SEKONIC

Light Meter

Operating Manual
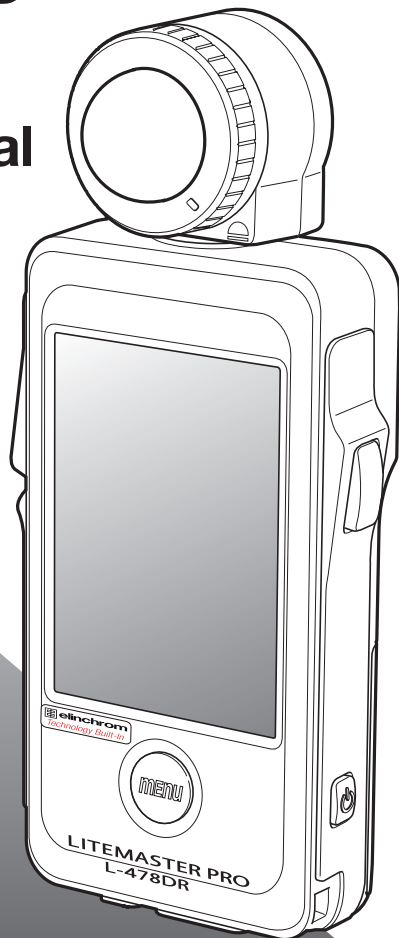
LITEMASTER PRO

L-478DR-EL
L-478DR-A-EL
L-478DR-U-EL

田 elinchrom®

This manual is specific for Elinchrom® operation.
Please read the operating manual and safety precaution carefully to fully understand the features of this product before use and keep it for future use.
Keep the operating manual in a safe place.

■ Table of Contents

Elinchrom is the registered trademark of Elinchrom SA.

1 | About EL-Skyport System by Elinchrom

1-1. How to use L-478DR-EL Series with EL-Skyport System by Elinchrom

Plug-in external or built-in EL-Skyport receivers are required to work with the EL-Skyport radio system by Elinchrom. Radio triggering enables a single photographer to easily trigger and control flash units.

The radio transmitter built into the L-478DR-EL Series is only compatible with EL-Skyport radio system by Elinchrom. Please read the instruction manuals provided with these products for details about using them. Please go to http://www.elinchrom.com/ to learn more about their products and compatibilities.

> **(!) Note**
>
> • Successful radio triggering depends on several factors. Please read these setup steps before using the L-478DR-EL Series 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. Operation is the best when the meter to receiver distance is within 30 meters. The working distance of the radio triggering system can vary with the orientation and location of the meter and receivers.
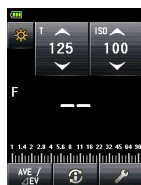
1-2. Turning the Power ON

Press and hold the Power button for about 1 second to start up the meter. The startup screen will be displayed, followed by the Measuring screen.

Startup screen for L-478DR-EL Series (Elinchrom)   Measuring screen

Power button

1-3. Setting EL-Skyport Mode

Set Normal mode or Speed mode on both the Skyport transmitter and receiver according to shutter speed in use for desired effect.

1) Press the Menu button on the meter to open the Menu screen.

2) Touch **[3. Custom Setting]** and select **[c-i) EL-Skyport Mode]** under **[6.Flash Mode]** in the displayed Menu screen.

Menu button

3) Touch the radio button to select Normal or Speed mode.

Menu screen   Custom Setting screen   EL-Skyport Mode screen
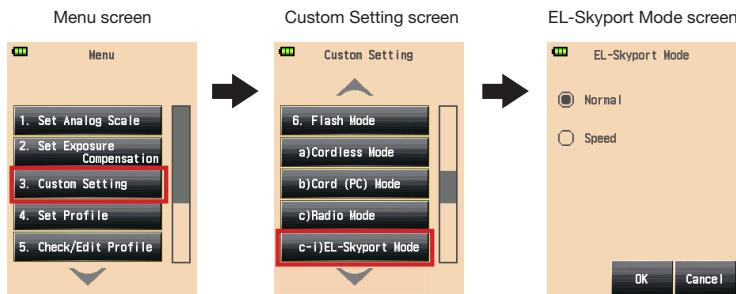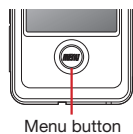
4) Touch **[OK]** to complete the setting and return to the Custom Setting screen. (Touch **[Cancel]** to return to the Custom Setting screen without change.)

5) Press the Menu button at the Custom Setting screen to return to the top of Menu screen. Press the Menu button again to return to the Measuring screen.

6) In the Radio Flash mode, the Measuring screen shows the setting of Normal mode or Speed mode.

Measuring screen
(Radio Triggering screen)

Normal   EL-Skyport Normal Mode
Speed   EL-Skyport Speed Mode

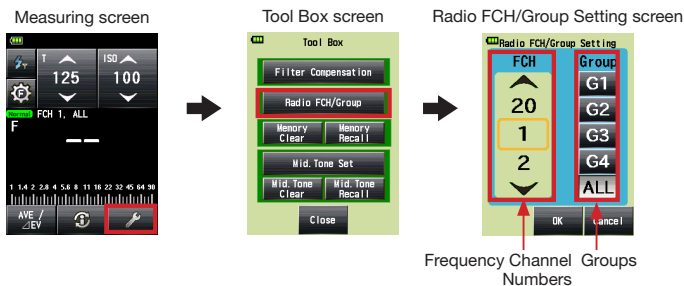EL-Skyport Mode

---
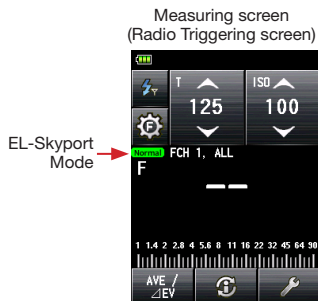
(!) **Note**

● Set both the meter and plug-in external or built-in EL-Skyport receivers to the same EL-Skyport mode (Normal or Speed).

2 Measuring

2-1. Selecting the Frequency Channel and Group

Select the FCH (frequency channel) both the meter and plug-in external or built-in EL-Skyport receivers to the same channel number to use.

1) Touch the Tool Box icon (🔧) at the bottom right of the Measuring screen to display the Tool Box screen.

2) Touch the **[Radio FCH/Group]** button to display the Radio FCH/Group Setting screen.

3) Touch the arrows ▲/▼ or slide your finger over the screen to select a FCH (frequency channel) from 1 to 20.

4) Touch one of the Group buttons (G1, G2, G3 or G4) or ALL button to select the flash Group you want to use.
   * Group to use can be selected from Power Control screen as well.

5) Touch **[OK]** to confirm settings and return to the Measuring screen. (Touch **[Cancel]** to go back to the Measuring screen without change.)

Measuring screen   Tool Box screen   Radio FCH/Group Setting screen

Frequency Channel Groups
Numbers

⚠ (Note)
- Set both the meter and plug-in external or built-in EL-Skyport receivers to the same FCH (frequency channel) and Group(s) to use.
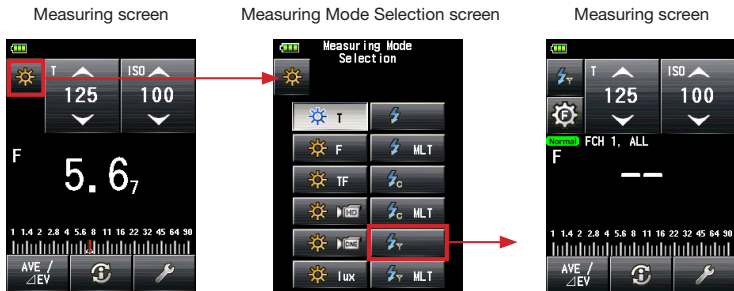
[Reference]
- EL-Skyport system enables selecting only one button for Group selection, which means either G1, G2, G3, G4 or ALL button can be selected.
- The last selected Group in either Flash Power Control screen or Radio FCH/Group Setting screen in Tool Box is activated in Measuring screen.
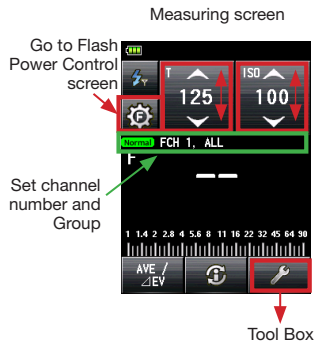
2-2. Measuring in Radio Flash Mode

2-2-1. How to use Radio Triggering

1) Touch the Measuring mode icon (⚙) at the top left of the Measuring screen and then select the Radio Flash Mode (🔆).

Measuring screen   Measuring Mode Selection screen   Measuring screen

2) Set ISO sensitivity on the ISO icon.

Measuring screen

3) Set shutter speed on the T (shutter speed) icon.

Go to Flash Power Control screen

4) Make sure that the channel and Group are the same for the meter and receivers in use.
   * Select the Group to trigger from the Flash Power Control screen (See below) or Tool Box. Then return to the Measuring screen to take the flash measurement.

Set channel number and Group

5) Press the Measuring button to trigger the flash units. The measured value (f-stop) is displayed.

Tool Box

Measuring screen (After Measurement)

⚠ Note

- When firing the flash, if the flash brightness is 8EV lower than the ambient light, the meter may fail to detect the flash light. In this case, make measurements using the Cord (PC) Flash Mode (See L-478 Series Common Operating Manual for details).
- Rapid start fluorescent lamps and special lighting are sometimes mistaken for flash, and accidentally measured. In this case, make measurements using the Cord (PC) Flash Mode (See L-478 Series Common Operating Manual for details)
- The waveform of a flash bulb has a slight slope and there is a possibility that the light meter cannot recognize the flashbulb in Cordless Flash Mode. In this case, make measurements using the Cord (PC) Flash Mode (See L-478 Series Common Operating Manual for details).

6

2-2-2. How to use Flash Power Control

1) Touch the Measuring mode icon at the top left of the Measuring screen and then select the Radio Flash Mode (⚡).

2) Touch the Flash Power Control icon (⚙) on the Measuring screen to display the Flash Power Control screen.

3) Select one of Groups (G1 to G4) **3** and press the Measuring button to trigger the flash units for selected Group.

4) The measured value is displayed at the top of the screen **1** and over the selected Group button **2**. Press **[+]** or **[-]** button **4** to change the power of flash. Set power level is displayed in the area of **5** .

   * Up to +/-9.9 step of value (f stop) can be controlled.

   * Set power level returns to 0 (zero) when taking a new measurement, selecting another Group or turning the power off/on.

5) Press the Measuring button for measurement to confirm that the flash power is set to desired value.

6) Repeat 3) to 5) above for other Groups **3** until each flash unit's brightness is set to proper value for the effect you want.

7) Select **[ALL]** button and press the Measuring button. Measured values of each Group **2** will not change. The measured F number for the measured brightness of all lights will be displayed at the top of the screen **1** .

8) Press **[+]** or **[-]** button **4** to change the total power of flash units while each Group lighting ratio is kept.

   * Press Modeling Lamp ON/OFF icon (💡) if necessary after selecting the desired Group.

   * To set ISO sensitivity and shutter speed, press the Radio Flash Mode icon (⚡) to go back to the Measuring screen.
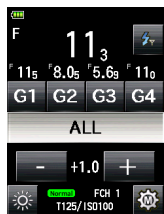
Measuring screen

Flash Power Control screen

Settings
(EL-Skyport mode, FCH, shutter speed and ISO sensitivity)

Flash Power Control screen (After Measurement)

2-2-3. How to use Modeling Lamp Power Control

1) Press the Modeling Lamp icon (⚙) at the bottom right of the Flash Power Control screen.

2) Select one of Groups (G1 to G4) **3** and press the Modeling Lamp ON/OFF icon (☀) to turn ON the lamp of the selected Group.

3) Press the Measuring button to measure the brightness of the light(s) in the selected Group.

4) The measured value is displayed at the top of the screen **1** and over the selected Group button **2**. Press **[+]** or **[-]** button **4** to change the power of modeling lamp. Set power level is displayed in the area of **5**.
   * Up to +/-9.9 step of value (f stop) can be controlled.
   * Set power level returns to 0 (zero) when taking a measurement, selecting another Group or turning power off/on.

5) Press the Measuring button again to check that the modeling lamp power is set to desired value.

6) Repeat 2) to 5) above for other Groups to check that each flash unit's modeling lamp brightness is set to proper value for the effect you want.

7) Select **[ALL]** button and press the Measuring button. Measured values of each Group **2** are fixed to keep the lighting ratio data. The measured F number **1** indicates the total exposure for all lights.

8) Press **[+]** or **[-]** button **4** to change the total power of modeling lamps while maintaining the established ratio.

   * Press Modeling Lamp ON/OFF icon (☀) if necessary after selecting the desired Group.
   * To set ISO sensitivity and shutter speed, press the Radio Flash Mode icon (⚡) to go back to the Measuring screen.
   * To go back to Flash Power Control screen, touch the Flash Power Control icon (⚙)
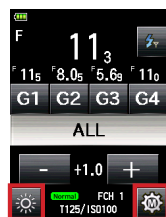
| Reference |
- Modeling Lamp Power Control mode is ambient light measurement.
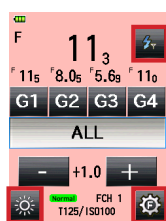
Flash Power Control screen

Modeling Lamp Power Control screen
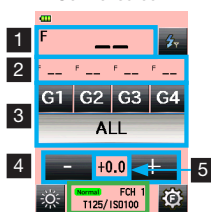
Settings
(EL-Skyport mode, FCH, shutter speed and ISO sensitivity)
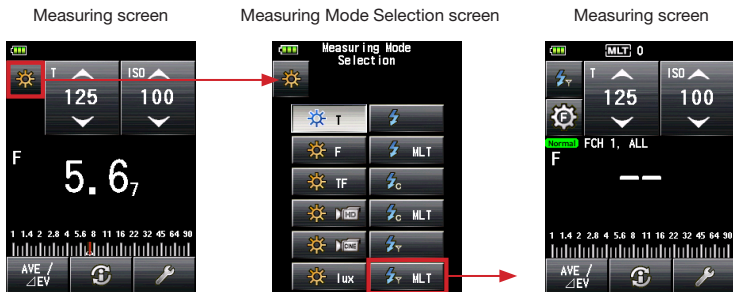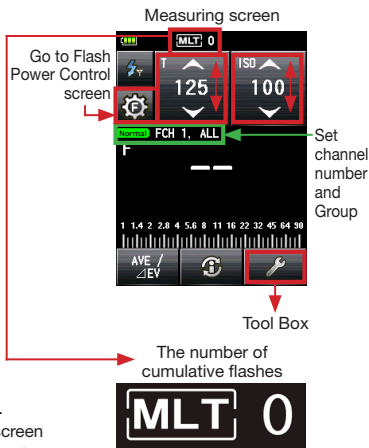
Modeling Lamp Power Control screen

2-3. Measuring in Radio Multiple (Cumulative) Flash Mode

1) Touch the Measuring mode icon (☼) at the top left of the Measuring screen and then select the Radio Multiple (Cumulative) Flash Mode (⚡ MLT).

Measuring screen   Measuring Mode Selection screen   Measuring screen

2) Set ISO sensitivity on the ISO icon.
3) Set shutter speed on the T (shutter speed) icon.
4) Make sure that the channel and Group are the same for the meter and receivers in use.
   * Select the Group to trigger from the Flash Power Control screen (See below) or Tool Box. Then return to the Measuring screen to take the flash measurement.
5) Press the Measuring button to trigger the flash units. The measured value (f-stop) is displayed.
6) Repeat 5) above until you get the accumulated measured value (f-stop) you want to use.
   The number of cumulative flashes is displayed at the top of screen.

   * It is not possible to take cumulative flash measurements while the meter displays the Flash Power Control screen. Be sure to set the meter to display the main Measuring screen when taking cumulative flash measurements. The measured value will be cleared when going from the Measuring screen to the Flash Power Control screen when in Radio Multi (Cumulative) Flash Mode.

Measuring screen

Go to Flash Power Control screen

Set channel number and Group

Tool Box

The number of cumulative flashes

MLT 0

Measuring screen
(After measurement)

Note

- When firing the flash, if the flash brightness is 8EV lower than the ambient light, the meter may fail to detect the flash light. In this case, make measurements using the Cord (PC) Flash Mode (See L-478 Series Common Operating Manual for details).
- Rapid start fluorescent lamps and special lighting are sometimes mistaken for flash, and accidentally measured. In this case, make measurements using the Cord (PC) Flash Mode (See L-478 Series Common Operating Manual for details)
- The waveform of a flash bulb has a slight slope and there is a possibility that the light meter cannot recognize the flashbulb in Cordless Flash Mode. In this case, make measurements using the Cord (PC) Flash Mode (See L-478 Series Common Operating Manual for details).

3 Functions

3-1. Custom Setting Function

This enables quick and easy setup of individual meter preference.
For other Custom Setting, please refer to the L-478 Series Common Operating Manual.
Custom Setting specific to L-478DR-EL Series for Elinchrom is as follows.

3-1-1. Custom Setting Function List

Setting No.	Custom Setting Name	Item			Default Setting
6	Flash Mode*1	On	Off	-	On
c)	Radio Mode*1,*2	On	Off	-	On
c - i)	EL-Skyport Mode *2	Normal	Speed	-	Normal

*1 When Flash Mode is set to "Off", the sub settings of all flash modes: a) Cordless
   Mode to d) Multiple (Cumu.) Flash Mode cannot be selected.
*2 When Radio Flash Mode is set to "Off", the sub setting of c-i) EL-Skyport Mode
   cannot be selected.

3-1-2. How to enter Custom Setting

1) Press the Menu button on the meter to open the Menu screen.
2) Touch **[3. Custom Setting]** and select **[c-i) EL-Skyport Mode]**
   under **[6. Flash Mode]** in the displayed Menu screen.
3) Touch the radio button to select Normal or Speed mode.
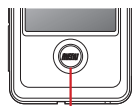
Menu button
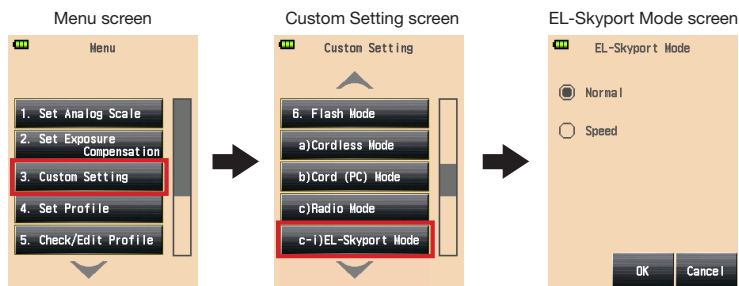
Menu screen   Custom Setting screen   EL-Skyport Mode screen

4) Touch **[OK]** to complete the setting and return to the Custom Setting screen. (Touch
   [Cancel] to return to the Custom Setting screen without change.)
5) Press the Menu button at the Custom Setting screen to return to the top of Menu
   screen. Press the Menu button again to return to the Measuring screen.

4 **Specifications**

Radio wave frequency: FCH 1 to 20

Trigger Channel	Frequency/MHz
1	2456
2	2458
3	2460
4	2462
5	2469
6	2471
7	2473
8	2475
9	2478
10	2449
11	2444
12	2439
13	2434
14	2429
15	2424
16	2419
17	2414
18	2410
19	2407
20	2404

Group: 1 to 4
EL-Skyport Mode: Normal mode or Speed mode
Radio triggering range: 30 meter (100 feet)

(!) **Note**
- The working distance of the radio triggering system can vary with the orientation and location of the meter and receivers.

5 Legal Requirements

■ **Legal Requirements**
This product complies with the following legal requirements.

Destination	Standard		Details
Europe	CE $C\,\epsilon$	SAFETY	EN 60950-1:2006 + A1:2010 + A2:2013
		EMC	EMS: EN55024:2010 EMI : EN55022:2010 　　: EN55032:2012/AC:2013
		Wireless	R&TTE Directive 1999/5/EC EN300 440-2 V1.4.1 (2010-08) EN301 489-1 V1.9.2 (2011-09) EN301 489-17 V2.2.1 (2012-09) EN62479:2010
		Environmental	WEEE, RoHS, REACH
North America	FCC (US)	EMC	FCC Part15 SubpartB ClassB
		Wireless	FCC Part15 SubpartC
	IC (Canada)	EMC	ICES-003
		Wireless	RSS-210 Issue8

FCC & IC compliance information

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

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

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

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

Model	FCC ID Number	IC Number	Note
L-478DR-EL	2AGF8-TXMEPA	20931-TXMEPA	The approval of this rule is obtained with radio transmitter module.