2 EN301 489-3 V1.6.1 EN300 440-2 V1.4.1 EN62479:2010
		Environmental	WEEE, RoHS
North America	FCC (US) 	EMC	FCC Part15 SubpartB ClassB
		Wireless	FCC Part15 SubpartC
	IC (Canada)	EMC	ICES-003
		Wireless	RSS-210 Issue9
Japan	Environmental Standard		Containers and Packaging Recycling Act
	Radio Act 		Certification of construction type prescribed in Article 38-24 paragraph (1) of the Radio Act
Korea			This symbol mark indicates the registration of RRA. MSIP-REM-SK0-L-858D. 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.

12. 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 does not turn on. (No display)	Was the Power Button 5 pressed and held in for more than one second?	Hold the Power Button 5 down for more than one second.
	Batteries installed properly (+/-)?	Check the display (+/-). (➡ P4)
	Batteries dead?	Replace the batteries. (➡ P8)
	Battery terminals dirty?	Wipe them with a dry cloth.
	Correct batteries being used?	Check the batteries. (➡ P4)
The LCD screen doesn't respond.	Is the screen locked?	Hold down the Menu Button 9 to release the screen lock. (➡ P13)
The viewfinder does not show the measured value.	Is the light receiving method Incident Light Mode? (The display of measurement in the viewfinder is available in Reflected Light Mode only.)	Set the meter to Reflected Light Mode with Function Button or Tool Box Screen. (➡ P37, P39)
Can not measure.	Is it connected to a PC with the USB cable?	Remove- the USB cable. (➡ P23)
	Have Measuring Button and Memory Button Functions been switched?	Check the Custom Setting Function and switch the buttons if necessary. (➡ P5, ➡ P41, ➡ P157)
	Is the measured flash duration time longer than the input shutter speed?	Slower the shutter speed than the flash duration time and measure again. (➡ P96)

Condition	Possible reasons	What to do
Measured value does not look correct.	Is the lumisphere retracting ring at an intermediate position?	Rotate the lumisphere retracting ring until it clicks into place. (➡ P35)
	Is the light receiving method between Incident light and reflected light wrong?	Make sure if the light receiving method (incident or reflected) is correct, and set it with Function Button or Tool Box to take a measurement correctly.
	+/- values in ADJ (Exposure Compensation) or Filter area of Information Screen in use?	Check the exposure compensation (➡ P125) or filter compensation (➡ P127) are set correctly in Tool Box.
	Exposure Profile in use?	Check if correct exposure profile is selected in Tool Box, or properly created (➡ P147)
	Is a user calibration set with the Hardware Setting Function?	Check the user calibration (➡ P189), and check whether the set value is correct or not.
	Measuring Mode set for type of light being measured?	Check Measuring Mode Icon. To change, touch Icon to go to Measuring Mode Selection Screen.
	Flash being measured in Cordless Mode set for TTL or Auto? (Pre-flash being measured instead of exposure flash.)	Select manual modes for flash in use. Exposure meters cannot measure TTL flash. Set the number of pre-flash in Tool Box to measure the exposure flash correctly.
	Does the flash unit being used have the Pre-flash Function?	Set the number of pre-flash in Tool Box to measure the exposure flash correctly. (➡ P93)
In HD Cine Mode, cannot set lower shutter speed.	Normal function. 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.)	Select lower frame rate. Increase brightness to get desired F-number.
Displayed shutter speed and aperture values do not look like camera's settings.	Are display steps set for full or 1/2 or 1/3 equal to your camera?	Press Menu Button 9. Select 3. Custom Setting. Select Increments of T+F to set display properly.

Condition	Possible reasons	What to do
Can not use the memory	The Memory Function can't be used in the following Measuring Modes. - Cord Multiple (Cumulative) Flash Mode - Cordless Multiple (Cumulative) Flash Mode - Radio Triggering Multiple (Cumulative) Flash Mode - Illuminance/Luminance Measuring Mode	Use the Memory Function in modes other than those on the left.
	Is "Memory Full" displayed when you press the Memory Button ⑦? The memory can be used 9 times.	If you can't put the 10th or later measured value into the memory, clear unnecessary memory values on the Memory Clear Screen, and then measure and store the value again.
The EV is not displayed.	The EV value is displayed in the following Measuring Modes. - Ambient T Priority Mode - Ambient F Priority Mode - Ambient TF Priority Mode - Ambient HD Cine Mode - Ambient Cine Mode	Use a Measuring Mode which displays the EV value.
The EV scale is not displayed even though it is selected.	The EV scale can't be displayed in the following Measuring Modes. - Cord Multiple (Cumulative) Flash Mode - Cordless Multiple (Cumulative) Flash Mode - Radio Triggering Multiple (Cumulative) Flash Mode	Use the EV scale in a Flash Mode other than a Cumulative Mode. The measuring value scale (f-stop value) can be used in Cumulative Modes.
Can not trigger the flash in HSS Mode.	Is the synchro cord used to connect and measure?	HSS measurement is only available with Cordless Flash Mode. Set the meter to this mode, and manually trigger the flash to read.
Error 10 is displayed.	Did you turn the power supply off or remove the USB cable while updating the firmware on the data transfer software "Update" screen?	Overwrite the firmware on the data transfer software "Update" screen.

13. After-sales Services

- 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.

FCC & IC Compliance Information

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 instructions, may cause harmful interference to radio communications.
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 determined 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.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

FCC Warning
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IC Warning
This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

SEKONIC

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EU DECLARATION OF CONFORMITY

Product identification

Product	:	Digital Light Meter
Trademark	:	**SEKONIC**
Type	:	L-858D
Explanation and appearance of the product	:	The model L-858D is the exposure meter used for photography. This product is exposure meter which can measure incident light and the reflective light. Moreover, this exposure meter indicates the value which the strength of the light by digital.
Category of EEE	:	Cat. No.4 Consumer equipment

The product is in conformity with Low Voltage Directive 2014/35/EU, EMC Directive 2014/30/EU and RoHS Directive 2011/65/EU.

Standards applied

(Safety)	: IEC60950-1 (2ND EDITION +AMD1 +AMD2) EN60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013
(EMC)	: EN55032:2012, EN55024:2010
(Radio)	: RE Directive 2014/53/EU (Applied to optional radio module) RT-3PW : EN300 220-1 V2.4.1, EN300 220-2 V2.4.1 EN301 489-1 V1.9.2, EN301 489-3 V1.6.1, EN62479:2010 RT-EL/PX : EN300 440-2 V1.4.1, EN62479:2010
(RoHS)	: EN50581:2012

Test carried out by

(Safety)	: Japan Quality Assurance Organization, 1-7-7, Ishimaru, Minoh-shi, Osaka, Japan
(EMC)	: Japan Quality Assurance Organization, 7-3-10, Saito-asagi, Ibaraki-shi, Osaka, Japan
(Radio)	: Japan Quality Assurance Organization, 7-3-10, Saito-asagi, Ibaraki-shi, Osaka, Japan : TÜV SÜD Zacta Ltd. Yonezawa Testing Center 4149-7,Hachimanpara 5-chome,Yonezawa-shi,Yamagata 992-1128,Japan

Test report number

(Safety)	: CB Test Certificate : JPJQA-11868 Test report : KL65160183
(EMC)	: KL80160617, KL80160618
(Radio)	: KL80160613, KL80160614, KL80160616, Z101C-15113, Z101C-15114

Technical Documentations stored in : Technical Documentation File No. : I704-L858-001

Deputy in EU : Johnsons Photopia Limited.
Address : Hempstalls Lane, Newcastle Under Lyme, Staffordshire, ST5 0SW, England
Title : Managing Director

: Signature : _____
(Tim Harrison)

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