CH

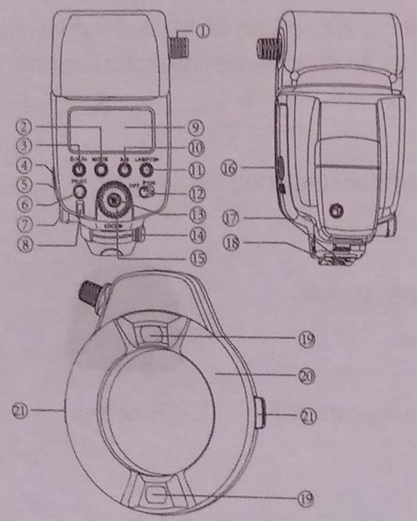
LED MACRO RING FLASH

MK-14EXT

EN

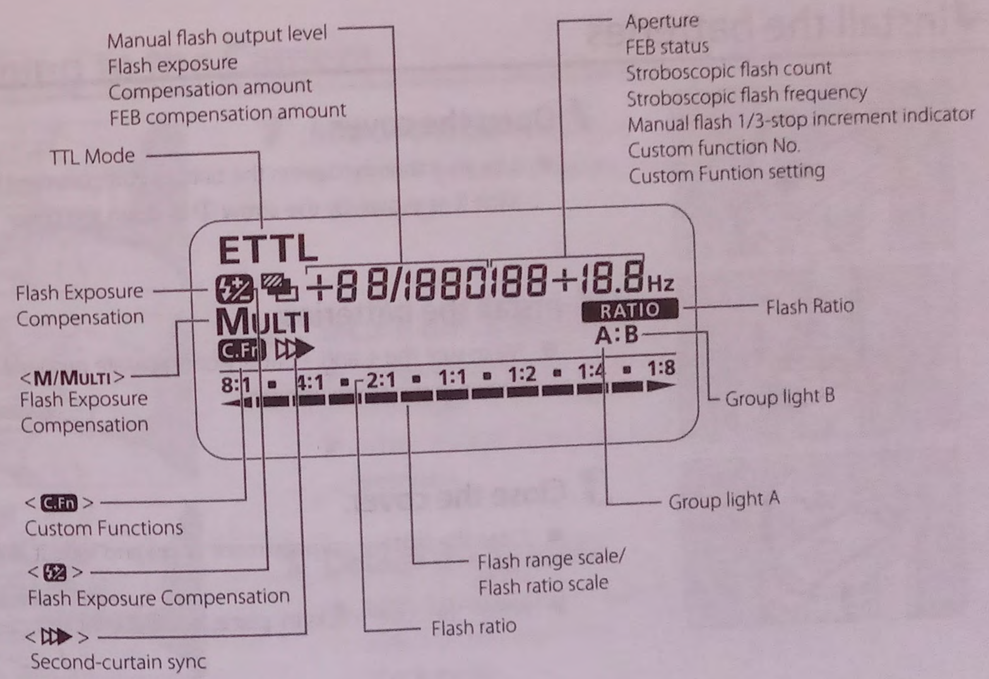
For Canon

3 Nomenclature

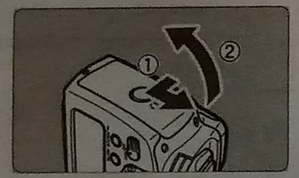


1. Connecting code
2. Mode button
3. Flash mode/ Custom Functions setting button
4. External power source socket
5. Bracket mounting hole
6. Pilot lamp/test firing button
7. PC terminal
8. Flash exposure confirmation lamp
9. LCD panel
10. Flash ratio button
11. AF Assist lamp/ Second-curtain sync
12. Power Switch
13. Set/ Select button
14. Mounting foot's lock lever
15. Dial
16. Battery lock
17. Locking pin
18. Contacts
19. AF Assist Lamp
20. Flash tube
21. Release button

* The symbol "◎" in this instruction manual means rotary dial.
The symbol "◉" in this instruction manual means select/set button.

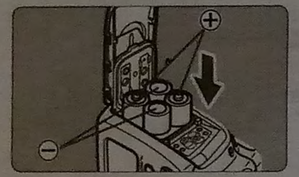


4 Install the batteries



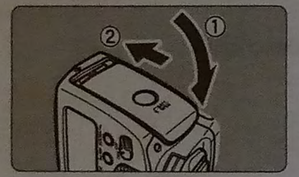
1 Open the cover.

- Use your thumb to press the battery compartment lock lever, then slide it as shown by the arrow ① to open the cover.



2 Install the batteries.

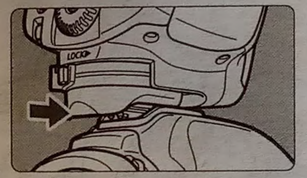
- Make sure the + and – battery contacts are properly oriented as shown in the compartment.



3 Close the cover.

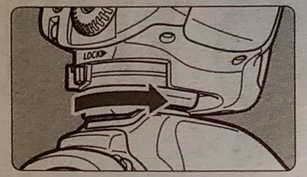
- Close the battery compartment cover and slide it as shown by the arrow.
- ▶ When the cover clicks in place, it will be locked.

5 Attaching to the Camera



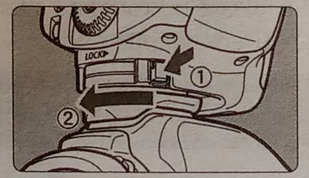
1 Attach the Speedlite.

- Slip the Speedlite's mounting foot into the camera's hot shoe all the way.



2 Secure the Speedlite.

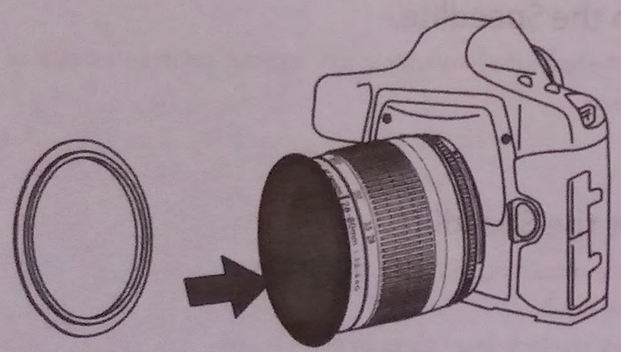
- On the mounting foot, slide the lock lever to the right.
- ▶ When the lock lever clicks in place, it will be locked.

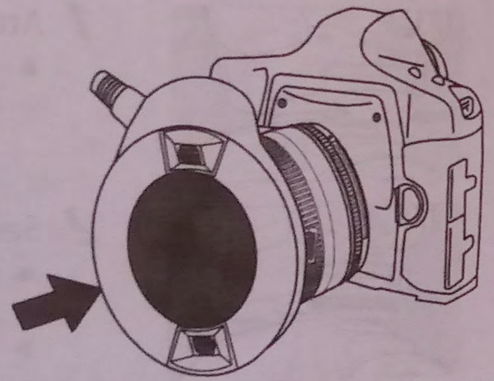


3 Detach the Speedlite.

- While pressing the lock-release button, slide the lock lever to the left and detach the Speedlite.

6 Attach and Installing the flash unit

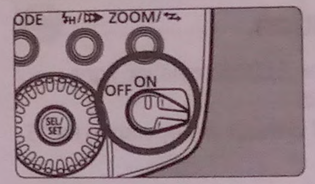


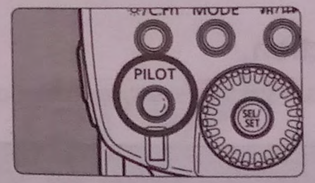


- Select the suitable lens adapter ring to connect on front of lens.
- Press the release buttons and attach the flash to lens adapter ring.

Make sure the lens adapter ring fix on the lens firmly, you need to rotate the flash unit accordingly under the usage. Keep pressing the release buttons on flash unit when rotating it, and then release them after you already turn to the position you need.

7 Turning on the Power Switch





1 Set the power switch to < ON >.

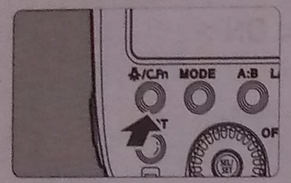
▶ The flash recycling starts.

C.Fn Can set the startup sound of the flash

2 Check that the flash is ready.

- The pilot lamp will first turn green (ready for quick flash), then red (flash ready).
- Pressing the pilot lamp will fire a test flash.

8 Turn on/off LCD illumination and custom setting



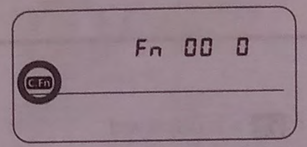
3 Turn on/off LCD illumination

- Press " /C.Fn " one to turn on the LCD illumination light.
- Press " /C.Fn " again to turn off it.
- ▶ It will be automatically turned off without any operation for 15 seconds.

4 Setting the Custom Function。

You can customize Speedlite features to suit your shooting preferences. You do this with Custom Functions.

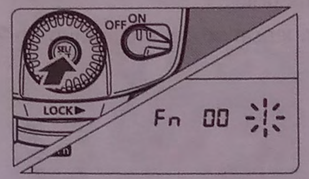
Custom Function No.	Function	Setting No.	Setting & Description
C.Fn-01	Auto power off	0	Without warning tone,has warning tone
		1	Without warning tone



5 Hold down the < /C.Fn > button until < C.Fn > is displayed.

6 Select the Custom Function No.

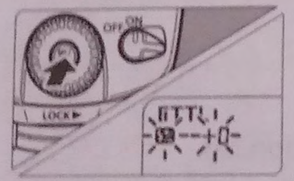
- Turn the < > dial to set the Custom Function No.



7 Change the setting.

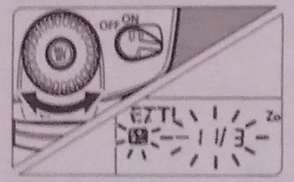
- Press the < > button.
- ▸ The Custom Function No. blinks.
- ▸ Turn the < > dial to set the desired number, then press the < > button.
- ▸ After you set the Custom Function and press the < **MODE** > button, the camera will be ready to shoot.

9 ETTL Mode



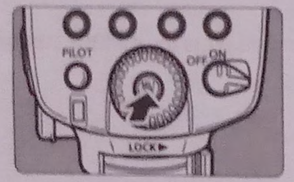
1 Select < ⚡ >.

- Press the < ◉ > button so that < ⚡ > is displayed.
- ▶ The < ⚡ > icon and the flash exposure compensation amount will blink.



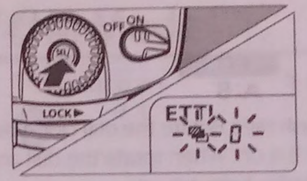
2 Set the flash exposure compensation amount.

- Turn the < ◎ > dial to set the amount.
- To cancel the flash exposure compensation, set the amount to "+0".



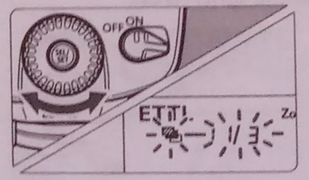
3 Press the < ◉ > button.

- ▶ Flash exposure compensation will be set.



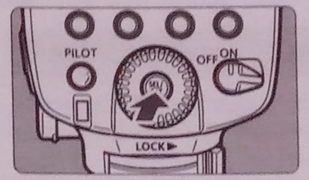
4 Select < ▣ >.

- Press the < ◉ > button so that < ▣ > is displayed.
- ▶ The < ▣ > icon and bracketing amount will blink.



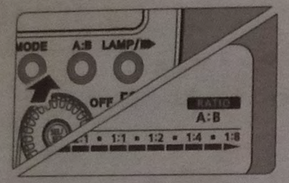
5 Set the flash exposure bracketing amount.

- Turn the < ◎ > dial to set the amount.



6 Press the < ◉ > button.

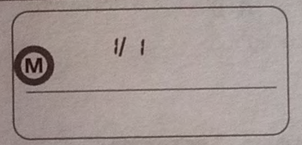
- ▶ FEB will be set.



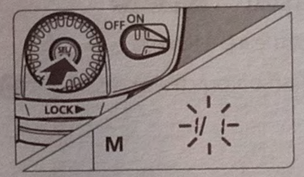
7 Select< RATIO >。

- Press the < A:B > button so that < RATIO A:B > is displayed.
- Rotate the dial " ◎ " to set the flash ratio.Rotate the dial clockwise, it appear " RATIO B ", only the light B is on. When rotate the dial anti-clockwise,it appear" RATIO B ", only the light A is on.

10 M Mode



1 Press the < MODE > button so that < M > is displayed.



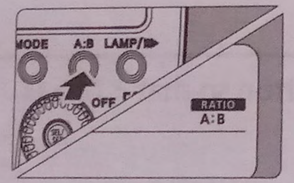
2 Set the flash output.

- Press the < ◎ > button.
- ▶ The flash output blinks.
- Turn the < ◎ > dial to set the flash output, then press the < ◎ > button.

Flash Output Display

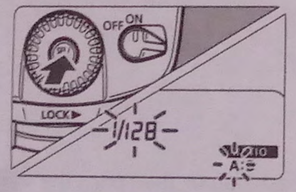
When you change the flash output during shooting, the table below makes it easier to see how the stop changes such as 1/2 -0.3→1/2→1/2 +0.3. You can see how the stop changes when you increase or decrease the flash output.

For example, when you decrease the flash output to 1/2, 1/2 -0.3, or 1/2-0.7, and then increase the flash output to more than 1/2, 1/2 +0.3, 1/2+0.7, and 1/1 will be displayed.



3 Setting the A or B light

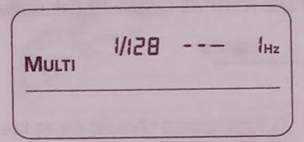
- Press the < **A:B** > button so that < RATIO A:B > is displayed.
- Rotate dial" ◎ "to set the light A or light B.



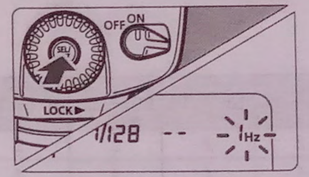
4 Setting the flash ratio output " RATIO "

- Press the < ◎ > button to select the item (blinks).
- Turn the < ◎ > dial to set the flash output, then press the < ◎ > button.

11 MULTI Mode

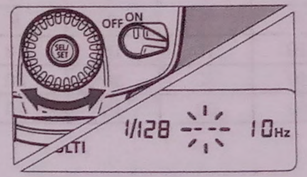


1 Press the < MODE > button so that < MULTI > is displayed.



2 Select the item to be set.

- Press the < ◎ > button to select the item (blinks).



3 Set the desired number.

- Turn the < ◎ > dial to set the number, then press the< ◎ > button.
- ▶ The next item to be set will blink.
- After you set the flash output and press the < ◎ > button, all the settings will be displayed.

Calculating the Shutter Speed

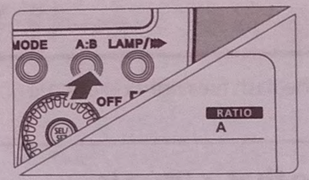
During stroboscopic flash, the shutter remains open until the firing stops. Use the formula below to calculate the shutter speed and set it with the camera.

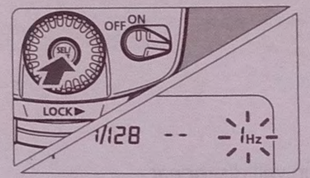
Number of flashes ÷ Firing frequency = Shutter speed

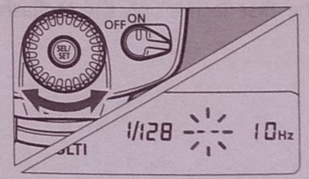
For example, if the number of flashes is 10 and the firing frequency is 5Hz, the shutter speed should be at least 2 sec.

Maximum Stroboscopic Flashes

闪光输出 \ Hz	1	2	3	4	5	6 – 7	8 – 9	10	11	12 – 14	15 – 19	20 – 50	60 – 199
1/4	7	6	5	4	4	3	3	2	2	2	2	2	2
1/8	14	14	12	10	8	6	5	4	4	4	4	4	4
1/16	30	30	30	20	20	20	10	8	8	8	8	8	8
1/32	60	60	60	50	50	40	30	20	20	20	18	16	12
1/64	90	90	90	80	80	70	60	50	40	40	35	30	20
1/128	100	100	100	100	100	90	80	70	70	60	50	40	40







4 Select< RATIO >。

- Press " **A:B** " button, then " RATIO A " displayed, set the light A.
- Press " **A:B** "button again, then " RATIO B " displayed, set the light B.
- Press " **A:B** " button again to cancel the flash ratio setting

5 Select the item to be set

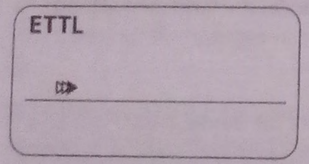
- Press the < ◉ > button to select the item (blinks).

6 Set the desired number

- Turn the < ◎ > dial to set the number, then press the< ◉ > button.
- ▶ The next item to be set will blink.
- After you set the flash output and press the < ◉ > button, all the settings will be displayed.

12 Second-Curtain Sync

With a slow shutter speed, you can create a light trail following the subject. The flash fires right before the shutter closes.



Press the < ⏭ > button so that < ⏭ >is displayed.

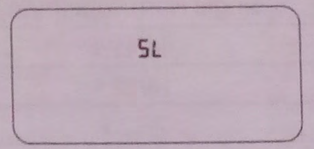
- Second-curtain sync works well in the camera's "buLb" mode.
- To return to normal flash, press the < ⏭ > button again. The < ⏭ > icon will disappear.
- With E-TTL II/E-TTL, two flashes will be fired even at slow shutter speeds. The first flash is only the preflash, and not a malfunction.
- Stroboscopic flash cannot be set.
- Wireless flash cannot be set.

13 Power Saving and Low Power Warning Mode

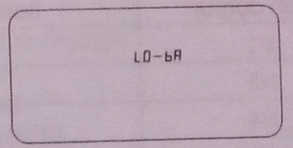
Power save mode: Flash entry sleep mode if 90s non-operation. Screen hint " SL ".

a. Wake up when press any button.

b. Flash recevie singal auto-wake up when press shutter release button.



Low power warn :
indicator flash and screen hint " LO-bA " ,
Flash should power off or replace battery



14 Flash Index:

Use the guide number.table and the following equation to calculate the aperture, flash output level, and shooting distance to obtain the correct exposure. The guide number (GN at ISO 100m/in.) indicates the amount of light generated by the flash. The lager the number, the greater the flash output.

Flash output	Both Flash Tubes(m/in.)	Single Flash Tube(m/in.)
1/1	14/45.9	14/45.9
1/2	10/32.8	10/32.8
1/4	7/22.9	7/22.9
1/8	5/16.4	5/16.4
1/16	3.5/11.5	3.5/11.5
1/32	2.5/8.5	2.5/8.5
1/64	1.8/5.9	1.8/5.9
1/128	1.2/3.9	1.2/3.9

15 Specifications:

- Type: Close-up
- Compatible cameras: Canon, Nikon, Pentax, Olympus, Samsung;needs a hotshoe adapter for sony
- Guide No.: 14/46(ISO100, in meter/in.)
- Effective Distance: Approx. 20cm-5m
- Color temperature: 5500K
- Flash coverage: 80° degrees in either direction
- Firing configuration: Two flash tubes can be fired together or single
- Flash ratio control: 1:8~1:1~8:1 in 1/2-stop increments
- Flash exposure compensation: Manual, FBE: in. 1/3-stop increments
- Flash exposure confirmation: Flash exposure confirmation lamp lights
- AF Assist Lamp: Approx.40° top and bottom and 45° left and rights/On time: Approx. 12sec.
- Recycling time: Approx. 0.1~5sec.
- Supply battery: 4XAA/LR6 alkaline batteries
- Battery life: Approx. 100~800 flashes(with AA/LR6 alkaline batteries)
- External power source: Compact battery pack CP-E4
- Accessories: Adapter ring 40.5/52/55/58/62/67/72/77mm, PouchX1, Instruction ManualX1, Warranty CardX1.