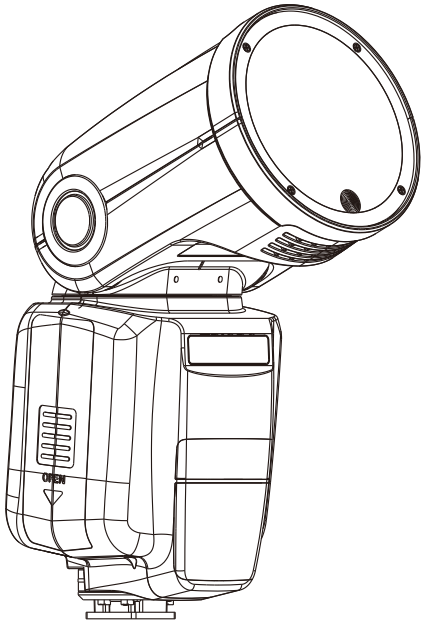
EEKOTO

Li-ion Round Head Camera Flash

USER MANUAL



Catalog

Safety instruction

Thank you for purchasing this flash unit

Please read this manual carefully before using this flash unit and use it correctly according to the given instructions.

Safety instruction

1, Never trigger the flash unit around flammable gas or liquid gas (such as gasoline and solvents)! There is the risk of explosion!
2, Neither shoot with the flash unit at drivers of cars, buses or trains, nor the rider of motorcycles or bicycles. They may be temporarily blind of the bright light which can cause traffic accident.
3, Never trigger the flash unit directly in front of your eyes! Using the flash unit 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, Remove the drained battery from the flash unit. As the alkaline liquid can exude from the battery which will damage the flash unit.
7, keep the flash unit and battery charger away from water(such as the rain).
8, Protect the flash unit from extremely hot or damp environment.
9, Do not put the flash unit in the glove box of the car dashboard. Do not put any light-proof items before or on the reflection shield when the flash unit will be triggered. Please take care that there is no direct on the reflection as otherwise the high energy that the flash unit emits, will burn the item or damage the reflection shield.
10, Never open the flash unit by yourself. There will be the danger of electric shocks. Non-professional personal cannot fix the components within the flash unit.
11, If fast continuous shooting under full light output power are done,you need to stop for 15 minutes after every 10 continuous flashes to prevent overheating.
12, If the flash unit is used in full light output with continuous repititions in combination with a zoom position of less than 35 mm,the diffuser will get hot due to high energy.
13,The quick change of temperatures might cause vapour condensations
14, Never use any defected batteries for this flash unit.

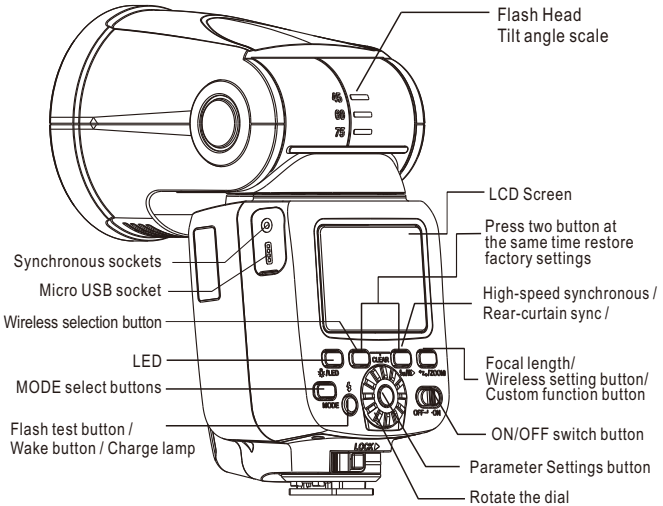
Feature

The lithium battery round head speedlite t is suitable for Canon EOS series cameras and Nikon series cameras(compatible with Canon) E-TTL(II), Nikon i-TTL system). With this flash, you will get a simpler shooting experience.In the case of complex light changes, accurate flash exposure can be automatically obtained, and the shooting is easy and easy.

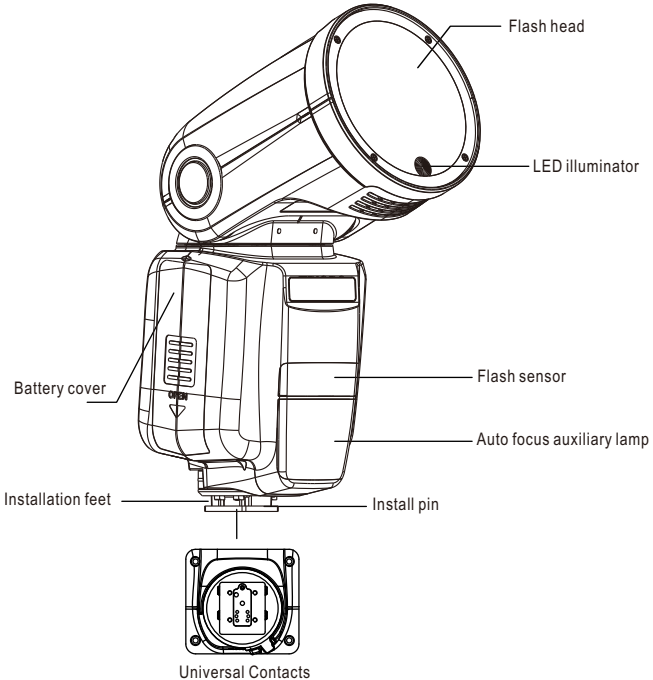
Detail

- Round reflective cup design, achieve uniform and gentle light effects, create more creative light effects. It has 2WLED modeling lights as a photogenic effect.
- The maximum flash power is 76Ws,(1/128 ~ 1/1)
- 2000 mAh high-magnification lithium battery, recycle time in 2.1 seconds, portability unparalleled.
- Compatible with Canon E-TTL II and Nikon i-TTL systems
  Supports TTL automatic flash, which can be used as a master or slave unit of a wireless multi-light flash system, making shooting easier and faster.
- Built-in 2.4 G wireless transmission.
  Transmitter and receiver in one, ultra far distance, creative infinite.
- Full function, unlimited enjoyment.
  Supporting manual and strobe flash mode, high-speed synchronization / second curtain shutter synchronization / Flash exposure compensation and other functions.
- Output stability
  High speed flash, each output brightness and color temperature continuously consistent(5600 ± 200K), light evenly distributed.
- Firmware upgrade,easy to compatible new model
  You can upgrade the software when the original camera be updated .

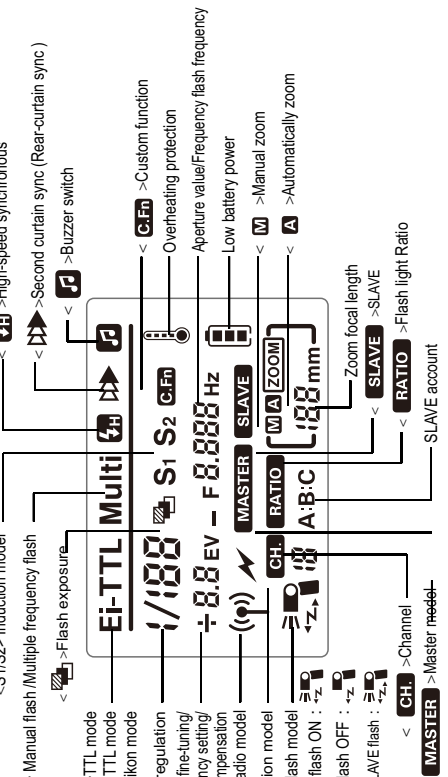
Terms


Flash Head
Tilt angle scale
LCD Screen
Press two button at
the same time restore
factory settings
Synchronous sockets
Micro USB socket
Wireless selection button
High-speed synchronous /
Rear-curtain sync /
LED
MODE select buttons
Focal length/
Wireless setting button/
Custom function button
Flash test button /
Wake button / Charge lamp
ON/OFF switch button
Parameter Settings button
Rotate the dial

Terms

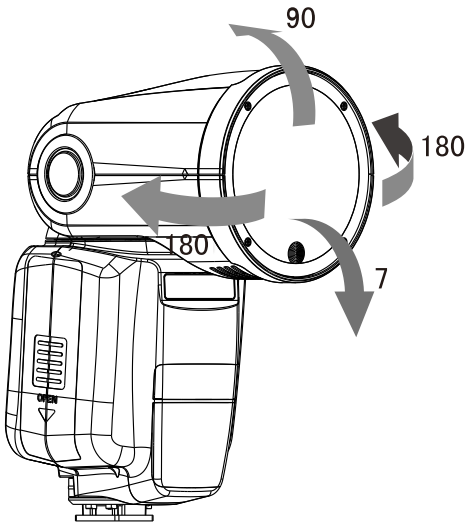

Flash head
LED illuminator
Battery cover
Flash sensor
Auto focus auxiliary lamp
Installation feet
Install pin
Universal Contacts

Terms



Auto-focus Auxiliary AF Lamp

When working under dark conditions, the Automatic AF which is positioned in the middle of the flash light,may temporary project a red light to assist focusing. If this lamp disturbs the subject that should be shooted you can switch to manual focus (M) or to custom function(Fn-08).



The speedlite can be rotated up to 90°and downward up to 7°. Furthermore a horizontal rotating form left to right and right to left by 180 is possible. Rotating the flash to the ceiling or wall can make the images look more natural.

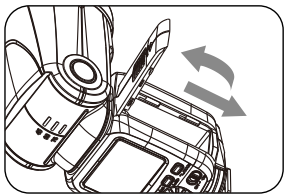
Suitable power supply

11.1V Lithium battery for 11.1V series flash. (LE-26B standard package)

* Do not short-circuit the battery positive and negative electrodes.
* Do not disassemble the battery
* Do not immersed in the water or into the fire.
* **WARNING:The light must work with the original power adapter within the product package, otherwise the product will be easily damaged.**

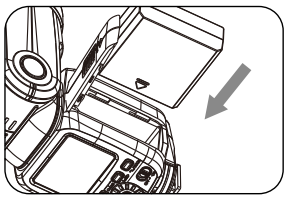
Install the battery

Installing Lithium Ion battery



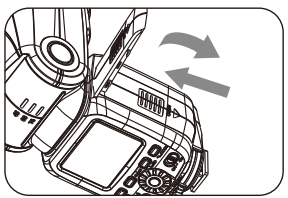
1、Open the battery cover

By Sliding it in the direction of the arrow shown and open the battery compartment



2、Install the battery

According to the lithium battery mark arrow into the battery compartment . Make sure the battery anode contact is positioned correctly .

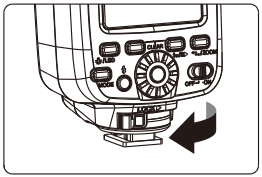


3、Closed the battery cover

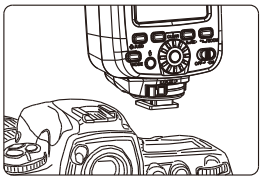
Make sure the battery is securely loaded in the flash .Check the battery level indication on the LCD panel to see the remaining the battery level

Battery level indication	Meaning
3 grids	Full
2 grids	Middle
1 grids	Low
Blink grids	Battery power will be empty and need to be charged immediately

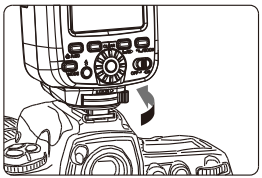
Attach the flash to the camera



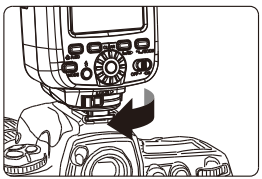
1. Prepare to install the flash unit
Rotate the locking plate up to the highest point (direction shown by the arrow)



2. Install the flash unit
Install the flash unit's mounting support into the hot shoe of your camera .



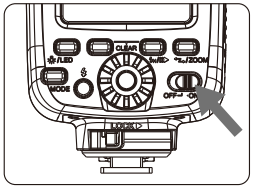
3. Lock the flash unit
Tighten the locking plate by rotating in the direction shown by the arrow



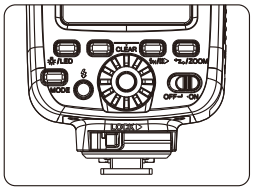
4. Detach the flash unit
Rotate the locking plate up to the highest point .than remove the flash unit form the hot shoe mount

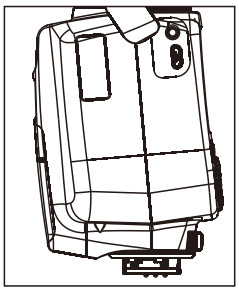
Note :Make sure that the flash unit and camera are turned off .
Do not forcibly pull out the flash unit form the camera .

Power management



Slider power button to "on" to turn on the flash and slider the button back to "off" to turn off the device .





In order to save battery power and avoid battery leakage .The default setting are :

If the flash unit is turned on . But is not used within 60 seconds .The flash will automatically go into standby .The flash can be awaken by pressing any button . If the flash unit is not used for more than 30 minutes . the flash will automatically shut down .

If the flash unit will not be used for a long period of time it is recommended to turn it off by the power switch and remove the batteries .Before removing the batteries please make sure that the flash is turned off .

If the flash unit's capacitor is fully charged , the flash key button will light up .which indicates that the flash is ready to trigger .

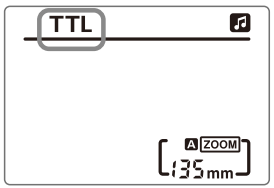
Firmware upgrading .
This flash supports firmware upgrading through the UPS port .

Common Flash mode

The flash has different modes: Full-automatic TTL Flash Mode, (M) Manual Flash Mode and Stroboscopic Flash Mode(Multi).

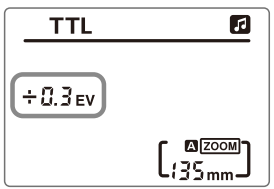
1. Automatic TTL Flash Mode

Set the camera's shooting mode to <P> (Program automatic exposure) or < □ >(Auto) if the flash should work automatically



Select the Flash Mode

Press the 【 MODE 】 button so often until the LCD shows **TTL**



Set the Flash Exposure Compensation Value. The exposure compensation can be set in stand-by mode

1. Rotate the dial to set exposure compensation: Rotate clockwise to increase the value of the compensation and rotate counter clock-wise to decrease the value.

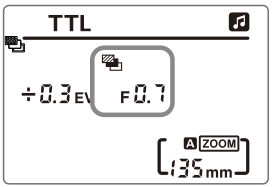
2.The compensation value has a range of -3.0EV to +3.0EV.

0EV→+0.3EV→+0.7EV→+1.0EV→+1.3EV→+1.7EV→....→+3.0EV
0EV→−0.3EV→−0.7EV→−1.0EV→−1.3EV→−1.7EV→....→−3.0EV

Flash surround exposure

By using FEB the flash exposure will be automatically changed, which helps in conditions of invariable background exposure. You can take three flash shots while automatically changing the flash output according to 1/3 to plus or minus a level 3(according to the lack of correct exposure, exposure and order of overexposed exposure(order by custom)
After the FEB is done, the flash will go back to the standard settings that have been used before.(This can be turned off in the custom setting).
For using FEB set your camera into the mode "single shot" and ensure that the flash is ready. Connect the Canon camera and set on the flash exposure value surrounded exposure.
If a Nikon camera is connected the flash exposure information will not be shown of the flash. You need to refer to the camera set.

FEB Setting Surrounded by exposure Value(Effective for Canon camera only)



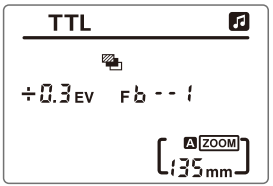
Press the "parameter setting button" to enter the setting by the current exposure value.

1.The exposure value can be adjusted by the dial. Rotate it clockwise to increase or counter clock wise to decrease the exposure value.

2.The exposure value has a range of 0 to 3.0.

3.The values are:

0	0.3	0.7	1.0	1.3	1.7	2.0	2.3	2.7	3.0

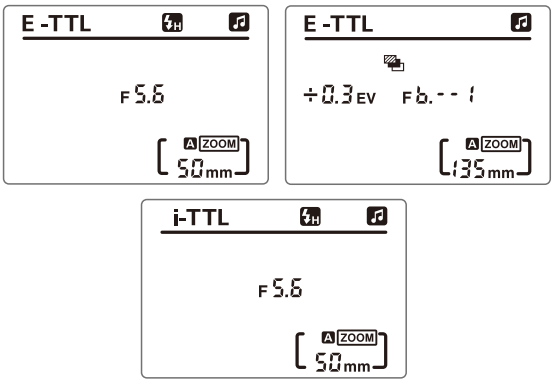


4. After set up press again the 【 Parameter Settings button 】to exit the set status. If FEB value is not "0" , as shown by the custom function can be set FEB exposure sequence.

On-line Operation(mounted on camera)

Flash TTL Mode

If the flash is connected to a Canon camera through the hot shoe, the screen of the flash will show E-TTL to represent the current metering system. If the flash is connected to a Nikon camera through the hot shoe, the screen of the flash will show i-TTL to represent the current metering system. The Nikon system does not support flash on FEB settings. To realize surrounded the exposure function on Nikon (BKT), please refer to the camera setting.



Flash Exposure Lock(FEL/FV)

The “Flash exposure lock” locks the correct flash exposure setting for any part of the scene. When <TTL> is displayed on the panel, please connect the flash to your camera correctly. For Canon cameras press the “FEL” or “*”(AEL: auto exposure lock)button.For Nikon camera press “FV” button. Then the flash will do a preflash and the camera will calculate the appropriate flash output. At this point you have time for re-composition. After finishing you can press the shutter release for shooting pictures.(This feature requires you to use the camera support itself, itherefore please refer to your camera manual settings).

Other Automatic Flash Shooting Mode

As long as you set the camera's shooting mode as (AV) or A (Aperture priority ae), the [TV] S (Shutter priority ae) or [M] (Manual), you can also use E-TTL / i-TTL flash Automatically.

TV/S	Select this mode when you want to set the shutter speed manually. The camera then automatically set the 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/A	Select this mode to manually set the aperture value. The camera is automatically set to match the aperture shutter speed to achieve standard exposure. If the background is dark(such as at night), a show sync speed will be used to obtain a standard exposure of both, the main subject and background. Use the MASTER flash for the standard exposure of your subject. Use the slow shutter background exposure standards. Since a slow shutter speed will be used for low-light scenes, using a tripod is recommended. If the shutter speed display blinks, the background 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 the aperture manually. Using the MASTER flash for standard exposure. The exposure of the background is obtained with the shutter speed and aperture combination you have yet.

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

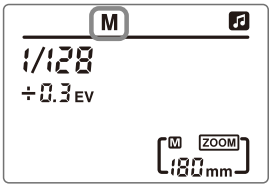
Flash Sync Speeds and Apertures Value

	Shutter Speed Setting	Aperture Setting
P	Set Automatically(1/60 sec.~1/Xsec.)	Automatic
TV	Set manually(30 sec.~1/Xsec.)	Automatic
AV	Set Automatically(30 sec.~1/Xsec.)	Manual
M	Set manually(buLb,30 sec.~1/Xsec.)	Manual

Note: The Canon camera mode: P, TV, AV, M, A - DEP, green frame <□ >
Nikon mode: P, S, A, M

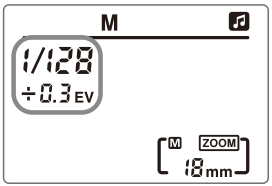
Manual flash mode M

If a manual exposure is needed, you can set the flash brightness according to your own needs. The incremental setting of the flash output can be adjusted from 1/128 to 1/1 power in 1/3 steps.



Select the flash MODE

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



Power setting

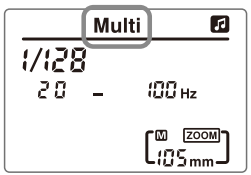
You can adjust the power of the flash output by rotating the dial clockwise or counterclockwise (increase or decrease) in the manual mode.

Icon (increase):1/128→1/128+0.3ev→1/128+0.7ev→..→1/32→..→ 1/1

Icon(decrease): 1/1→1/1-0.3ev→1/1-0.7ev →..→1/32→..→ 1/128

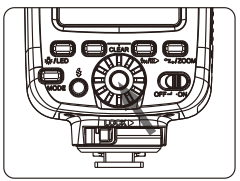
Stroboscopic Flash Mode(Multi)

To properly use the Multi mode, set the camera into M mode. If the Multi mode is used, a series of quick flash will be emitted. Therefore, several flashes can be taken in one photo. These lightning setting are often used when recording moving objects. Please set the flash output power as required, time of flash and flash frequency (every flashes time shown by Hz. Please use new batteries or a fully charged battery when this mode is used. To prevent the flash head against overheating and damage, do not use more than 10 times strobe flash burst in a row. Between two repeated exposure operation, the the flash plenty of time for callback. If you try to execute more than 10 consecutive stroboscopic flash light shots, the flash can automatically stop in order to prevent overheating. If this happens, please let the flash cool down for at least 15 minutes. Please use a new battery or fully charged battery to operate this mode.



Select flash mode

Press 【MODE】button until the LCD display shows **Multi**



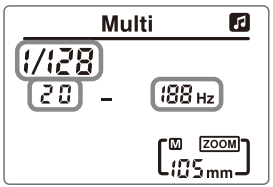
Frequency setting

Press the [parameter settings] button until the display flashes 100Hz , rotate the dial to increase(clockwise) or decrease (counterclockwise) the frequency.

The available flash frequency can be adjusted from 1Hz-199Hz.

The number of flash setting

Press the [parameter setting button] until the LCD shows 20 , rotate the dial to increase(clockwise) or decrease (counterclockwise) the number of flashes.
The flashes can be set from 1 to 40. After completion, press the [parameter setting button] to exit.



Exposure power setting

Rotate the dial to increase(clockwise) or decrease (counterclockwise) the power in multi mode.

The relational table of flash power and number of flashes						
Flash power	1/128	1/64	1/32	1/16	1/8	1/4
Number of flashes	1-40	1-20	1-12	1-8	1-4	1-2

Notes: Using stroboscopic mode there is a formula to determine the shutter speed. You can also choose a smaller or longer shutter speed. The shutter speed should be used in “B” mode of hte camera (long exposure)
Shutter speed= the number of flash / Flash frequency(hz)

LED Light

lighting mode

Press the LED modeling button for 3 seconds, and the LED modeling light will turn on or off. LED modeling lamp does not affect flash and parameter settings.
You can choose different color fliter to change the color temperature of LED.

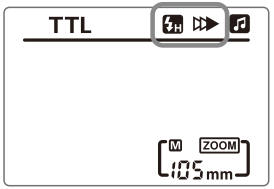
“ ” High speed synchronization “ ” Rear curtain sync

High speed synchronization

High-speed synchronous enables to have a high shutter speed synchronization with the flash and the camera. The maximum shutter speed is up to 1/8000s. When using a flash to shoot an outdoor portrait , as well as other needs under the strong light source and large aperture this is used to have excellent results.

Rear curtain sync

With a slow shutter speed a light following the subject can be created. Therefore the flash fires just before the shutter closes.



1.If the Flash Unit is used with a Canon camera under E-TTL or M mode: If you want to use the high-speed sync/Rear curtain sync function correctly, press the high speed / rear curtain / switch in TTL to enable the function.

" " High speed synchronization " " Rear curtain sync

2、If you are using a Nikon camera , you can not directly set the high-speed synchronous mode in the Flash Unit. This needs to be done by the camera which needs to be set to “FP”. When the flash is connected to the camera , the display shows immediately. For the rear-curtain sync this needs to be done in the same way as for the high-speed sync (there is nothing shown on the Flash Unit display).

Off-camera High Speed Synchronous (not mounted on camera)

Within the wireless SLAVE mode the flash can receive a high speed synchronous signal form the MASTER flash.

Note: To use the high-speed sync/Rear-curtain sync correctly the camera flash mode and shutter sped needs to be set properly.

High-speed synchronous can off the machine be achieved in two ways:

1.Wireless TTL trigger (The trigger needs to support high speed synchronous

2.Set the Flash Unit to SLAVE C or SLAVE N mode.

a.To achieve the high speed sync in SLAVE C mode, the Canon wireless instructions must be received, The built-in flash of the camera must be the MASTER flash. The maximum sync speed is only 1/200 or 1/250.
If you use a Canon camera, the camera itself does not have high speed sync, therefore you should take an extra Flash Unit which has a MASTER function and is connected by the hot shoe mount to the camera. The MASTER light will give the signal to the SLAVE light to make it off machine high speed sync.

b. To achieve the high speed sync in SLAVE N mode, you can use the built-in flash of the Nikon camera as the built-in flash has the MASTER function. Open the Auto AP function in your camera and use the built-in flash. The built-in flash will send the data only by the lamp, it does not sync in flash.

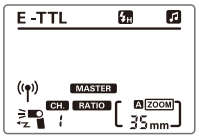
The camera menu access (only the latest Canon cameras)

The latest Canon cameras support that the flash can be operated through the camera menu. Within the flash control menu of “External flash function settings” and “External flash custom function settings” flash related parameters such as switch E-TTL mode, manual flash mode and multiple flash mode(Multi), wireless flash setting, surrounded by exposure, exposure compensation, the focal length and the function of advanced options can be set.

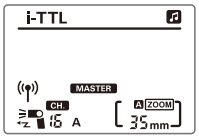
Wireless flash mode

The wireless flash system is composed by multiple wireless flashes, you can create a wide variety of lighting effects like TTL flash.ect .

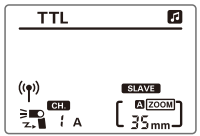
Press the [Wireless selection button] , the flash will Switch among MASTER (2.4G Canon) / MASTER (2.4G Nikon) / SLAVE (2.4G) / S1 / S2 .



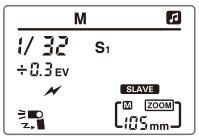
Master Canon (2.4G) model



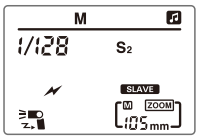
Master Nikon (2.4G) model



SLAVE(2.4G) mode



S1 mode



S2 mode

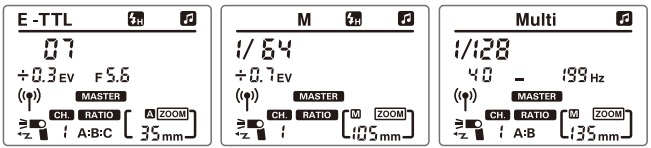
Note:

1. In wireless slave flash mode , 2.4G wireless slave mode can change slave mode and parameters, Under infrared control mode Press Mode button can not change mode . Connecting flash light to camera, press the shutter, the flash light will not be connected to the camera, you need to exit wireless slave mode,then you can change mode and connection with camera.
2. In the wireless slave flash mode, the focus indicator flashes and can be turned off by turning off the focus assist lamp and exiting the wireless slave mode. When you need to use the focus lamp, you need to turn on the focus assist lamp again.
3. Wireless slave flash mode. The system does not support 60 seconds into sleep.

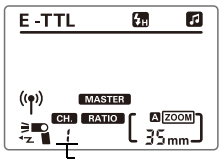
2.4G wireless master mode (Canon)

Wireless master control mode (wireless 2.4G MASTER)(Canon)

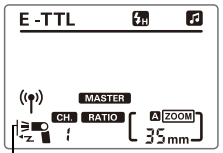
Press 【 Wireless selection button 】 to display the 2.4G master mode "MASTER" to the LCD screen.



Wireless setting



Wireless Channel number



Master control flash on/off

Master control wireless channel setting

Press【 Wireless setting】button to the channel number (serial number under the icon) to flash, Rotate the dial to set the wireless channel form 1 ~ 16.

Set the master unit flash On / Off

You can disable the master unit flash so that only the slave unit's flash is involved in the exposure.

Setting the master flash: Press the【 wireless setting 】button unit icon flashes, Rotate the dial to set the master flash output.

The icon is displayed as when the master flash is turned off

The icon is displayed as when the master flash is turned on

Note:

In the Master mode, the slave unit mode is same as in master mode

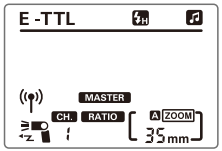
In the master mode, the power of group A is the same as Master control unit.

In the master mode ,support high-speed synchronization, does not support rear curtain sync.

2.4G wireless master mode (Canon)

Full Auto Wireless MASTER Model(Wireless 2.4G MASTER) (Canon)

Press 【 flash mode select button 】 on the Master flash , There you can set the Master light as Auto E-TTL Mode to Auto flash shooting .



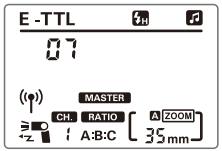
1.Press【MODE】button to set E-TTL mode

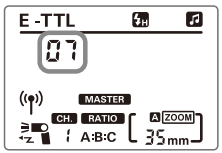
2.Press the【Wireless setting 】 button to < RATIO > flashing.

3.Select the flash light ratio

Rotate the dial to set the flash light ratio, flash light ratio as <RATIO>, RATIO A: B> or <RATIO A: B C>. Select the flash light ratio as <RATIO>, this means three slave unit groups will have the same bright output as the master, and exposure compensation and bracketing can be set;Select the flash light ratio for <RATIO A: B> to turn on the A / B group flash and set the AB output brightness ratio.

Select the flash light ratio <RATIO A: BC> that the three sets of flash are turned on and can set the AB output brightness ratio And Group C power compensation.





4.Set the flash light ratio

Press the [Parameter Setting] button to <RATIO A: B> and the flash light ratio twinkles, Rotate the dial to set up the flash light ratio and all kinds of code as shown in the table.

Flash light ratio code and flash light ratio table													
Code	01	02	03	04	05	06	07	08	09	10	11	12	13
Flash light ratio	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

5.Set Group C exposure compensation（<**RATIO A:BC>**）

Press the [Parameter Setting button] to<C> and group C exposure compensation twinkles, If the setting is done ,Please press the [Parameter Setting button] again to confirm and quit .

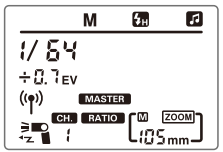
If set<RATIO A: B> the slave unit of group <C> will not twinkle

If the slave unit of group C directed towards the subject . The subject will be excessively exposed .

2.4G wireless master mode (Canon)

M Wireless MASTER mode(Wireless 2.4G MASTER Canon)

Press the 【 Flash mode select button 】 to set the MASTER light as M mode . You can set up each Salve unit in different flash light ratios .Use the MASTER unit to finish all settings (Slave unit and MASTER unit is the same)



1.Press the【flash mode select button】to set M mode.

2.Press down the【Wireless setting button】unitl < RATIO > twinkles .

3.Select flash light ratio

Rotate the dial to set the flash light ratio: <RATIO>, <RATIO A: B> or <RATIOA: B: C>. Select the flash light ratio<RATIO> this means three slave units will take the same mode and power output with the Master.Press M mode to set the power output . Select the flash light ratio <RATIO A: B> this means group A/B will flash and the power output of flashes in group A/B will be adjusted on the single flashes .Select the flash light ration <RATIO A: B: C>.This means three groups are all on and the power output can be adjusted on all single flashes .

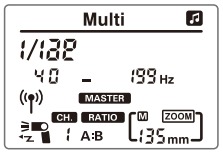
4.Set the flash output （<RATIO A:B>or <RATIO A:B:C>）

Press 【 Parameter setting button 】until SLAVE account <A> and group A power twinkles, Rotate the dial to adjust group A power .
Press 【 Parameter setting button 】until SLAVE account <B> and group B power twinkles, Rotate the dial to adjust group B power .
Press 【 Parameter setting button 】until SLAVE account <C> and group C power twinkles, Rotate the dial to adjust group B power .

2.4G wireless master mode (Canon)

Multi Wireless MASTER mode(Wireless 2.4G MASTER Canon)

Press the 【 Flash mode select button 】 to set the MASTER light as Multi mode .You can set up each Salve unit in different flash light ratios .Use the MASTER unit to finish all settings (Slave unit and MASTER unit is the same)



1.Press the【flash mode select button】to set Multi mode.

2.Press down the【Wireless setting button】unitl < RATIO > twinkles .

3.Select flash light ratio

Rotate the dial to set the flash ratio: <RATIO>, RATIO A: B> or <RATIO A: B C>.
Select the flash light ratio <RATIO>, this means three slave units will take the same mode and power output as the MASTER unit .Press Multi mode .Set the power output .Frequency and number of flash time,Select the flash light ratio <RATIO A: B>.This means group A/B flashes and the power output needs to be set for each single flash of the group .Select the flash light ratio<RATIO A:B:C>, This means three groups are all on and will flash , But the power output needs to be adjusted for each single flash .

4.Set the flash frequency

Press the [Parameter setting button] until flash frequency twinkles , Rotate the dia set flash frequency.Available flash frequency is 1-199Hz.
After Set the value and then press the [parameter settings button] to set the flash times, or 5 seconds after the operation automatically save and exit.

5.Set the times of flash

Press the [Parameter setting button] until flash time twinkles, rotate the dial to set the times of strobe flash. The available times is 1-40.
When the flash ratio is set to <RATIO OFF>, the maximum number of strokes is limited by the flash output power. When the flash ratio is <RATIO A: B> or <RATIO A: B: C>, the maximum times of strokes is limited by the output power of group A.

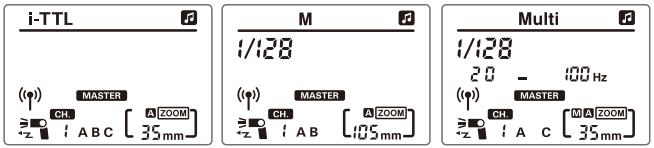
6.Set the flash output (＜RATIO A:B>or<RATIO A:B:C>)

Press the [Parameter setting button] until the frequency value twinkles, rotate the dial to adjust the frequency.
Press the [Parameter setting button] until the flash time twinkles, rotate the dial to adjust the number of times .
Press 【 Parameter setting button 】until salve account A and A power twinkles. Rotate the dial to adjust the power of group A .
Press 【 Parameter setting button 】until salve account B and B power twinkles. Rotate the dial to adjust the power of group B .
Press 【 Parameter setting button 】until salve account C and C power twinkles. Rotate the dial to adjust the power of group C .

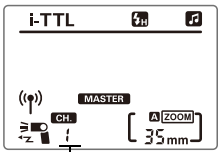
2.4G wireless master mode (Nikon)

Wireless MASTER control mode (wireless 2.4G MASTER) (Nikon)

Press【 Wireless setting button 】to display the 2.4G wireless master mode "MASTER" to the LCD screen.



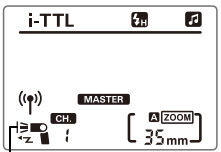
Wireless setting



Wireless channels number

Set the MASTER unit wireless channel

Press【 Wireless setting button 】to channel number (serial number under the icon) to twinkles, rotate the dial to set wireless channel (1-16).



Master flash switch symbol

Set the MASTER unit flash ON/ OFF

You can disable the master unit flash, so that only the slave unit's flashes

Set the MASTER unit :Press the [Wireless setting button] to the icon twinkles, rotate the dial to sets the Master flash output.

The icon is displayed as means master flash is turned off

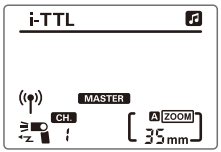
The icon is displayed as means the master flash is turned on

Note: When Nikon as MASTER control unit, you can freely set the mode and power of each slave unit group.

2.4G wireless master mode (Nikon)

Automatic wireless / manual master mode (wireless 2.4G MASTER) (Nikon)

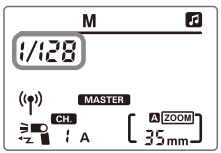
When master unit is in the 2.4G wireless TTL mode or M mode, the slave unit supports the "wireless off , TTL mode and M mode" three mode settings.



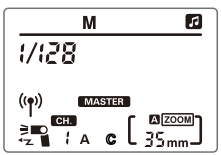
1.Press 【MODE】 key to set the master unit to auto i-TTL mode or manual M mode.

2.Each slave group mode setting

GROUP A:Press 【 Wireless setting button 】 to <A> and group A current mode power twinkles . Rotate the dial to change the A group mode, switch among "Wireless Off", "i-TTL", "M". Press [Parameter Setting button] to exit or continue Press the [Wireless Setting button] to set the B group mode.



GROUP C:Press【 Wireless setting button 】to <B> and group C current mode power twinkles . Rotate the dial to change the B group mode, switch among "Wireless Off", "i-TTL", "M". Press [Parameter Setting button] to exit or continue Press the [Wireless Setting button] to set the C group mode.



GROUP B:Press【 Wireless setting button 】to <C> and group C current mode power twinkles . Rotate the dial to change the B group mode, switch among "Wireless Off", "i-TTL", "M". Press [Parameter Setting button] or [Wireless Setting button] to exit .

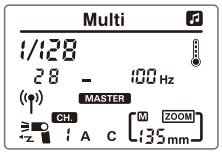
When the slave flash group set is done , The group that turns on the wireless flash mode is displayed on the LCD and the group that turns off the wireless is not displayed.

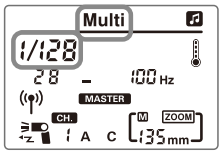
3.Each Slave unit group power setting

Press【 Parameter setting button 】to <A> and group A power twinkles (assuming group A turns on wireless mode) to power settings, The setting way is same like wireless off ,After set is done press【 Parameter setting button 】enter into next group setting .

2.4G wireless master mode (Nikon)

Multi Wireless Master Mode (Wireless 2.4G MASTER) (Nikon)





1.Press the [MODE] button to set the MASTER unit to Multi mode.

2.Each Slave unit group mode setting

Group A:Press the 【 Wireless setting button 】 to <A> so that the group A mode power twinkles. Rotate the dial to change group A mode between "Wireless Off" and "Multi" modes. If the setting is done ,Press the [Parameter setting button] to quit or Press [Wireless setting button]go I nto group B setting .

Group B:Press the 【 Wireless setting button 】 to <B> so that the group B mode power twinkles. Rotate the dial to change group B mode between "Wireless Off" and "Multi" modes. If the setting is done ,Press the [Parameter setting button] to quit or Press [Wireless setting button]go into group C setting .

Group C: Press the 【 Wireless parameter setting button 】 to <C> so that the group C mode power twinkles. Rotate the dial to change group C mode between "Wireless Off" and "Multi" modes. If the setting is done ,Press the [Parameter setting button] or [wireless setting button] to quit .

If the slave flash light group setting is done .It can be turn on or off :
ON : The wireless flash model group number will be shown on the display
OFF:The Wireless flash group number won't be shown on the display .

3.Set the flash frequency

Press the [Parameter setting button] until flash frequency twinkles ,Rotate the dial to set the flash frequency.Available flash frequency is 1-100Hz. If the value is set done . press the [parameter settings button] to set the times of flash, or 5 seconds after without operation automatically save and exit.

4.Set the times of flash

Press the [Parameter setting button] , Rotate the dial to set the flash times ,The available flash time is 1-40.

5.Set flashing power

In standby mode, Rotate the dial sets the flash power, setting mode and the times of flash relationship table, refer to the strobe flash mode

Wireless Slave Mode (Wireless 2.4G SLAVE)

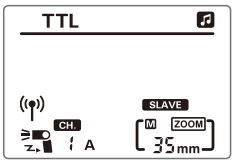
You can create 1 to 3 slave units and set the channel for the slave unit. When there are multiple slave units, make sure that the slave unit's channel matches the master unit channel.

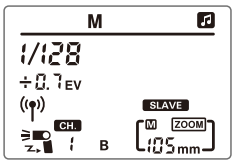
Slave unit parameter setting

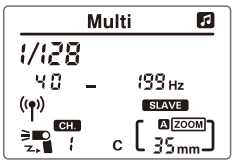
Press [Wireless setting button] until the LCD shows 2.4G SLAVE mode.

1.Set the slave unit channel: Press the [ZOOM / Wireless setting button] to the CH. icon twinkles , rotate the dial to set the desired channel (1-16).

2.Set the slave unit group: Press the [ZOOM / Wireless setting button] to the group icon twinkles, rotate the dial to set the desired group(A, B, C)







Note: pressing the [MODE] button you can change the mode, power, focal length, frequency, and frequency parameters. As the slave light in the flash system, its mode, parameters, and focal lengths are received from MASTER flash settings

Note: Receive signals from the wireless transmitter to achieve off-line E-TTL / II, I-TTL, manual, strobe flash, support high-speed synchronization.

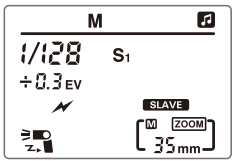
Wireless optical flash mode (S1/S2)

If the S1,S2 mode is used rotate the flash lamp so that the signal transmitter is pointing toward to the MASTER flash unit .

1.Setting optical flash mode

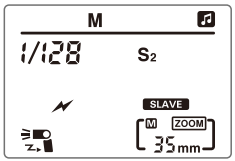
Press the [Wireless selection button] until S1/S2 mode is shown on the display .In wireless flash mode . These two modes are suitable for the side effect of the machine , to create a variety of lighting effects. They are suitable for manual flash and TTL flash.

2.In these two modes, the output brightness is adjusted as in the M mode



S1 mode:

This mode suitable for manual flash environment,It will sense every flash of the main flash and will trigger synchronous flashes.It is used for wireless flash ,You master flash should be set in the manual flash mode and should neither use preflash TTL flash system . Nor multiple flash red-eye reduction function .



S2 mode:

This mode is suitable for TTL flash mode, also known as "pre-flash cancel mode, as this mode can ignore the preflash TTL and synchronizes with the main flash , so you can support the Master flash in TTL mode .

Note : If the SLAVE light doesn't sync flash with the Master flash light in S1/S2 mode , Please set the optical mode of SLAVE light and power output correctly .

Please avoid the following situations mentioned below :

1.Avoid Master light to use red eye reduction function
2.Avoid Master light to use mode lamp .
3.Avoid Master light to use Instruction mode (Nikon) or wireless mode (Canon)
4.Avoid Master Light to use ST-E2 and the vice factory master flash as a flash controller .

Multi lighting Application

The master flash controls slave flash to trigger flash, Please set the master flash(MASTER mode)and slave flash(SLAVE mode)at the same channel and group, the flash can be only triggered.

1、Wireless 2.4G lighting

You can create two or three slave units to complete the Multi-position shooting requirement . And by the Main TTL auto flash shooting the flash set the flash ratio Ratio.manual flash output and strobe output .

(1)Flash light compose two slave unit groups' wireless flash .

Set the wireless option: SLAVE（2.4G)

Set the communication channel: 1~16

Setting group : two flash light setting group A.B.

Setting Master unit: setting the communication channel: setting the flash light ratio: A:B or A:B:C can be used for flash shooting (take Canon as an example)

(2)Flash light compose three SLAVE unit group's wireless flash .

Setting wireless options: SLAVE（2.4G）

Set the communication channel: 1~16

Set the grouping: Set the three flash units to A, B, and C respectively

Set up the main control unit and take photos

Set up the communication channel: Set the flash light ratio of the main control unit to <A:B:C> (take Canon as an example)

Press the test button of the main control unit to test whether the flash is normal or not. If the slave unit does not flash, check that the communication channel and group of the flash master unit are identical.

Note: If main control unit set the <RATIO A:B> .then <C>group slave unit not flash .If the grouping of the three flash units is set to <A>, they will be controlled by the master as a flash for the slave unit group.

Multi-lamp light application

2、Wireless optical lighting instructions

You can create two or three slave units to achieve multiple shooting requirements. And by the main control flash set TTL automatic flash shooting of flash light ratio, manual flash output, Multi and so on.

Due to a higher sensor sensitivity the wireless trigger sensing does have a distance of up to 15 meters when using the S1 or S2 mode outside .If a slave flash unit is used,test the S1 or S2 mode whether it is synchronous before shooting .

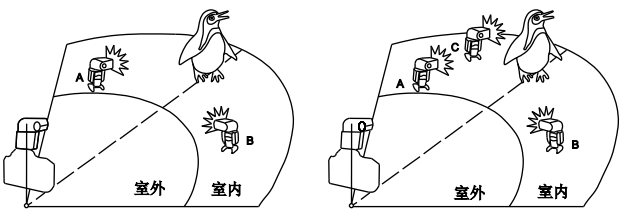
Note:Don't put any barriers between the master and slave flash unit .The barrier will prevent to send a wireless light signal.

Make sure that the optic control sensor is towarded to the master flash unit . the flash unit is not to be used under sunshine .

Bounce flash

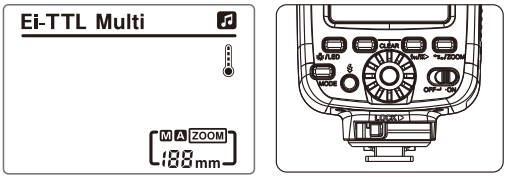
If the flash head is pointed to the wall or ceiling ,.The flash will be reflected by the wall ,If this is illuminating then the subject,This can help to reduce shadows around the subject and get more natural effects .

Set the position and operating range:



Voice prompts

Different sounds are used to indicate different working conditions.



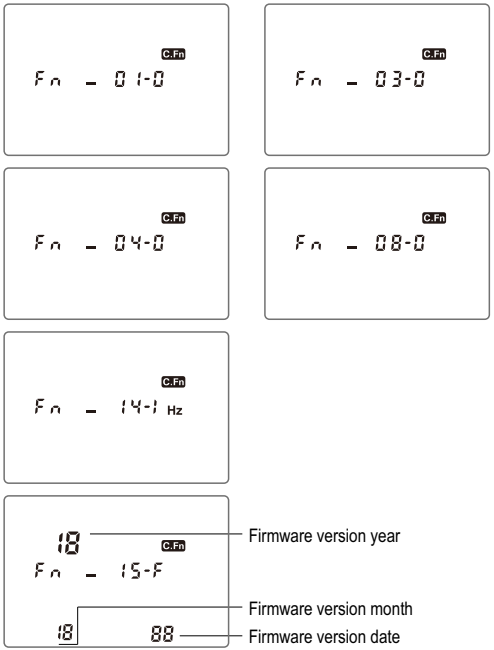
Press the [custom function button] for a longer time to enter the customer setting ,The signal tones can be switched ON or OFF .

1.A long ring: call back to complete
2.Two short rings: on or call back to complete normal flash .
3.Two long rings: flash call back unfinished
4.Five short rings: the battery power is not enough or call back timeout .
5.Continuous buzz: flash light overheating and come into overheating protection
The display will show the icon .

Backlight display

1.ON/OFF: Press the backlight button to turn it on or off .
2.After the flash is not used for 15 seconds ,the backlight will go off automatically.

Custom Menu setting



Custom Menu settings

You can set up the flash function according to your own shooting preferences.
Custom function settings: Press the【custom function button】for a longer time and the display will show the parameter setting as seen before .
Press the [parameter setting button] to select the setting that needs to be turned ON or OFF .Rotate the dial to set them ON or OFF .Then press the【Mode flash select button 】to quit .

Custom Menu setting

Custom function number	Function	Setting number	Settings and instructions
Fn-01	Auto Sleep	0	ON
		1	OFF
Fn-03	Auto Cancel flash exposure	0	ON
		1	OFF
Fn-04	Flash exposure order	0	0→ - → +
		1	- → 0→ +
Fn-08	Auto focus assistant flash	0	ON
		1	OFF
Fn-14	Buzzer Switch	0	ON
		1	OFF
Fn-15	System version information	F	Firmware date

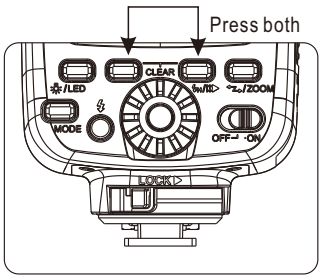
Note: FN number of 00-13 options can be accessed through the camera menu of External flash custom function settings ,The numbers for :00, 02, 05, 06, 07, 09, 10,11, 12, 13 option has been disabled (Internal Canon cameras menu).

Automatic Save Function

After flash has been set up .But for 5 seconds no buttons are pressed ,the flash will automatically save the current settings .It is convenient for next time operation.

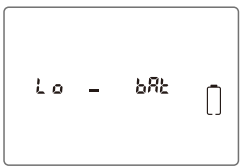
Reset All setting to factory default settings

When you need to restore the factory default settings, simply press the wireless select button & high-speed/ rear curtain/ common flash button at the same time, and the flash restores the default setting.



Flash lock (low Power Tips)

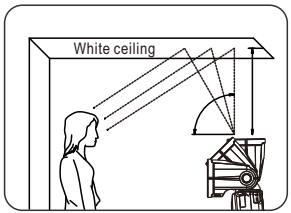
When the battery power is low or other reasons cause flash can not complete the flash charging in the limited time, the flash will enter the locked state, while the screen is shown as picture, and the buzzer rings five short beeps, to remind the user to replace the battery in order to ensure the normal use, if you changed with full-charged batteries, the flashlight can not recycle in a limited time (20 seconds complete) , please contact customer service to apply for repair.



Bounce flash

If the flash head is pointed to the wall or ceiling ,the flash will be reflected by the wall .If this is illuminating then the subject ,this can help to reduce shadows around the subject and get more natural effects .

Adjust the flash head tilt, rotation angel and select the reflection plane .



If the flash units head is pitched up so that the ceiling is sued as a reflection plane. this can have a good effect ,
PIs pay attention : don't let the flash unit head directly shine to the body of a person. The effective distance between the flash unit head and the reflection plane should be about 1m to 2m.If color photos are taken, Please choose a white or strong reflection for flashing .Otherwise the photos might be of poor quality .

Specification

Model	Speedo
Compatible camera	Canon · Nikon
Power(1/1 step)	76WS
Range	·18-180mm ·Auto zoom(auto setting of flash coverage appropriate to lens focal length and image size) ·Manual zoom ·Flash head rotated / tilted, horizontal 0-360 °, vertical -7 ° -90 °(reflected flash) 1/360秒-1/230000秒
Flash duration	1/360s-1/230000s
·Exposure control	
Exposure control system	Automatic flash, manual flash
Flash Exposure Compensation(FEC)	Manual, Flash surround exposure: Incremental adjustment of 1/3 step between ± 3 step(you can use a combination of manual exposure compensation and flash surround exposure)
Synchronization Mode	High Speed Synchronization(Up to 1/8000 Seconds), Front Curtain Synchronization, Back Curtain Synchronization
Multi flash	Number of flash: 40: 199Hz
·Wireless (radio 2.4 G transmission)	
Wireless function	Master unit, Slave unit, off
Master Unit Group	A,B,C
Slave unit group	A,B,C
Transmission range(approx)	50m
Channel	Group:01-16
·Autofocus auxiliary light	
Valid Range(approx)	Cetner ：0.6-10m/Edge：0.6-5m
·LED model light	
Power(1/1 step)	2W
Colour temperature	3300K±200K
·Power supply	
Lithium	11.1V/2000mAh lithium battery
Recycle time	Approx 2.1 seconds, Flash light in ready, blue LED indicator light on
Full power flash times	Approx 500 times
Save power	The flash light will automatically turn off the power in 90 seconds when no one operates. Set to slave power supply 60 minutes into hibernation.
·Synchronous trigger mode	Hot shoe, 2.5 mm Synchronous cord
·Color temperature	5600±200K
·Size	
Volume	76*76*205mm
Weight(without batteries)	450g
Weight with battery	575g