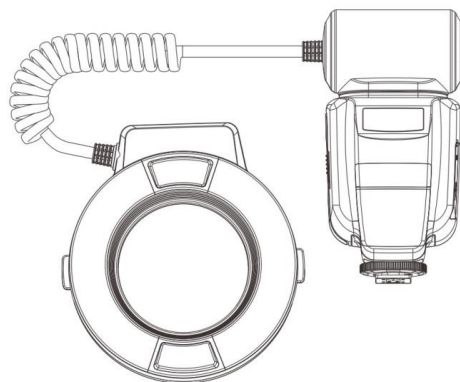


# 闪光灯

***SPEEDLITE***



中文  
English

如有任何印刷或排版说明上的误差，望广大用户谅解。产品设计和规格如有更改，恕不另行通知。  
If it has any printing errors and omissions or errors in translations, hope the majority of users understand. Specifications and design are subject to change without notice.

M版使用说明书  
Instruction Manual

## Thank you purchasing this speedlite.

Please read carefully this manual before using, and then use this speedlite correctly on the base of though understanding.

### Safety instruction

1. Never trigger the speedlite around flammable gas or liquid gas in the vicinity (such as gasoline and solvents) ! There be risk of explosion!

2. Neither shoot with the speedlite at drivers who are driving cars, buses or trains, nor the rider of motor and bicycle. They may be temporarily blind of the bright light and cause traffic accident.

3. Never trigger the speedlite at close range at the eyes! Using the speedlite directly at people or animal's eyes will damage the retinas and cause serious visual disturbance, even blindness.

4. Only use the batteries listed in this manual!

5. Never place the batteries in high-temperature environment, such as under the sun or in the fire.

6. Should remove the drained battery from the speedlite. Because the alkaline liquid exuding from the battery will damage the speedlite.

7. Do not charge the dry battery.

8. Note to protect the speedlite under extremely hot or damp environment!

9. Never put the speedlite in the glove box of the car dashboard. When trigger the speedlite, never put any light-proof items before or on the reflection shield. There can not be any dirt on the reflection, or the high energy that the speedlite emitted will burn the item or damage the reflection shield.

10. Never touch the speedlite after continuous triggering. There will be danger of burning!

11. Never unpack the speedlite by yourself! There will be danger of electricity shock! Non professional personal can not fix the component in the speedlite.

12. When doing fast continuous shooting under optical output, must stop 15 minutes every 10 continuous flashes.

13. When under optical output, continuously using the speedlite by high-speed recycling and the zoom position is less than 36mm, the diffuser will give heat out of the high energy.

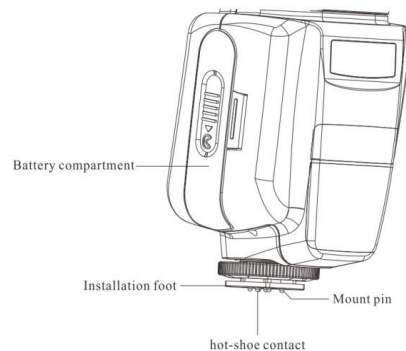
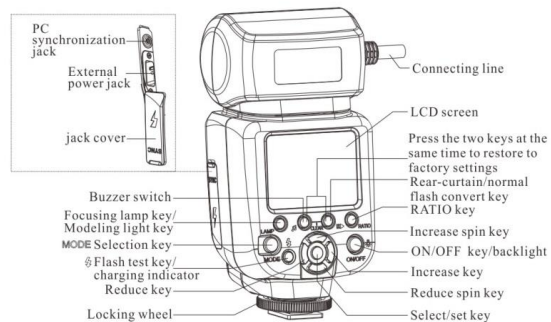
14. The quick change of temperature will cause vapor condensation.

15. Never use any defected battery to this speedlite.

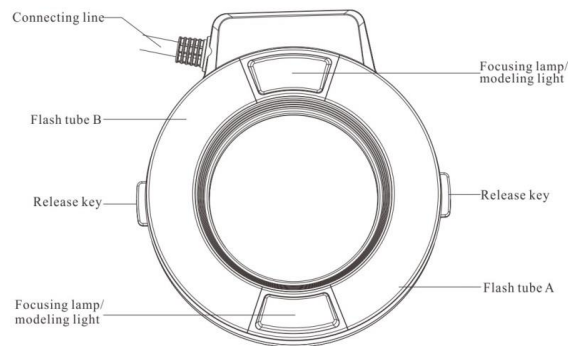
## The Speedlite Features

1. TTL flash
2. Manual flash
3. Multi flash
4. Modeling light
5. FEB, flash exposure, FEL/FV
6. Left and right tube adjusts the light separately
7. Flash control by camera (only for the newest Canon version)
8. Rear-curtain Sync
9. Voice prompt
10. Power save mode
11. Overheating protection
12. Automatic save function
13. Large size LCD display
14. Quick response: only 2.9 seconds with full output

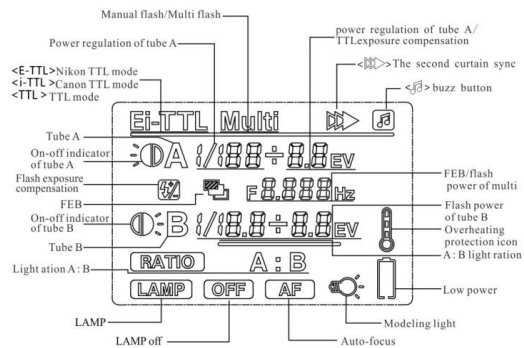
## Nomenclature



## Control unit



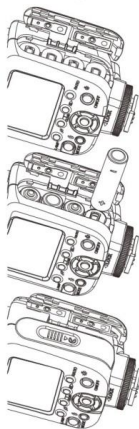
**Flash unit**



**LCD screen**

## Basic Operating

### Installing the batteries



#### 1. Open the cover

According to the direction of arrow to slid the battery cover then open it.

#### 2. Install the batteries

According to the battery icon in the bulkhead [+ ] and [- ] signs into the battery, make sure the battery positive and negative contacts are correctly oriented.

#### 3. Close the cover

Sliding direction of the arrow battery cover, turn it off

### The applicative battery or chargeable battery

Every battery below is applicative to this speedlite.

A. 4 (AA) alkaline manganese battery (1.5V). The battery can meet medium power demand and does not need maintenance, but it can not be recharged.

B. 4 (AA) nickel-cadmium battery (1.2V). The battery recycles quickly and can be recharged, so it is economic.

C. 4 (AA) nickel-metal hydride batteries (1.2V). This battery's power obviously exceed that of nickel-cadmium battery, and it is less

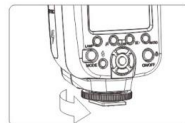
harmful to the environment (do not contain cadmium).

D. 4 (AA) lithium battery (1.5V). This battery has large capacity and is low of self-discharge rate and in no need of maintenance.

E. 4 (AA) hydrogen oxygen cell (1.5V). This battery is also called (OXYRIDE), its capacity is larger and its service life is about 1.5 times of alkaline battery's. So it is very applicative in electronic products of high power consumption.

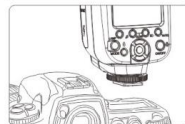
If use external acceleration power box, battery box or power pack, please put 4 (AA) batteries into the speedlite to supply CPU. If don't use the speedlite for a long time, you should remove the batteries.

### Attaching to the camera



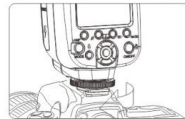
#### 1. Prepare to attach the speedlite

Rotating the locking plate up to the highest point as the marked arrow.



#### 2. Install the speedlite

Installing the speedlite light's mounting support into the hot shoe of camera.



#### 3. Secure the speedlite

Tightening the locking plate as the marked arrow.

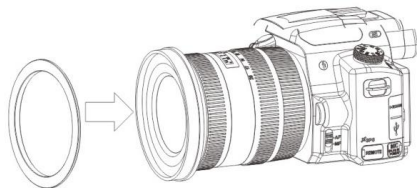
#### 4. Detach the speedlite

Rotating the locking plate up to the highest point, then detach the speedlite from the hot shoe.

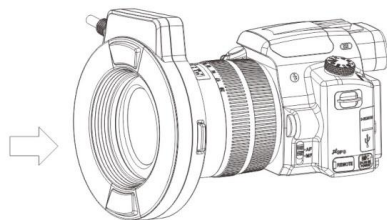
- Note: Make sure the speedlite and camera are turned off.
- Do not forcibly pull out force.

## Installing the control unit of the speedlite

Select the proper adapter and rotate to the back of the camera lens



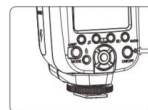
Press release key and install the flash unit to the adapter.



Note: There will be vignette in the margin of the photo when use the speedlite with 77mm or above lens. Make sure the adapter and the lens installs firmly and rotate the flash unit according to the shooting.

Press the release button when rotate the flash unit. Release the button when rotate the flash unit to the proper position.

## Turn on the power



Press the Power button (ON/OFF) for two seconds to turn on/off the speedlite.

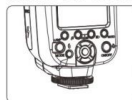
In order to save battery power and avoid battery leakage, The default setting are as following:

After automatically shut off the power opened, When the speedlite do not working within 60 seconds, the CPU automatically into hibernation. In this case press any key to wake up the speedlite. When the speedlite does not work for more than 30 minutes, the CPU will shut down automatically.

If the speedlite is not used for a long period time, it is recommended to use the main power switch to turn off the speedlite and remove the power source (battery). Before removing the battery, turn off the power of the speedlite.

After the speedlite capacitor is full charged, the speedlite PILOT button lights up, indicating that the speedlite is ready to trigger. This means that the next time can use the speedlite when shooting.

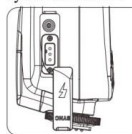
## State of charge indicator



Before shooting, confirmed that flash charging indicator light and camera viewfinder lights have been lit.

## Extended Interface

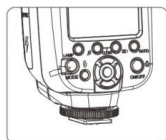
External power supply by extending the interface and complete PC synchronization



1. The external power connector Provides more adequate power.
2. Connect with the PC sync Make sure camera and speedlite synchronized flash.

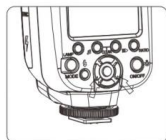
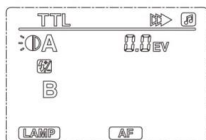
## TTL Flash

Set the camera's shooting mode to <P>( Program automatic exposure) or <□> (Auto),when fully automatic flash will make photography became as simple as <P> mode and <□> mode under normal automatic exposure.



Choose flash mode

1.Press[MODE](mode button). 2.Until screen show TTL



Set exposure compensation

Press [PLUS][MINUS]button to set the compensation value.

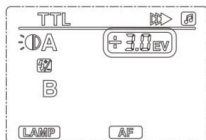
1.Press[PLUS]button,the value increase;

Press[MINUS]button , the value decrease.

2.Set range is from +3. 0EV to -3. 0EV :

0EV→+0. 3EV→+0. 7EV→... →+3. 0EV

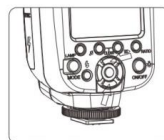
0EV→-0. 3EV→-0. 7EV→... →-3. 0EV



## FEB

You can make shooting target flash exposure value changed freely via FEB when the background keep exposure value don't change. Three FEB can adjust from 1/3 to +3 , according correct exposure、lack exposure、excess exposure in sequence. After this action, FEB will cancel automatically .

For FEB, can set the camera as "shoot once" and make sure speedlight have be ready before shooting. When connect Canon camera, will action as FEB set of speedlight;when connect with Nikon camera, speedlight will not show FEB information, you should confirm if the camera support FEB function, if can, pls set camera follow its instruction.



### FEB to set flash exposure value(CANON)

1. Press[PLUS]button, FEB value increase;  
Press[MINUS]button, FEB value decrease.
2. Set FEB value range from 0 to 3. 0.

FEB value mark :

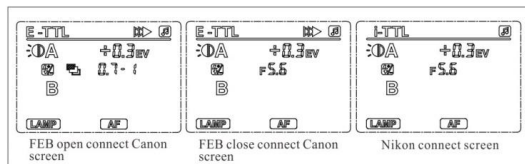
0	0.3	0.7	1.0	1.3	1.7	2.0	2.3	2.7	3.0
---	-----	-----	-----	-----	-----	-----	-----	-----	-----

## FV Lock

Using FV Lock can help lock correct flash exposure in any situation.

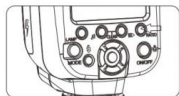
When screen show TTL mode, Canon camera press "FEL" button, if camera don't have "FEL" button, press flash exposure lock "\*" button. For Nikon press "FV" button.

When camera support flash exposure lock: connect flash screen as TTL mode, then set FV lock of camera, then speedlight will preflashing, and camera will count the suitable output date, so can recompose, after recompose you can press shutter for shooting. (this function is available when the camera support it, pls check your camera instruction to set).

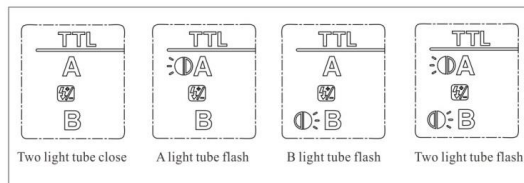


## Choose light tube

You can make shadow and special light effect by close two light tube or 2 light tube flash (adjust flash rate).

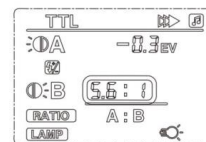
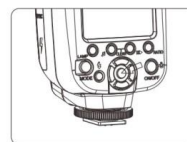


Press [RATIO] button can changed between follow 4 situation as two light tubes close A light tube flash, B light tube flash, two light tubes flash.



## Set flash light rate

In TTL mode, when two light tube open, can adjust light tube A and B flash rate, then can make shadow on shooting target, makes photo have engrave effect. Can adjust flash rate by 1/2 level as 1:8-1:1-8:1.



In AB light tube flash mode, press [SET] button, light flash follow light rate.





In setting state, press [increase][reduce] keys to select flash ratio.

Press [increase] key, flash ratio change in following direction:

8:1→5.6:1→4:1→2.8:1→2:1→1.4:1→1:1→1:1.4→1:2→1:2.8→1:4→1:5.6→1:8

Press [reduce] key, flash ratio change in following direction:

1:8→1:5.6→1:4→1:2.8→1:2→1:1.4→1:1→1.4:1→2:1→2.8:1→4:1→5.6:1→8:1

Note: select the the extreme flash ratio, only one flash tube will light:

<8:1>: only light A tube

<1:8>: only light B tube

Note: flash ratio does not support access to Canon's internal menu.

## Using E-TTL and Autoflash in the shooting Modes

Just set camera's shooting mode to <AV/A>(aperture -priority AE), <TV/S>(shutter-priority AE), or <M>(manual) and you can use E-TTL/i-TTL autoflash.

TV	Select this mode when you want to set the shutter speed manually. The camera will then automatically set aperture matching the shutter speed to obtain a standard exposure. If the aperture display blinks, it means that the background exposure will be underexposed or overexposed. Adjust the shutter speed until the aperture display stops blinking.
AV	Select this mode when you want to set the aperture manually. The camera will then automatically set the shutter speed matching the aperture to obtain a standard exposure. If the background is dark like a night scene, a slow sync speed will be used to obtain a standard exposure of both the main subject and background. Standard exposure of the main subject is obtained with the flash, while a standard exposure of the background is obtained with a slow shutter speed. Since a slow shutter speed will be used for low-light scenes, using a tripod is recommended. If the shutter speed display blinks, it means that the background exposure will be underexposed or overexposed. Adjust the aperture until the shutter speed display stops blinking.
M	Select this mode if you want to set both the shutter speed and aperture manually. Standard exposure of the main subject is obtained with the flash. The exposure of the background is obtained with the shutter speed and aperture combination you set.

If you use the <DEP> or <A-DEP> shooting mode, the result will be the same as using the <P>(Program AE) mode.

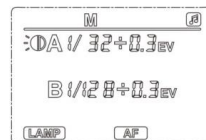
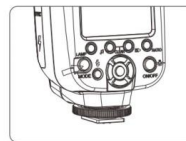
### Flash Sync Speed and Aperture Value

	Shutter Speed Setting	Aperture Value Setting
<b>P</b>	Set automatically(1/60 sec.~1/Xsec.)	Automatic
<b>TV/S</b>	Set manually(30 sec.~1/Xsec.)	Automatic
<b>AV/A</b>	Set automatically(30 sec.~1/Xsec.)	Manual
<b>M</b>	Set manually(buLb,30 sec.~1/Xsec.)	Manual

1/X sec.is the camera's maximum flash sync speed.

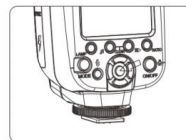
### Manual mode

When you need manual exposure,you can set the flash brightness according to your requirement,set the flash output by every 1/3 from 1/128 power to 1/1 full power



Select flash mode

1.Press [MODE](mode key). 2.Till the LCD display M.

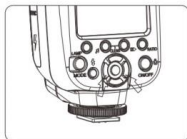


A light tube power setting

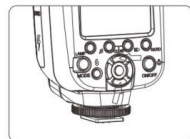
1.Press [setting] key till a light tube's power value flicker.  
Press [increase] key,the power value increases in turn;  
Press [reduce] key,the power value reduces in turn  
icon:

1/128→1/64→1/32→...→ 1/1

1/1→1/2→1/4 →...→ 1/128



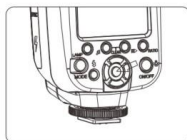
Press increase/reduce key to coarse power



Press increase/reduce trimming key to fine tune power

2. Press [increase trimming key] [reduce trimming key] to fine tune the flash power value.

Icon: 0EV → +0.3EV → +0.7EV  
0EV → -0.3EV → -0.7EV



B light tube power setting

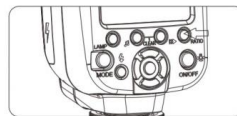
Press [setting] key till B light tube's power value flicker.

Press [increase] [reduce] key to coarse the power,

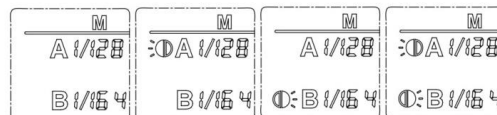
Press [increase trimming] [reduce trimming] key to fine tune the flash power value.

## Select flash tube

By turning off two flash tube, only light one or light both, you can create shadow and make special light effect.



Press [RATIO] key, the flash will switch among the following 4 states: both tube off, only A tube flash, only B tube flash, both tube flash.



Both tube off

Only A tube flash

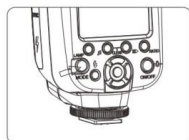
Only B tube flash

Both tube flash

## Multi-flash mode

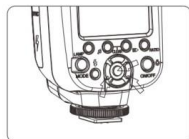
First set the camera in M mode. When use Multi-flash mode, it can make series of quick flash. It multi-flash on one photo, and can freeze the series of action in turn. Under this mode, please set AB tube's output power, flash times and flash rate (flash times/second represented by HZ) as needed. This mode is always used shooting moving objects.

To prevent flash unit overheating and damage, please don't do continuous shooting over 10 times. Between 2 exposure operations, please leave enough time for flash to recycle. It means at least 15 minutes needed for flash cooling after 10 times continuous flash. If you try continuous shooting over 10 times, the flash will stop automatically to prevent flash unit overheating. Under such situation, please cool the flash at least 15 minutes. Please use new batteries or full charged batteries to operate this mode.



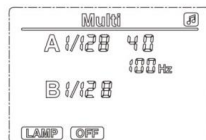
Select flash mode

1. Press [MODE] (mode key)

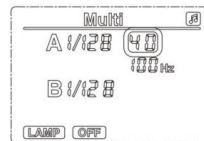
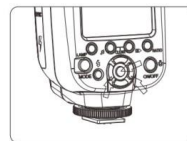


A light tube exposure power setting

Press [setting key] till A light tube's power value flicker.  
Press [increase] [reduce] key to set flash power; manual output control can be adjusted with 6 gears, the flash brightness can be adjusted from 1/4 to 1/128.



2. Till the LCD display Multi

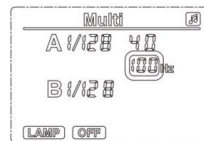
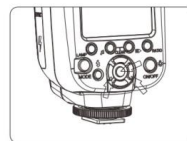


Flash times setting

Press [set] to set flash times of flashing, and then press [increase][decrease] buttons to set the frequency of flashes:  
Available flash times is 1-40.

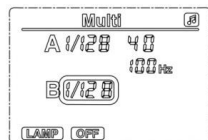
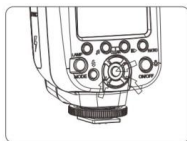
Relational tables between flash power and flash times

Flash power	1/128	1/64	1/32	1/16	1/8	1/4
Flash times	1-40	1-20	1-12	1-8	1-4	1-2



Frequency setting

Press [Set] to frequency flash, press [increase][decrease] keys to set the frequency, the available flash frequency is 1HZ-100HZ.



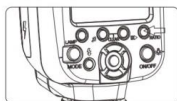
#### Tube B exposure power setting

Press[Set] to tube B flash power value, then press[increase] [decrease] button to set the flash power; manual output to control gets six level adjustable, flash intensity change from 1/4 to 1/128.

Parameter setting is complete, press [OK] to exit the setting mode, or auto-save and exit after 5 seconds without operation.

#### Choose flash tube

By closing two lamps so that only one or two flash lamps are flashing, you can create shadows and create special lighting effects.



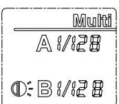
Press [RATIO] key, the flash will switch among the following 4 states: both tube off, only A tube flash, only B tube flash, both tube flash.



Both tube off



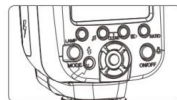
Only A tube flash



Only B tube flash



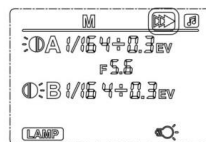
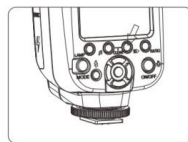
Both tube flash



Finish setting, you can press the test button to test the effect of flashing.

#### “Rear curtain sync settings

Rear curtain sync: Use a slow shutter, you can create a light trail behind the subject, flash fires in the instant before the shutter closes.



1. If you need to use proper curtain sync feature on the Canon camera, just press[Rear curtain/normal flash switch] under the mode of TTL or M to turn on or turn off the flash rear curtain sync function, synchronous mode icon will appear on the screen when the rear curtain sync function is on. (as shown in picture)

2. If you need to use proper curtain sync feature on the Nikon camera, first make sure whether the camera supports this function or not, if it does then refer to the camera manual and set rear curtain sync function on the camera (There's no display on the flash when it is online).

Note: To use rear curtain sync feature properly, set the camera flash mode and shutter speed correctly.

## Camera menu access(only latest Canon models)

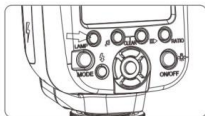
Support the E-TTL newer Canon camera can be accessed through the camera menu. In the flash control menu "external flash function settings you can set the flash parameters"; such as switching E-TTL mode/manual flash mode and multiple flash modes (MULTI), exposure bracketing, exposure compensation.

Note: Canon built-in menu can only adjust A's parameters, you can not adjust the parameters B, it can only be adjusted by selecting the button.

## Focus Assist/Modeling lights

In the case that images in low brightness or viewfinder becomes very dark when playing magnification, it is difficult to focus, the focus assist lamp will help you focus. In addition, modeling lamp can provide continuous brightness, play a good role in macro photography.

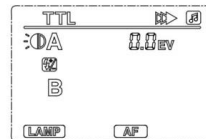
Focus assist and modeling lights setting:



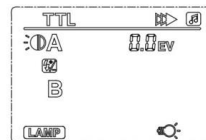
Press[LAMP], it will switch among the function of off, focus and shape, you can freely set according to shooting brightness conditions and difficulty focusing situation.



In this state, it used neither as a focus assist light, nor as a modeling light



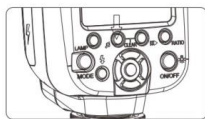
When light on, it will send short focus single to assist focus, then easy to shooting.



Continue light as mode lamp, ignore focus function.

Note: When in this mode to shooting, the photo will be exposure over. You press increase key or decrease key to reduce flash output power.

## Sound prompt

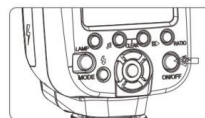


Turn on sound prompt function. The flash light will show different sounds to display different work situation. The sound prompt can be turned on or off by the beep key.



1. A long beep: recycling done
2. Two short beeps: turn on or normal flash after recycling done
3. Two long beeps: recycling unfinished flash
4. Three short beeps: 30 minutes without operation, auto turn off or shut down.
5. Four short beeps: does not work when the battery power is not enough (recycling timeout)
6. The display will show continuous short beeps: flash overheating, to enter the overheating protection. Enter overheating protection, the display will show overheating protection icon.

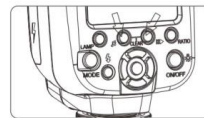
## Backlight prompt



Press <backlight switch> key to turn on or off.

When the LCD backlight is in standby mode about 15s without any action. The speedlite will be automatically off and the backlight will be activated so as to save power and prevent power accidental discharge.

## Restore factory settings



If you want to cancel all settings, press (beep key) and (rear curtain/normal flash switch) key together.

## Automatic save function

Flash light will be auto saving current settings to facilitate the next boot using.

## Specifications:

Circuit design: Insulated Gate Bipolar Transistor

Guide No: GN14 (ISO100)

Transmission range: 20CM--5M

Flash coverage: Approx 80 degree up and down bottom and 80 degree left and right

Firing configuration: Two flash tubes can be fired together or singly

Exposure Control Type: TTL, Manual flash, M-TTL flash

Flash ratio control: 1:8-1:1 or 1:1-8:1 in 1/2-stop increments

Color temperature: 5500K

Flash time: 1/200s-1/20000s

Flash times: 100-1500 flashes

External interface: hot shoe, PC port, external charging port

Flash ready indication: Approx 2.9s

Power sources: 4 pcs AA alkaline batteries or AA NI-MH batteries

Extra function: power saving, overheat protection.

Control unit: 143\*73\*61MM

Flash unit: 130\*126\*28MM

Weight: Approx 465G

Packing including

Marco flash light (1)

User manual (1)

Mini stand (1)

Adapter inculde (4) pcs: 55mm, 58mm, 62mm, 67mm

