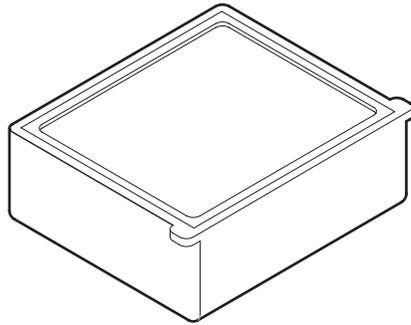# SEKONIC

Transmitter
RT-BR
Operating Manual

broncolor

This manual is specific for broncolor® operation.
Please read the "Operating Manual" and "Safety Precaution" so that you will fully understand the features and operation of this product.
Keep the operating manual in a safe place for future use.

■ 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

- **Please refrain from opening the product packaging with wet hands or in a dusty environment as this may cause damage to the product.**
- **Keep the materials used in this product out of the reach of children to prevent accidental ingestion and misuse.**

⚠ CAUTION

- **To avoid damage from static electricity, remove the static electricity from your body by touching metals located nearby (e.g. door knob, aluminum sash) before touching the radio transmitting module.**
- **Do not under any circumstances remodel or disassemble this product for modification or part replacement purposes.**

■ Terms and Trademarks

broncolor® is the registered trademark of Bron Elektronik AG.

NOTICE

- Do not use the meter in Cord Flash Mode at altitudes above 2,000m (6,561 feet).
- Be sure not to drop the product or subject it to sudden impacts, as the product will be damaged.
- Do not store the product in areas of high temperature of high humidity, as the product will be damaged.
- Be careful not to transport the product from cold to warm moist conditions as condensation will form on the product and may damage it.
- If the product 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 product in these types of locations.
- If the product 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 product in these types of locations.
- Reproduction of all or any part of this document without permission is strictly forbidden.
- The contents of this manual may be subject to change for the product's specification modifications and other reasons without prior notice.
- The screens in this operating manual may differ from the actual displays of the product you are using. (Colors, letters, etc.)

NOTE

In case of disposing the product, follow the rules of disposal in your area.

■ List of Applicable Model

This transmitter is an accessory dedicated to the following model (light meter).

Model		
Transmitter Model	Manufacturer/Frequency	L-858D Series Serial No.
RT-BR	broncolor : 2.4GHz	JY10-XXXXXX (For Japan)
		JY11-XXXXXX (For Europe and Canada)
		JY1L-XXXXXX (For US)
		JY1G-XXXXXX (For China)

■ Intended Use

This product can be used in the following situations.
  ● Radio wave-based flash light triggering or output power control
  ● Radio wave-based modeling lamp ON/OFF

■ Intended Users

The intended users of this product are those who are engaged in shooting or related businesses, such as photographers, who use the flash units.

■ Disclaimer

The Company shall not be liable for any direct or indirect damage resulting from the failure of this product or its use.

■ Features of the RT-BR

To use the radio triggering mode of the L-858D after the transmitter is installed, the flash unit must be equipped with a radio function supported by a specified manufacturer, or a receiver supporting the radio function must be connected to the flash unit.
Using the radio triggering mode, firing a flash or adjusting the output power by yourself can be easily accomplished remotely.
- Take measurements by placing the product at the subject's position with the light receptor (retracted lumisphere) facing toward the light sources of main light and fill light directly. Adjust the measured values for the desired lighting ratio.
- Turn on all light sources to measure the final exposure, and point the lumisphere (extended lumisphere) at the camera from the position of subject. (➡P14, P27)
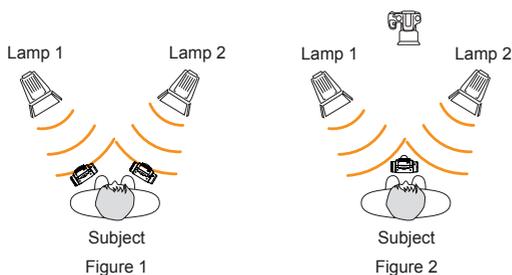
broncolor：Lamp：1 to 40

Lamp 1	Lamp 2	Lamp 1	Lamp 2

📷	Light meter (with the transmitter installed)
🔦	Light source (with a receiver built-in/installed)
📷	Camera

Subject — Figure 1

Subject — Figure 2

Note that this transmitter of RT-BR only supports the broncolor radio system.

Manufacturer	Radio Studio/Lamp	Function
broncolor	Radio Studio Address : 1 to 99 Lamp Address : 1 to 40, ALL	Flash light triggering and output power control, modeling lamp ON/OFF

■ Restrictions

There are some cautions and restrictions regarding the use of this product.
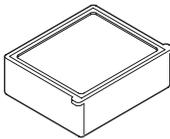Please read and understand the following before using the product.

NOTE

- The operation of this product may change without prior notice due to specification changes or other reasons. Therefore, the contents of this operating manual may differ from actual operation of the product.
  URL: https://www.sekonic.com/support/downloads
- 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.
- Before using this product, please read this "Safety Precautions" for proper operation.
- 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 product you are using. (Colors, letters, etc.)

■ Accompanying Accessories

The following items are included with the Transmitter RT-BR. 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 transmitter from.

Transmitter broncolor   Startup Guide   Safety Precaution

Table of Contents

1. Before Use

1-1 | Installing the Transmitter

⚠ WARNING

- **Please refrain from opening the product packaging with wet hands or in a dusty environment as this may cause damage to the product.**
- **Keep the materials used in this product out of the reach of children to prevent accidental ingestion and misuse.**

⚠ CAUTION

To avoid damage from static electricity, remove the static electricity from your body by touching metal objects located nearby (e.g. door knob, aluminum sash) before touching the radio transmitting module.

The numbering below refers to the L-858D Operating Manual.

1. **Turn OFF the meter.**

2. **Unlatch 15 and remove the Battery Cover 14.**

3. **Remove the Transmitter Connector Cover 19.**

4. **Align the connector pins with those of the Transmitter Module Compartment 18 and insert the Transmitter.**

Battery Cover 14   Transmitter Connector Cover 19   Transmitter
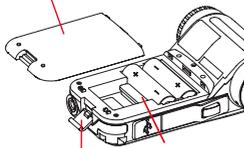
Transmitter Connector Cover 19
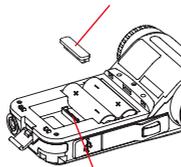
Connector pins

Transmitter Module Compartment 18
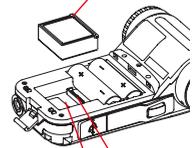
Battery Cover Latch 15

Connector pins

5. **Insert the Battery Cover ⑭ tabs (three) into the receiving holes in the meter body, press the Battery Cover ⑭ down and close the Battery Cover Latch ⑮.**

Battery Cover ⑭   Tabs (three)

Transmitter

Battery Cover Latch ⑮
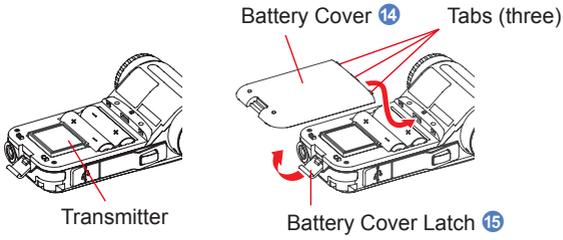
2. About broncolor Radio System

2-1   Overview

Triggering and controlling broncolor Wireless Flash require using broncolor Wireless Flash units receiver attached or installed. Once the transmitter module is installed in your L-858D, you will be able to adjust the power level and trigger flashes to get the look you desire.

The broncolor radio system allows you to adjust the power level of each flash unit individually when multiple flash units are in use. Also all flash units in the same Studio Address can be triggered simultaneously, as well as the modeling lamp ON/OFF.

For more information about the meter, refer to the L-858D Operating Manual.

For more information about broncolor Wireless radio systems, go to https://www.broncolor.swiss

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NOTICE

Successful radio triggering depends on several factors. Please read these setup steps before using the L-858D to radio trigger flash units.

1. It is the best to position the meter in sight of the radio receiver (or flash head).
2. Position the radio receiver so that it is away from large metallic objects, concrete, or containers of water (like people).
3. Sometimes, conditions do not allow radio reception. These could include strong local radio interference or being near objects that block or absorb the signal. Repositioning the radio, even slightly, can reestablish contact. Alternatively, check to see if the radio receiver is behind objects that absorb or block radio waves, such as concrete, metal or low hill.
4. The working distance of the radio triggering system can vary with the orientation and location of the meter and receivers, or the frequency (Radio Studio Address). The maximum radio triggering range is approximately 30 meters. If the distance is short, changing the Radio Studio Address (frequency) may improve the distance.

3

2-2 — Setting the Radio Studio/Lamp

Set the Radio Studio Address and Lamp Address for individual power control, used on broncolor radio system.

2-2-1 — Setting on the Tool Box Screen

Operation

1. **Select any Radio Mode in the Measuring Mode Screen.**
   (➡ P11 "", ➡ P19 "", ➡ P23 "")

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

3. **Touch the [Next Page] Icon ( ) of the Tool Box to display the Tool Box showing [Radio Studio/Lamp].**

4. **Touch [Radio Studio/Lamp] Button.**
   The Radio Studio/Lamp Screen is displayed.

[Measuring Screen]   **[Tool Box Screen] Page 1**   **[Tool Box Screen] Page 2**

[Tool Box] Icon   To Next Page
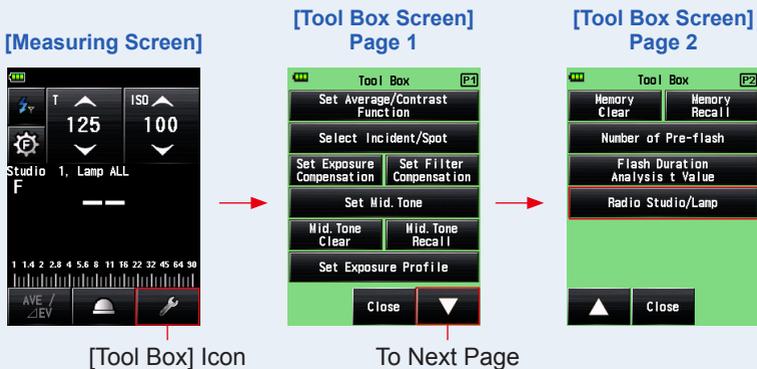
* When the Multiple (Cumu.) Flash mode is selected, the displayed information are different from those shown above.

4

5. **Select "Studio" (Radio Studio Address) to use.**

Touch the arrows ⬆ **/** ⬇ **, or slide your finger over the screen to select the channel from 1 to 99.**

[Radio Studio/Lamp Screen]

Radio Studio Address →

[OK] Button   [Cancel] Button
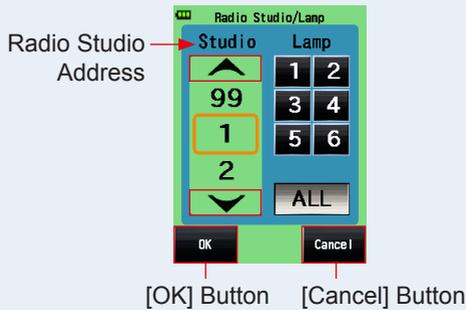
6. **Select the desired "Lamp" (Lamp Address).**

The background color of the selected [Lamp Address] Button is displayed in gray.

Select the desired Lamp by touching a [Lamp Address] Button (default setting: 1 to 6).

[Radio Studio/Lamp Screen]
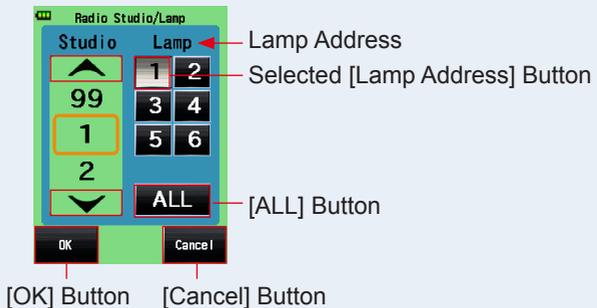
← Lamp Address

← Selected [Lamp Address] Button

← [ALL] Button

[OK] Button   [Cancel] Button

📝 **NOTE**

Depending on the broncolor products, the number of Studio (Radio Studio Address) or the description of Lamp (Lamp Address) could be different. Please check the setting of your receiver (flash).

7. **To change the Lamp Address to be displayed, touch the selected Lamp Address again.**

Set Lamp Address Screen is displayed and a hidden Lamp Address can be set.

Touch the keypad (0 to 9) and set the Lamp Address (1 to 40).

[Set Lamp Address Screen]

[Set Lamp Address Screen]

The selected Lamp Address is displayed

Keypad

The entered number is displayed

[OK] Button   [Cancel] Button

NOTE

Set Lamp Address Screen is not displayed even if touching [ALL] button twice.

---

8. **Touch [OK] Button.**

The setting is entered, and the display returns to the Radio Studio/Lamp Screen.

Touch the [Cancel] Button to return to the Radio Studio/Lamp Screen without making the modification.

[Radio Studio/Lamp Screen]

[Measuring Screen]

Setting Lamp Address

Radio Studio/Lamp Address

[OK] Button   [Cancel] Button

6
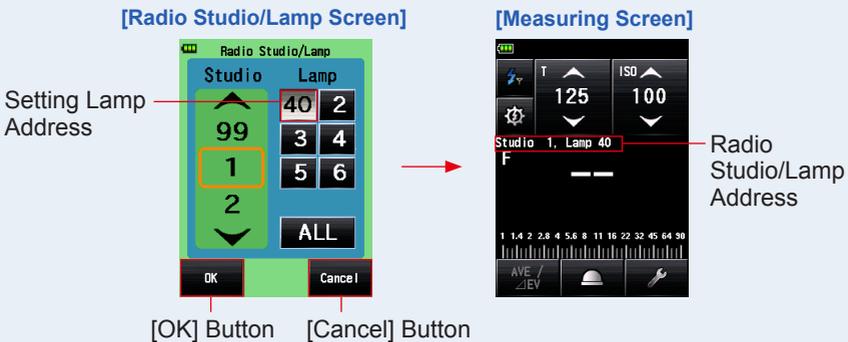
9. **Touch [OK] Button.**

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

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

NOTE

- The last selected Lamp Address in Radio Studio/Lamp Screen is activated in Measuring Screen.
- It is also possible to select a Lamp Address from the Flash Power Control Screen. (➡ P8)
- For touch/slide operations, refer to the Operating Manual of the light meter.
- For radio frequencies, refer to "5. Radio Studio Address Frequencies". (➡ P36)

2-2-2   Setting in Measuring Screen (Lamp Address Setting Only)

Operation

1. **Touch the [Flash Power Control] Icon (⚙) on the Measuring Screen.**

The Flash Power Control Screen is displayed.

[Measuring Screen]　　　　**[Flash Power Control Screen]**

[Flash Power Control] Icon

[Lamp Address] Button

[ALL] Button
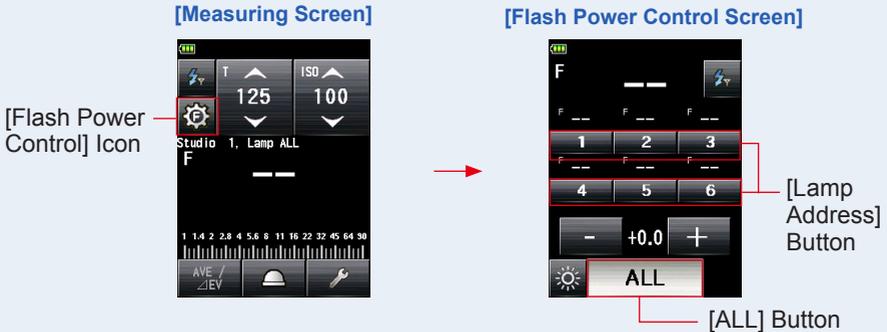
2. **Touch the Lamp Address Button.**

The background color of the selected [Lamp Address] Button is displayed in gray.

Select the desired Lamp Address by touching a [Lamp Address] Button (default setting: 1 to 6).

[Flash Power Control Screen]

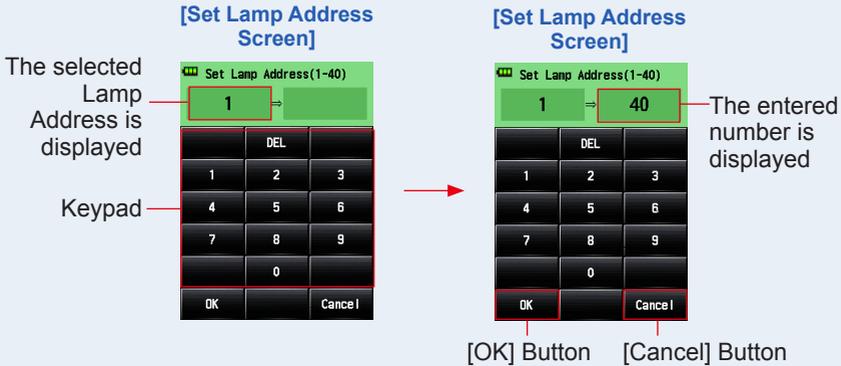Selected [Lamp Address] Button

✎ NOTE

Depending on the broncolor products, the number of Studio (Radio Studio Address) or the description of Lamp (Lamp Address) could be different. Please check the setting of your receiver (flash).

3. **To change the Lamp Address to be displayed, touch the selected Lamp Address again.**

Set Lamp Address Screen is displayed and a hidden Lamp Address can be set.

Touch the keypad (0 to 9) and set, Lamp Address (1 to 40).
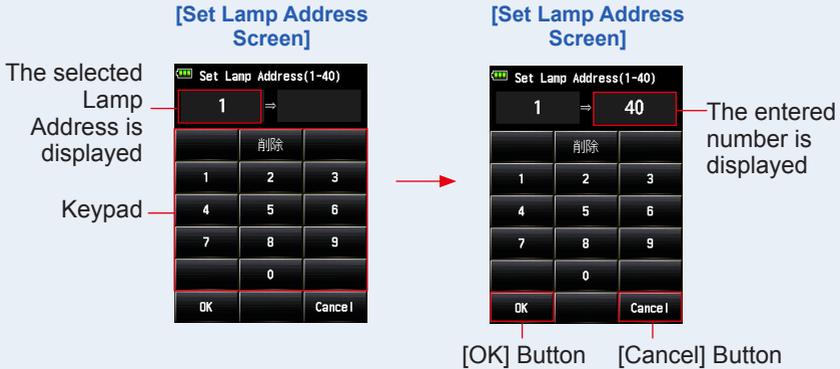
[Set Lamp Address Screen]　　　　　**[Set Lamp Address Screen]**

The selected Lamp Address is displayed

Keypad

The entered number is displayed

[OK] Button　　　[Cancel] Button

---

4. **Touch [OK] Button.**

The setting is entered, and the display returns to the Flash Power Control Screen.

Touch the [Cancel] Button to return to the Flash Power Control Setting Screen without making the modification.

5. **Touch the [Radio Triggering Flash Mode] Icon(⚡).**

The display returns to the Measuring Screen.
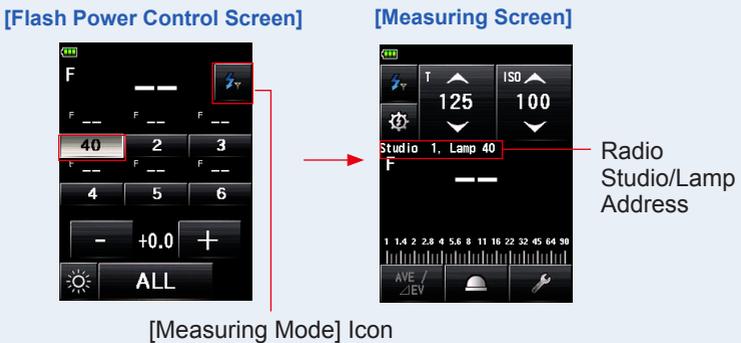
[Flash Power Control Screen]　　　　**[Measuring Screen]**

Radio Studio/Lamp Address

[Measuring Mode] Icon

NOTE

- The last selected Lamp Address in Radio Studio/Lamp Screen is activated in Measuring Screen.
- Studio Address can be set only in Radio Studio/Lamp Setting in Tool Box. (➡ P4)
- For touch/slide operations, refer to the Operating Manual of the light meter.
- For radio frequencies, refer to "5. Radio Studio Address Frequencies". (➡ P36)

2-3 | Measuring

Radio Triggering measurement is available in the following modes:
• Radio Triggering Flash Mode
• Radio Triggering Multiple (Cumulative) Flash Mode
• Flash Duration Analysis Radio Triggering Mode

2-3-1 | Radio Triggering Flash Mode

The meter detects flash brightness after Measuring Button is pressed to send radio transmitted signal to radio receiver connected to flash. F-stop value is 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 turn the modeling lamps ON/OFF.

Operation

1) **How to use Flash Triggering**

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

2. **Touch the [Radio Triggering Flash Mode] Icon (🔦) in Measuring Mode Screen.**
   When it is selected, the display changes to the Measuring Screen.

[Measuring Screen]　　**[Measuring Mode Screen]**　　**[Measuring Screen]**

[Measuring Mode] Icon

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3. **Set the light receiving method.**

Switch to the incident light, extended lumisphere (⌂)/retracted lumisphere (⌂), or reflected light.

4. **Set the ISO sensitivity value on the [ISO] Icon.**

5. **Set the shutter speed on the [T] Icon.**
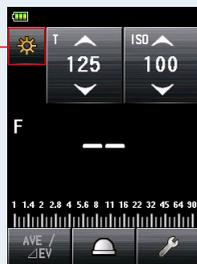
[Measuring Screen]

Setting Value

⚠ NOTICE

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

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6. **Make sure that the set Radio Studio Address is the same between the light meter and the receivers in use. (➡P4, P8)**

[Measuring Screen]

Radio Studio/Lamp Address

7. **Press the Measuring Button ⑥.**

> **The flash will fire and the measured value (F-stop) will be displayed.**
>
> All flashes in the same Studio Address will fire even if a particular Lamp Address is selected.

[Measuring Screen]

Measured Value
(F-stop)
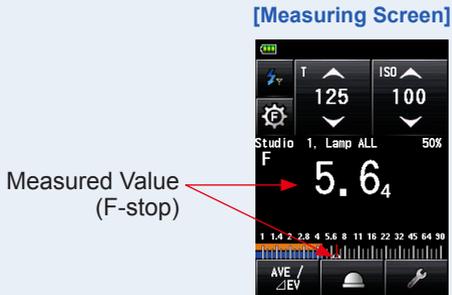
⚠ **NOTICE**

In case of the following, please follow "Cord Flash Mode" (⚡c).

● 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 does not fire, 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.

✏ **NOTE**

● With broncolor radio system, individual flash triggering is not available for each Lamp Address. All flashes in the same Studio Address will fire even if a particular Lamp Address is selected. For measuring the flash individually, turn off the power of flash units not in use. Or use the retracted lumisphere of L-858D to measure the light in front while all flashes fire.
● 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. Please refer to the L-858D Operating Manual.
● For radio frequencies, refer to "5. Radio Studio Address Frequencies".(➡ P36)

2) How to use Flash Power Control

1. Touch the [Flash Power Control] Icon (⚙) on the Measuring Screen.

The Flash Power Control Screen is displayed.

Take measurements by placing the meter at the subject's position with the light receptor (retracted lumisphere) facing toward the light sources of main light and fill light directly. Adjust the measured values for the desired lighting ratio. (➡Figure 1. of Piv)

2. Select the [Lamp Address] Button (default setting: 1 to 6) on the Flash Power Control Screen.
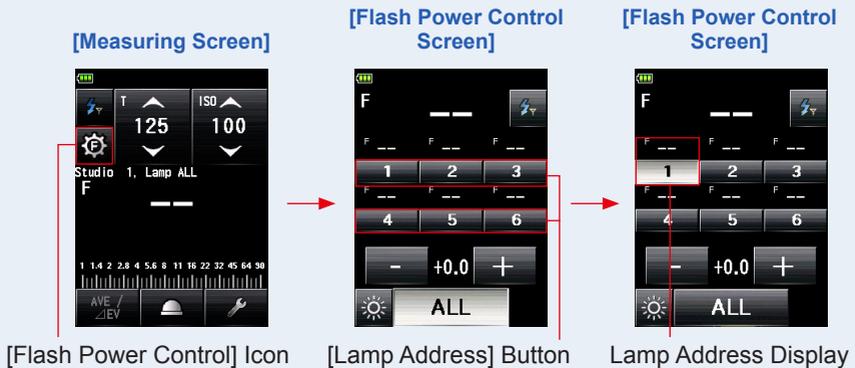
[Measuring Screen]   **[Flash Power Control Screen]**   **[Flash Power Control Screen]**

[Flash Power Control] Icon   [Lamp Address] Button   Lamp Address Display

---

📝 **NOTE**

To select the Lamp Address which is not displayed, go to Set Lamp Address Screen and set (1 to 40). (➡ P8)

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3. **Press the Measuring Button ⑥.**

Flashes in the same Studio Address will fire, and the measured value (F-stop) will be displayed.

The measured value is displayed in the main display and the Lamp Address display over the selected Lamp Address in the Flash Power Control Screen.

[Flash Power Control Screen]

Main Display

Lamp Address Display

Measured Value (F-stop)

4. **Touch [+]** ➕ **or [-]** ➖ **Button.**

Touching the [+] or [-] Button will increase or decrease the power of the flash in 0.1 step for the selected Lamp Address. When holding the button longer (1 second), the power will be adjusted in 1 (full) step.

The adjusted value will be displayed in the Adjusted Value area.

[Flash Power Control Screen]

Adjusted Value

[-] Button

[+] Button

⚠ **NOTICE**

● The first flash triggered by light meter is the output power set in the flash units.
● Although up to +/-9.9 steps can be set, the adjustment must be within the upper and lower limit of the power level specification of the flash unit.
● The adjusted value will be reset to "0" when a new measurement is made, another Lamp Address is selected, or the power is turned ON/OFF.

5. Press the Measuring Button ⑥ again.

The measured value (F-stop) will be displayed. Check that the output power of the flash is the desired value.

6. Repeat Steps 2 to 5.

Repeat the procedure for other Lamp Addresses until each flash unit's brightness is set to proper value for the effect you want.

[Flash Power Control Screen]   [Flash Power Control Screen]   [Flash Power Control Screen]

7. Touch [ALL] Button, then press the Measuring Button ⑥.

Point the meter (lumisphere) at the camera from the position of subject to make a measurement.

All flash units in the same Studio Address will fire, and the total exposure (F-stop) will be displayed in the main display. (➡Figure 2. of Piv)

[Flash Power Control Screen]   [Flash Power Control Screen]

Main Display (Measurement with Retracted Lumisphere)

Switch from Retracted Lumisphere to Extended One

Main Display (Measurement with Extended Lumisphere)

[ALL] Button   [ALL] Button

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8. **With [ALL] Button selected, touch [+]** [**+**] **or [-]** [**-**] **Button.**
Press the Measuring Button ⑥ **again.**

You can adjust the total power level while the lighting ratio of each Lamp Address is being fixed.

[Flash Power Control Screen]　　　[Flash Power Control Screen]

Main Display

Adjusted Value

[-] Button　　　　　　　　　　　　[+] Button

[ALL] Button
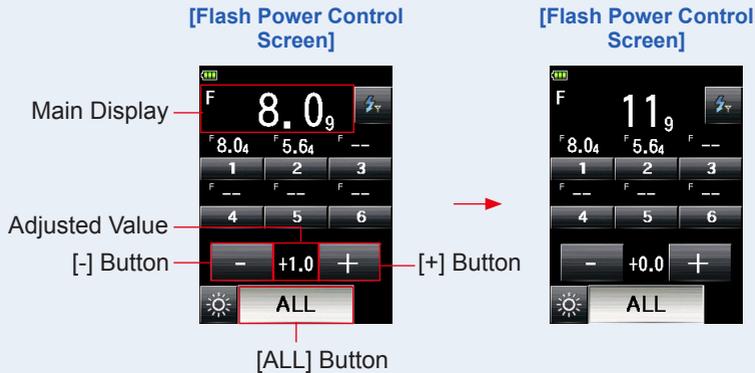
NOTICE

- Use the measurement with retracted lumisphere to see the lighting ratio of each lamp address, and use the extended lumisphere for final exposure.
- The measurements between extended lumisphere and retracted lumisphere are different due to light distribution characteristic. When the lumisphere is switched between extended and retracted status, the measurement on the main display is cleared. However, on the flash power control screen, the measurements of each lamp address remain.
- When the lumisphere is switched between extended and retracted status on any screen except the flash power control screen, the measurements of each lamp address are all cleared. Please extend/retract the lumisphere on the flash power control screen.

NOTE

- With broncolor radio system, individual flash triggering is not available for each Lamp Address. All flashes in the same Studio Address will fire even if a particular Lamp Address is selected. For measuring the flash individually, turn off the power of flash units not in use. Or use the retracted lumisphere of L-858D to measure the light in front while all flashes fire.
- To set ISO sensitivity and shutter speed, press the [Radio Triggering Flash Mode] Icon (🔆) to return to the Measuring Screen.
- The last selected Lamp Address in either Flash Power Control Screen or Radio Studio/Lamp Screen in Tool Box is activated in Measuring Screen.

3) How to use Modeling Lamp ON/OFF

1. **Touch the [Modeling Lamp ON/OFF] Icon (☀) on the Flash Power Control Screen.**

The modeling lamp of all flashes in the same Studio Address lights up.

[Flash Power Control Screen] **[Flash Power Control Screen]**

[Modeling Lamp ON/OFF] Icon   Modeling Lamp [ON] Status
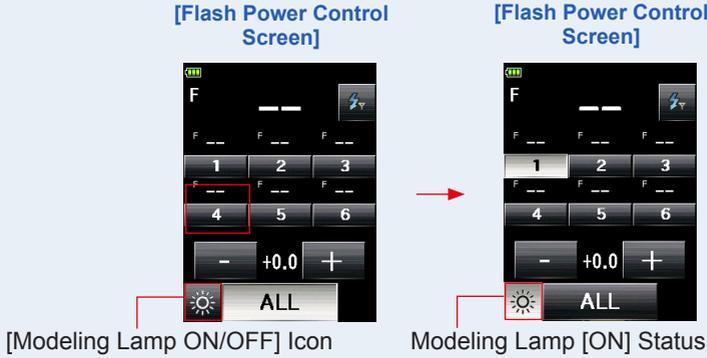
NOTE

- The modeling lamp of all flashes in the same Studio Address will be ON/OFF even if a particular Lamp Address is selected.
- To set ISO sensitivity and shutter speed, press the [Radio Triggering Flash Mode] Icon (🔦) to return to the Measuring Screen.
- The last selected Lamp Address in either Flash Power Control Screen or Radio Studio/ Lamp Screen in Tool Box is activated in Measuring Screen.

2-3-2   Radio Triggering Multiple (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 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.).
In the Flash Power Control Screen the Multiple (cumulative) flash measurement is not available (only single measurement is made).

Operation

1) How to use Flash Triggering

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

The Measuring Mode Screen is displayed.

2. **Touch the [Radio Triggering Multi Flash Mode] Icon (🔺MLT) in Measuring Mode Screen.**

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

[Measuring Screen]   [Measuring Mode Screen]   [Measuring Screen]

[Measuring Mode] Icon

3. **Set the light receiving method.**

Switch to the incident light, extended lumisphere (⌒)/retracted lumisphere (⌒), or reflected light.

4. **Set the ISO sensitivity value on the [ISO] Icon.**

5. **Set the shutter speed on the [T] Icon.**

[Measuring Screen]

Setting Value

6. **Make sure that the set Radio Studio Address is the same between the light meter and the receivers in use. (➡P4, P8)**

[Measuring Screen]

Radio Studio/Lamp Address

7. **Press the Measuring Button ❻.**

The measured value (F-stop) will be displayed. Press the Measuring Button ❻ again to fire all flashes in the same Studio Address and measure until the desired F-stop is displayed.

The accumulated measured value (F-stop) and the cumulative count will be displayed.

If you want to adjust the output power of each flash separately, go to Flash Power Control Screen to make a measurement and adjustment.

In the Flash Power Control Screen, the Multi (cumulative) flash measurement is not available. (➡ P14)
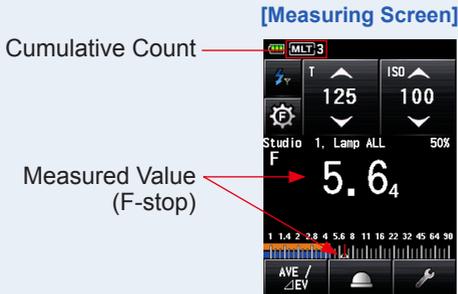
[Measuring Screen]

Cumulative Count ——————

Measured Value (F-stop) ——————

⚠ NOTICE

- In case of the following, please follow "Cord Multi (Cumu.) Flash Mode" (🔳 MLT).
  - 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 does not fire, 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.
- The EV scale cannot be displayed in the Radio Triggering Multi (Cumu.) Flash mode.

✏ NOTE

- With broncolor radio system, individual flash triggering is not available for each Lamp Address. All flashes in the same Studio Address will fire even if a particular Lamp Address is selected. For measuring the flash individually, turn off the power of flash units not in use. Or use the retracted lumisphere of L-858D to measure the light in front while all flashes fire.
- 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. Please refer to the L-858D Operating Manual.
- For radio frequencies, refer to "5. Radio Studio Address Frequencies". (➡ P36)

2) Multi Clear

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 clear the value, touch the [Close] Button.

The display returns to the Measuring Screen.

[Measuring Screen] **[Tool Box Screen] Page 1** **[Tool Box Screen] Page 2**

Cumulative Count   [Tool Box] Icon   To Next Page   [Close] Button

[Measuring Screen] **[Cumulative Count]**

Cumulative Count
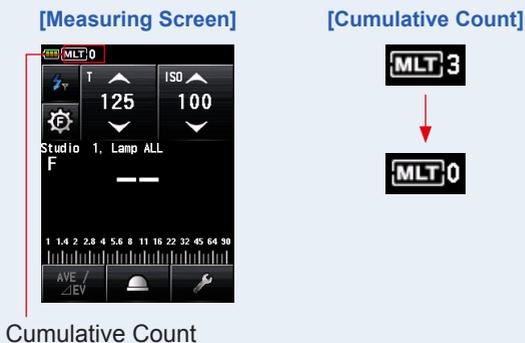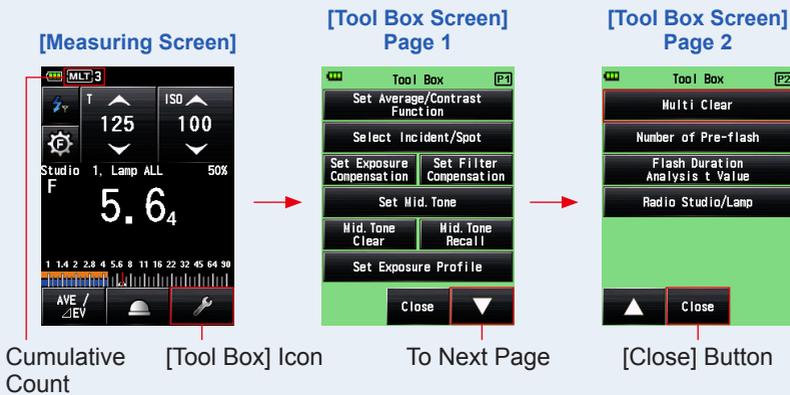
2-3-3   Flash Duration Analysis Radio Triggering Mode

The meter detects flash brightness after Measuring Button 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. Flash Duration Analysis is performed with Incident Light Measuring Mode.

Operation

1) How to use Flash Triggering

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

2. Touch the [Flash Duration Analysis Radio Triggering Mode] Icon (🔦FDA) in Measuring Mode Screen.
   When it is selected, the display changes to the Measuring Screen.

   The Flash Duration Analysis Radio Triggering Mode can be selected only when the incident light is set in the meter.

[Measuring Screen]   **[Measuring Mode Screen]**   **[Measuring Screen]**

[Measuring Mode] Icon

3. Set the light receiving method.
   Switch to the extended lumisphere (⌂) or retracted lumisphere (▱).

4. **Set the ISO sensitivity value on the [ISO] Icon.**

5. **Set the shutter speed on the [T] Icon.**

Setting Value

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

6. **Set the Flash Duration Analysis t value. (➡ P31)**

7. **Make sure that the set Radio Studio Address and Lamp Address are the same between the light meter and the receivers in use. (➡P4, P8)**

[Measuring Screen]

Radio Studio/Lamp Address

8. Press the Measuring Button ⑥.

The flash will fire, and the flash duration time and the measured value (F-stop) for input ISO sensitivity and shutter speed will be displayed.

[Measuring Screen]

Flash Duration Time

Measured Value (F-stop)

⚠ **NOTICE**

- The flash duration time and graph are displayed in the Flash Duration Analysis Radio Triggering 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 Radio Triggering mode.
- In case of the followings, please follow "Flash Duration Analysis Cord Mode"(⚡c FDA).
  - 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 does not fire, 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.
- 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]

- 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. Please refer to the L-858D Operating Manual.
- 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]

[Flash Duration Analysis Mode Flash Waveform Graph Screen]

Touching the Measured value area changes the display.

* The graph screen cannot be used to make measurements.

- Measure the flash light characteristics in a darkroom without ambient light.
- For radio frequencies, refer to "5. Radio Studio Address Frequencies". (➡ P36)

2) How to use Flash Power Control

1. Set the Flash Duration Analysis t value. (➡ P31)

2. Make sure that the set Radio Studio Address and Lamp Address are the same between the light meter and the receivers in use. (➡ P4, P8)

3. Touch the [Flash Power Control] Icon (⚙) on the Measuring Screen.

   The Flash Power Control Screen is displayed.

4. Select a [Lamp Address] Button (default setting: 1 to 6) on the Flash Power Control Screen.

[Measuring Screen]   [Flash Power Control Screen]   [Flash Power Control Screen]

[Flash Power Control] Icon   [Lamp Address] Button   Lamp Address Display

NOTE

To select the Lamp Address which is not displayed, go to Set Lamp Address Screen and set (1 to 40). (➡ P8)

5. **Press the Measuring Button ⑥.**

The flashes in the same Studio Address will fire, and the measured value (F-stop) will be displayed.

The measured value (F-stop) is displayed in the main display and the Lamp Address display over the selected Lamp Address in the Flash Power Control Screen.

[Flash Power Control Screen]

Main Display

Lamp Address Display

Measured Value (F-stop)

6. **Touch [+] ➕ or [-] ➖ Button.**

Touching the [+] or [-] Button will increase or decrease the power of the flash in 0.1 step for the selected Lamp Address. When holding the button longer (1 second), the power will be adjusted in 1 (full) step.

The adjusted value will be displayed in the Adjusted Value area.

[Flash Power Control Screen]

Adjusted Value

[-] Button

[+] Button

NOTICE

- The first flash triggered by light meter is the output power set in the flash units.
- Although up to +/-9.9 steps can be set, the adjustment must be within the upper and lower limit of the power level specification of the flash unit.
- The adjusted value will be reset to "0" when a new measurement is made, another Lamp Address is selected, or the power is turned ON/OFF.

7. **Press the Measuring Button ⑥ again.**

Check that the output power of the flash is the desired value.

[Flash Power Control Screen]

Main Display

Lamp Address Display

Measured Value (F-stop)

[-] Button

[+] Button

8. **Press the [Flash Duration Analysis Radio Triggering Mode] Icon (🔲).**

The display returns to the Measuring Screen, and the flash duration time and the measured value (F-stop) for input ISO sensitivity and shutter speed will be displayed.

[Flash Power Control Screen (After Measurement)]

[Measuring Screen]

[Flash Duration Analysis Mode Flash Waveform Graph Screen]

⚠ **NOTICE**

- The measurements between extended lumisphere and retracted lumisphere are different due to light distribution characteristic. When the lumisphere is switched between extended and retracted status, the measurement on the main display is cleared. However, on the flash power control screen, the measurements of each lamp address remain.

- When the lumisphere is switched between extended and retracted status on any screen except the flash power control screen, the measurements of each lamp address are all cleared. Please extend/retract the lumisphere on the flash power control screen.

NOTE

- With broncolor radio system, individual flash triggering is not available for each Lamp Address. All flashes in the same Studio Address will fire even if a particular Lamp Address is selected. For measuring the flash individually, turn off the power of flash units not in use.
- 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]

[Flash Duration Analysis Mode Flash Waveform Graph Screen]

Touching the Measured value area changes the display.

* The graph screen cannot be used to make measurements.

- Measure the flash light characteristics in a darkroom without ambient light.
- To set ISO sensitivity and shutter speed, press the [Flash Duration Analysis Radio Triggering Mode] Icon ( ) to return to the Measuring Screen.
- The last selected Lamp Address in either Flash Power Control Screen or Radio Studio/Lamp Screen is activated in Measuring Screen.
- For radio frequencies, refer to "5. Radio Studio Address Frequencies". (➡ P36)

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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.

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 the [Flash Duration Analysis t Value] Button.

   This button is enabled if Flash Duration Analysis Mode is selected. If it is 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.

[Measuring Screen]   [Tool Box Screen] Page 1   [Tool Box Screen] Page 2

[Tool Box] Icon   To Next Page   [Close] Button

4. **Enter 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. Enter the first digit decimal only. (To set "0.1", enter "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 entered, and the display returns to the Measuring Screen.

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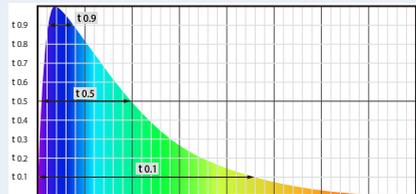
[Measuring Screen]

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".
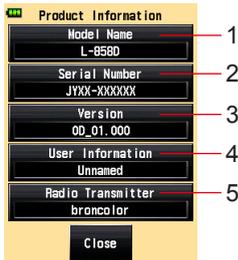
Generally, "t0.5" is called the flash duration time.

3. Product Information

This screen displays the detailed information not displayed in the Measuring Screen.

[Product Information Screen]

No.	Item	Description
1	**Model Name**	Displays the model number of the meter.
2	**Serial Number**	Displays the serial number of the meter.
3	**Version**	Displays the firmware version.
4	**User Information**	Displays user-input information such as ownership or meter function, etc which is set in the Hardware Setting.
5	**Radio Transmitter**	Displays the type of radio system.

* The screen contents above differ depending on models.

Operation

1. Touch the Menu Button **9** on the meter.
The Menu Screen is displayed.

2. Touch the [Next Page] Icon (▼) to display page 2 of the Menu Screen, and touch the [Product Information] Button.

The Product Information Screen is displayed.

[Menu Screen] Page 2   **[Product Information Screen]**   **[Menu Screen] Page 2**

[Close] Button   [Close] Button

3. **Touch the [Close] Button.**
    The display return to the Menu Screen.

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

4. Regulation

The Regulation screen displays the symbols, approved number, regulation names, etc. which the meter is compliance with.
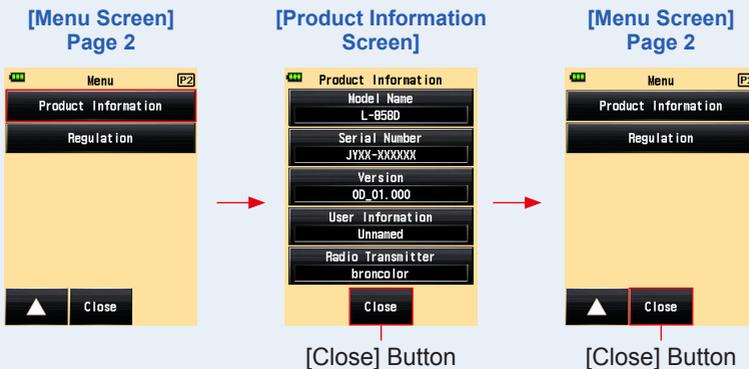
Operation

1. **Touch the Menu Button ⑨ on the meter.**

   The Menu Screen is displayed.

2. **Touch the [Next Page] Icon (▼) to display page 2 of the Menu Screen, and touch the [Regulation] Button.**

   The Regulation Screen is displayed.

[Menu Screen]
Page 2

[Regulation Screen]

[Menu Screen]
Page 2

[Close] Button
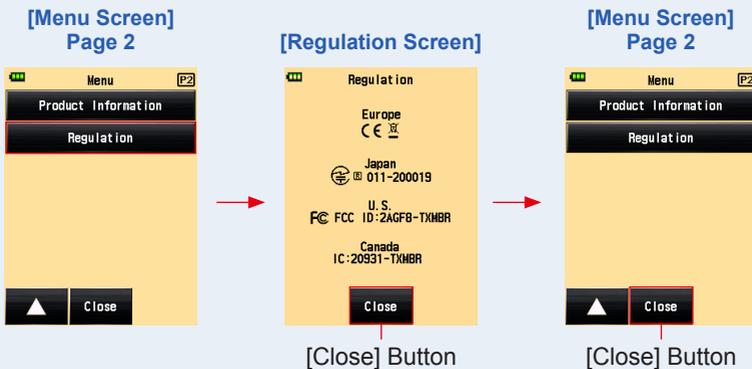
[Close] Button

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

3. **Touch the [Close] Button.**

   The display return to the Menu Screen.

4. **Touch the [Close] Button.**

   The display returns to the Measuring Screen.

5. Radio Studio Address Frequencies

Radio Studio Address frequencies (1 to 99)

Address	Freq. (MHz)	Address	Freq. (MHz)	Address	Freq. (MHz)	Address	Freq. (MHz)	Address	Freq. (MHz)
1	2403	26	2413	51	2407	76	2417		
2	2419	27	2429	52	2423	77	2433		
3	2435	28	2445	53	2439	78	2449		
4	2451	29	2461	54	2455	79	2465		
5	2467	30	2477	55	2471	80	2481		
6	2405	31	2415	56	2409	81	2403		
7	2421	32	2431	57	2425	82	2419		
8	2437	33	2447	58	2441	83	2435		
9	2453	34	2463	59	2457	84	2451		
10	2469	35	2479	60	2473	85	2467		
11	2407	36	2417	61	2411	86	2405		
12	2423	37	2433	62	2427	87	2421		
13	2439	38	2449	63	2443	88	2437		
14	2455	39	2465	64	2459	89	2453		
15	2471	40	2481	65	2475	90	2469		
16	2409	41	2403	66	2413	91	2407		
17	2425	42	2419	67	2429	92	2423		
18	2441	43	2435	68	2445	93	2439		
19	2457	44	2451	69	2461	94	2455		
20	2473	45	2467	70	2477	95	2471		
21	2411	46	2405	71	2415	96	2409		
22	2427	47	2421	72	2431	97	2425		
23	2443	48	2437	73	2447	98	2441		
24	2459	49	2453	74	2463	99	2457		
25	2475	50	2469	75	2479				

NOTICE

The working distance of the radio triggering system can vary with the orientation and location of the meter and receivers, or the frequency (Radio Studio Address). The maximum radio triggering range is approximately 30 meters. If the distance is short, changing the Radio Studio Address (frequency) may improve the distance.

6. Specifications

Radio Studio Address Setting Range

● 1 to 99

Radio Lamp Address Setting Range

● 1 to 40, ALL

Radio Triggering Range

● 30 meter (100 feet)

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)
● Ambient humidity 85% RH or less (at 35°C)

Dimensions

● Approx. 34 (W) mm × 28 (H) mm × 12 (D) mm

Weight

● Approx. 9g

Standard Accessories

● Startup Guide, Safety Precaution

> **NOTICE**
>
> **The working distance of the radio triggering system can vary with the orientation and location of the meter and receivers, or the frequency (Radio Studio Address). The maximum radio triggering range is approximately 30 meters. If the distance is short, changing the Radio Studio Address (frequency) may improve the distance.**

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

7. Legal Requirements

This product complies with the following legal requirements.

Destination	Standard		Details
Europe	CE $C \in$	Wireless	EN 300 440 EN 62479
North America	FCC (US) FC	Wireless	FCC Part15 SubpartC
	IC (Canada)	Wireless	RSS-247
Japan	Radio Act		Certification of construction type prescribed in Article 38-24, paragraph (1) of the Radio Act

FCC & IC compliance information:

Compliance statement to FCC and Industry Canada

FCC ID: 2AGF8-TXMBR

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. The user is cautioned that unauthorized changes or modifications not approved could void the user's authority to operate the equipment.

IC: 20931-TXMBR

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 present appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisee aux deux conditions suivantes :
(1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioelectrique subi, meme si le brouillage est susceptible d'en compromettre le fonctionnement.

8. 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
Flash cannot be triggered in Radio Triggering Flash Mode.	Is the radio receiver in the flash compatible with the meter's transmitter? Isn't any other non-compatible brand or manufacturer used?	Make sure that the transmitter installed to the meter and the receiver currently used are using the same radio system. ● broncolor website URL: https://www.broncolor.swiss
	Are the meter transmitter and receiver set for the same Studio Address?	Set the same Studio Address on the transmitter and receiver.
"Radio transmitter installed cannot be used in this meter." is displayed.	Is the meter updated to the latest firmware?	Update the meter to the latest firmware by connecting with Data Transfer Software which is downloadable from our website below. URL: https://www.sekonic.com/support/downloads/dtssoftwareformacandwindows.aspx

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9. 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.