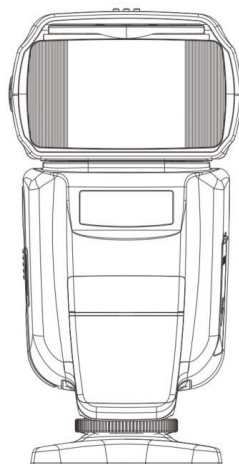


# 闪光灯说明书



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.

Instruction Manual

## Thank you for purchasing this speedlite

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

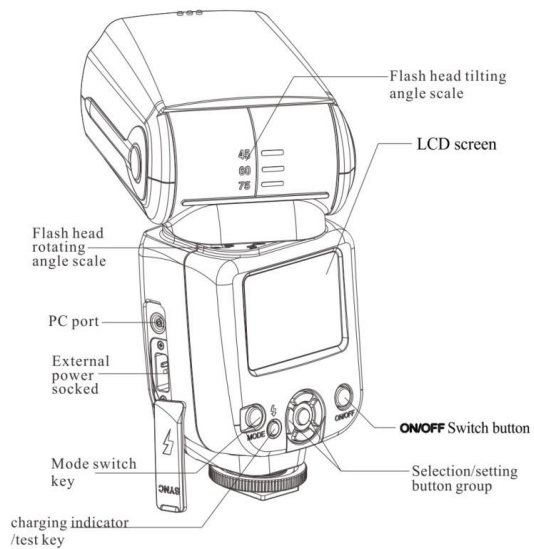
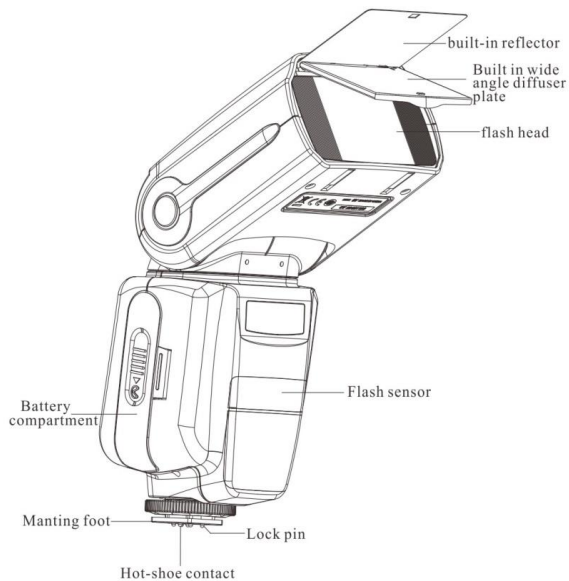
14.The quick change of temperature will cause vapor condensation.

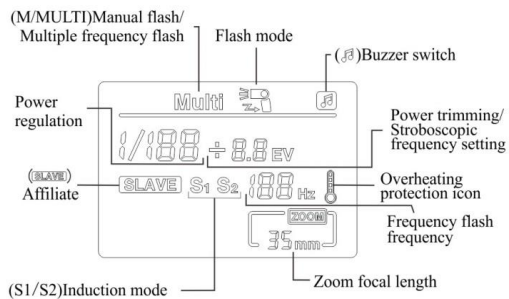
15.Never use any defected battery to this speedlite.

## The Speedlite Features

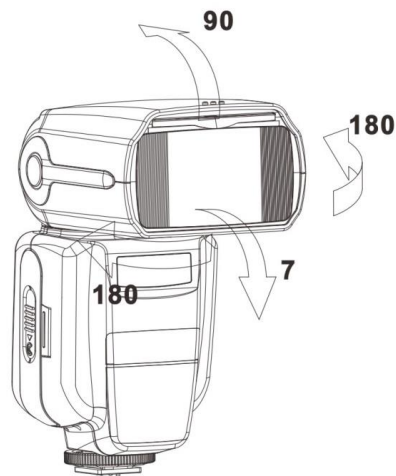
1. Manual flash
2. Multi flash
3. S1,S2 Light flashing mode
- 4.Manual zoom
5. Voice prompt
6. Power save mode
7. Overheating protection
8. Fast speeding call back system

## Nomenclature





## Set the Bounce Drection



This speedlite can rotate up to 90 degree and down to 7 degree. Horizontal rotating 'left to right' or 'right to left' 180 degree. Rotating the speedlite to the ceiling or wall to make the image more natural.

## 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.

## 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.

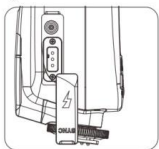
## State of charge indicator



Before shooting, confirm the flash charging indicator lights have been lit.

## Extended Interface

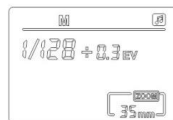
External power supply by extending the interface and complete PC synchronization




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

## Manual flash mode M

When you need a manual exposure, according to own requirements to set the brightness of the flash output between 1/128 power to 1/1 full power. Adjust the flash output with 1/3 speed increment, press the zoom button **【ZOOM】** into the manual zoom.



Select the flash mode

Press **【MODE】** mode button until the LCD display .

Power setting

1. Select the Settings button group

**【RIGHT】** keys, power values increase

sequentially.

Icon: 1/128 → 1/64 → 1/32 → ... → 1/1

2. Select the Settings button group **【LEFT】** keys, power values decrease sequentially.

Icon: 1/1 → 1/2 → 1/4 → ... → 1/128

3. Select the Settings button group **【UP】** **【DOWN】** keys, Fine tuning

## Light flashing mode S1 S2

When use S1, S2 mode, the sensor against the master lights by rotating the flash head.

**Set light flashing mode S1 S2:**

1. Press wireless select button until the LCD display shows the S1, S2.

When you press the 'Select the Settings button' **【RIGHT】** keys, the compensation value in turn increases.

Icon: 1/128 → 1/64 → 1/32 → ... → 1/1

When you press the 'Select the Settings button' **【LEFT】** keys, the compensation value in turn decreases.

Icon: 1/128 → 1/64 → 1/32 → ... → 1/1

2. Select Settings button **【UP】** **【DOWN】** function keys, to fine-tune the flash power value.

Icon: 0EV → +0.3EV → +0.7EV

0EV → -0.3EV → -0.7EV

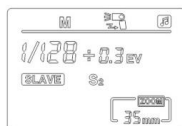
Press the 'wireless select button', can make flash into the S1, S2 mode, these two modes suited as from the machine auxiliary lamp role to create a variety of lighting effects. They are suitable for manual flash environment and TTL flash environment.



#### S1 Mode:

It is suitable for manual flash environment, It will senses every flash of the main flash and synchronous trigger flash, It is consist effect for use wireless flash. To properly use this mode, your master flash should be

set in the manual flash and neither be used with pre-flash TTL flash system, Nor be used with multiple flash red-eye reduction function.



#### S2 Mode:

It is suitable for TTL flash mode, also known as the 'pre-flash cancel mode', the mode can ignore the pre-flash TTL flash and synchronization with the main flash, so you can support the Master flash in TTL mode.

If the auxiliary lamp selection S1/S2 mode can not properly synchronized with the master flash, make sure that the flash mode of the master flash is right. Sensing modes and power output should be set correctly.

Please note that to avoid the following situations when use the S1 S2 mode: The Master speedlite should be in the red-eye reduction function and modeling; The master speedlite using the command mode (Nikon) or wireless mode (Canon); Use ST-E2 as flash controller.

### Stroboscopic flash mode(Multi)

Using Multi mode, you can issue a series of quick flash, it can shoot multiple images of moving objects on a photo, you can set the flash frequency (number of flashes per second can use Hz to show), the number of flashes and flash output. During repeated Multi mode, Single exposure create a strobe effect of multiple exposures. This mode is often used when shooting moving objects.

To prevent the flash head overheat and damage, do not perform more than 10 times in a row strobe flash burst. Between twice repeated exposure operation please let flash plenty of time for the call back. After flash work for 10 times please let it cool for at least 15 minutes, if you are trying to perform more than 10 times in a row strobe flash burst the flash may automatically stop to prevent overheating of the flash head. If this happens, please let the flash cool for at least 15 minutes. Please use a new battery or a fully charged battery to operate this mode.

Under Strobe mode (Multi), It support flash power, time of flash as well as frequency regulation.



Select the flash mode  
Press **[MODE]** mode button until the LCD display **[Multi]**.

#### Frequency setting

Select the setting button group **[MIDDLE]** key of settings button group to display **[---Hz]** flicker, Press select settings button group **[LEFT]** **[RIGHT]** to set the frequency. The available flash frequency is 1HZ-100HZ. After value setted then select the setting button group

#### The number of flashes set

Select the Settings button group **[MIDDLE]** key to display **[--]** flashing, Select the Settings button group **[LEFT]** **[RIGHT]** key to set the number of flashes, the available number of flashes for 1-40. After Values setted and then select the Settings button group **[MIDDLE]** key to confirm.

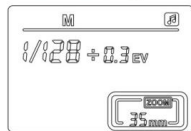


## Exposure power setting

Press select the Settings button group 【MIDDLE】 key until LCD display  $1/128$  flashing. "Select the Settings button group 【LEFT】 【RIGHT】 key to set the flash power. After Values is setted and then select the Settings button group 【MIDDLE】 key to confirm.

Flash power and the number of flash relational tables						
Flash power	1-128	1-64	1-132	1-16	1-8	1-4
Flash number	1-40	1-20	1-12	1-8	1-4	1-2

## Zoom setting



Press [middle]key of the select setting key group until the LCD zoom flicker.

1. Press "select setting key group" [middle]key to get into manual zoom.  
2. Press "select setting key group" to change the head zoom, confirm with [middle]key after setting the zoom value.

Press "select setting key group" [right] key, the zoom value increase in turn; press the [left]key, the zoom value reduce in turn.

M	M	M	M	M	M	M	M	M	M
18	24	28	35	50	70	85	105	135	180

## Voice prompts:

Different sound ways will prompt the different working conditions of the speedlite so as to make you focus on shooting only.

Long press the 【Middle】 button to set the buzzer switch will be turned on or off.



1. A long ring: call back to complete.
2. Two short sound: boot or call back to complete normal flash.
3. Two long beeps: flash call back unfinished.
4. Three short blasts: 30 minutes without operation automatically turn off or shut down.

5. Four short beeps: low battery shutdown (call back timeout).

6. The display will show continuous shortness beep: flash overheating, to enter the overheating protection. enter overheating protection the display will show overheating protection icon.

## Backlight tips

1. When the first time press LCD backlight switch, the LCD backlight on. Then press LCD backlight the LCD will under close status.
2. When the LCD backlight in standby mode about 15 seconds without any action, the speedlite will be automatically turns off and the backlight will be activated to save power and prevent power accidental discharge.

## Multi-lamp lighting applications

### Light sensor & multi-lamp light :

Using built-in seedlite or external speedlite as the Master speedlite.

Use the speedlite by different type to do different angle.

When be used, wireless signal can be refelet by wall in door. So there will be more space to place the Slave speedlite.

The improved wireless triggering sensor trigger have higher sensor sensitivity, S1, S2 mode can work in the outdoor environment, wireless trigger sensing have distance of 15 meters.

Using the Slave speedlite, please test S1 or S2 model if it is synchronous before shooting.

Please don't put any barriers between the Master and Slave speedlite. The barrier prevent to send wireless light signal.

When used outdoor, the optic control sensor should be towarded to the Master speedlite, The speedlite can't be used under sunshine. If your speedlite's shining position had clashed. Please whirl the head of speedlite to satisfy photography request.



### Bounce flash

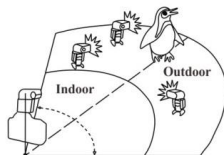
When the flash head pointing to the wall or ceiling, flash will be wall reflection. When it is illuminate the subject, this can reduce the shadows around the subject and get more natural photographic effects.

### High-speed burst mode

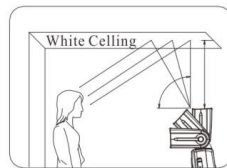
The speedlite could support 12 EPS high-speed burst function. Please set the camera into burst mode, and then shooting.

Please attention: the photos quantity in connection with brightness. So please keep enough battery power.

### Set position and operating range:



### Adjust flash tilt rotation angle and select the reflection plane

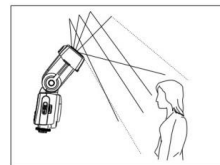
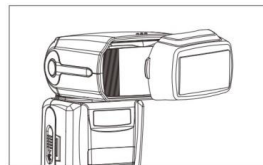


When the speedlite head pitched up and the ceiling as a reflection, we can use the simplest to get the best effect. Holding the camera and horizontal turning plate to get the same effect. Please attention: Don't use the speedlite head's flash direct shine to the body. The effective distance between speedlite head and reflection

plane about form 1 m to 2 m. When shooting colour photos, please choose white or strong reflection to flashing, Else, shoot photos will be not very good and near the reflection plane's colour.

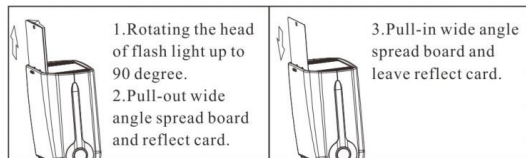
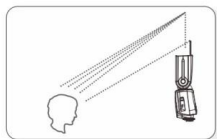
### Using the lambency to shooting

Fix the lambency shade on the speedlite. The reflect lighting will be soft fire to cause the soft light to get no shadow. It will be the same effect as any camera in level or portrait position. When the speedlite in 60 degree, it will get better effects.



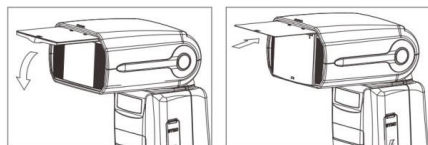
## Using built-in reflect board

When under reflection flash shooting, using built-in reflect card to make the subject more bright, sharp, and to avoid lighting in front of the subject.



## Using the built-in wide diffuser

When distance less than 2 m from camera to the subject, the wide panel to shooting to get nauter photos. Also, Built-in wide flash diffusion plate can be extended to wide-angle coverage.



## Specification

1. Circuit design: Insulated Gate Bipolar Transistor (IGBT)
2. Flash index: 54 (ISO 100, 180mm)
3. Flash coverage: 18-180mm Manual zoom, Swinging/Tilting flash head (bounce flash)
4. Flash mode: M, S1, S2, S2, Multi
5. The wireless trigger: S1/S2 induction flash
6. The Light sensor flash distance: Indoor 20-30 meters, Outdoor 10-15 meters
7. Up and down whirl angle degree: -7~90 degree
8. Left and right whirl angle degree: 0~180 degree
9. Colour temperature: 5500K
10. Flash time: 1/200 seconds ~ 1/20000 seconds
11. Flash control: 1/128 ~ 1/1 step length is 0.3EV, Total 22 fine-tuning stalls
12. Peripheral interface: Hot shoe, PC mount, External charge mount
13. Recycle time: 2.9 seconds
14. Power: 4 pcs AA alkaline cell or AA Nickel-Hydrogen (NI-MH) battery
15. Lighting time: 100-1500 times
16. Additional function: PC synchronous, Sniff mode, Over temperature protection
17. Volume: 200\*75\*57mm
18. Net weight: 375g