YONGNUO
DIGITAL

热靴闪光灯
SPEEDLITE
YN860Li

使用说明书
INSTRUCTION MANUAL

在使用本产品之前，请通读本手册，以确保您能正确、安全使用，然后保存好本手册以便将来查询参考。

Before use,please read this user manual carefully in oder to ensure your safety.Keep it properly for reference in the fure.

⚠ Precaution

To avoid fire or electrical shock, do not expose this product to rain or moisture.
To avoid short circuit, please make sure the batteries contacts are securely packed and use the battery in accordance with the local provisions.
Please place the batteries and the parts which can be swallowed mistakenly away from children. If swallowed, please get medical help immediately.
To avoid any possible injury to eyes, do not use the flash in a short distance from the eyes.
To avoid any possible safety accident, do not use the flash on the people focusing attention.
Please take out the batteries and stop using this product immediately in case of the following situation:

- **This product is dropped or shocked seriously and the inner part of this product is bared.**
- **Wear gloves and take the batteries out if the corrosive liquid inside the batteries leaks.**
- **This product gives off strange smell, heat or smokes.**

Do not dissemble or maintain this product because the internal high voltage circuit may cause the electric shock.
Please take out all the batteries if this product is not used for a long time.

Features

- **Adopts lithium battery power supply design, ultra-fast charging recycle system**
- Equipped with 1800mAh lithium battery, recycle time is only 1.5s, flash firing times of full output is over 700.
- **Supports radio transmission master control, realizes 6-group flash control function easily.**

As master unit,YN860Li is equipped with 6-group flash control function ,which supports remote control of flash mode, flash output, focal length, stroboscopic times and stroboscopic frequency of YN860Li/YN560III/YN560IV/YN660/YN968N

- **Supports Radio Transmission Slave Function**

As slave unit,YN860Li can receive the control and trigger signal from YN860Li/YN560IV/YN660/YN560-TX(II)/RF603 (II)/RF605/RF-602,and realizes M/Multi flash.

- **High Guide Number**
- Gn60@ ISO100,200mm,supports manual and Multi flash.
- **Supports Lamp Head Electric Zoom Function.**
- Supports manual zoom, you can set flash coverage in the range of 24~200MM.
- **Supports USB Firmware Upgrade**
- Equipped USB interface, supports firmware upgrade, please visit YONGNUO official website to download firmware upgrade package to upgrade the flash.
- **Supports S1,S2 preflash avoidance trigger mode**
- **Supports auto-save setting, custom functions setting(C.Fn)**
- **Equipped with LCD screen, standard PC port, sound prompt system.**

Quick Start

If you don't have much time to read the whole user manual, we advise you to read this section.

1.Please avoid the excessive use of the output with maximum power. It can effectively extend the service life of this product. (It is recommended that the speedlite should be idle for more than 10 minutes when entering the overheat protection).

2.Short press [⇆/CH]to switch to various trigger modes, including on-camera/radio transmission master control/radio transmission slave /optical transmission slave (S1 or S2)mode,in the mode of radio transmission mode, long press this button for channel setting.

3.Press [**MODE**] to set flash mode:M/MULTI

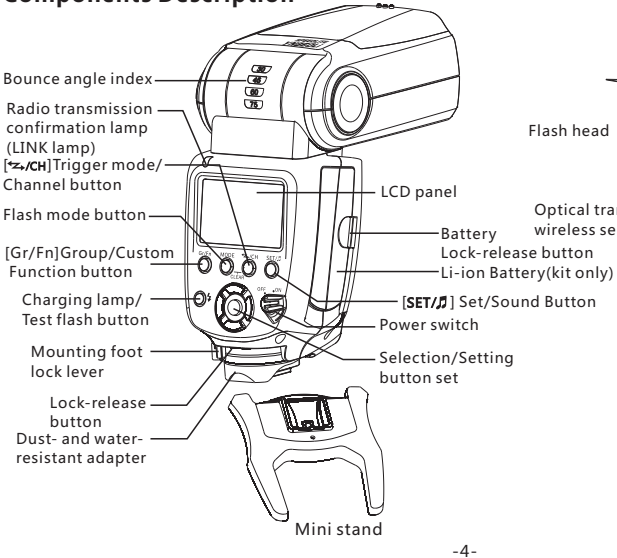
4.In the master control mode of radio transmission, press [Gr/Fn]to switch to various groups,the setting of master unit setting is the same as that of group A .

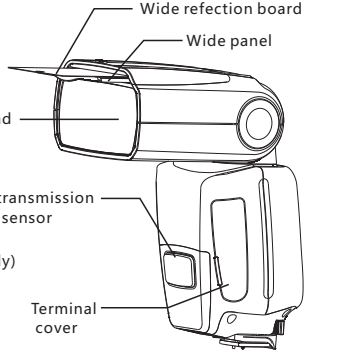
5.Short press function button [SET/♫] to enter focal length settings, flash frequency and flash times settings in the stroboscopic mode. Long press this button to turn on/off sound prompt.

6.According to the wireless flash trigger model used,user can set the radio signal at RF603 or RF602 through the custom functions setting.

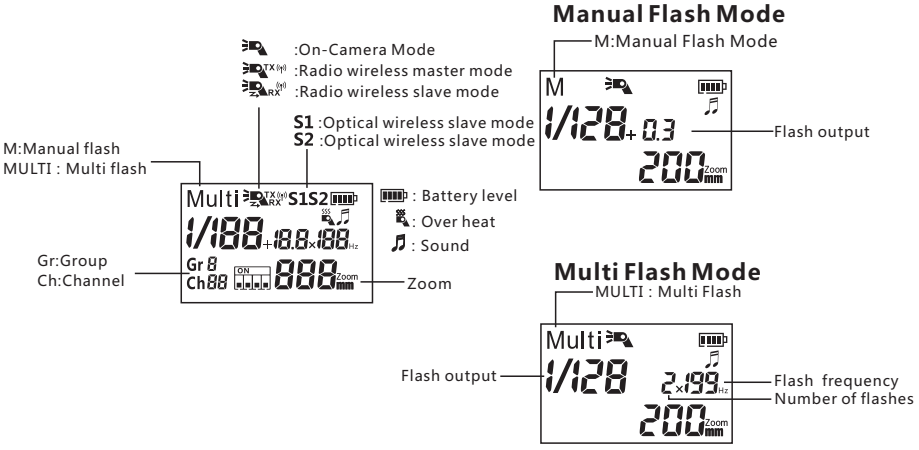
7.Press [**MODE**] and [⇆/CH] and hold together to restore the setting of flash shooting and wireless shooting to default regular on-camera mode.

Components Description





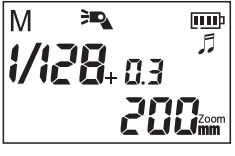
LCD Panel


:On-Camera Mode
:Radio wireless master mode
:Radio wireless slave mode
S1 :Optical wireless slave mode
S2 :Optical wireless slave mode
M:Manual flash
MULTI : Multi flash
Multi
S1S2
1/188
+18.8
188
Hz
Gr 8
Ch88
ON
888
Zoom
mm
: Battery level
: Over heat
: Sound
Gr:Group
Ch:Channel
Zoom
Manual Flash Mode
M:Manual Flash Mode
M
1/128
+ 0.3
200
Zoom
mm
Flash output
Multi Flash Mode
MULTI : Multi Flash
Multi
1/128
2.99
Hz
200
Zoom
mm
Flash output
Flash frequency
Number of flashes

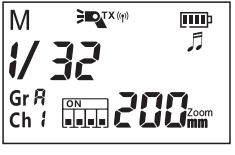
LCD Panel

Short press [ ]button to switch the mode to on-camera,radio transmission master control,or radio transmission slave,long press this button to switch to S1/S2 of optical slave mode.In on-camera and master control mode,the LCD backlight is on in green,in slave mode,LCD backlight is on in orange.

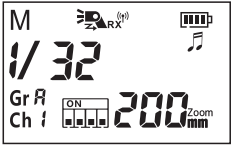
:On-Camera Mode



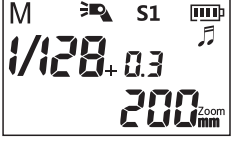
TX :Radio wireless master mode



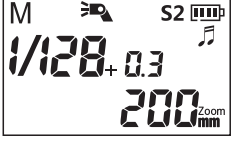
RX :Radio wireless slave mode



S1 :Optical wireless slave mode



S2 :Optical wireless slave mode

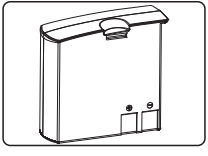
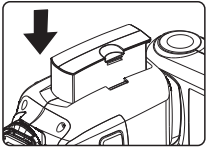
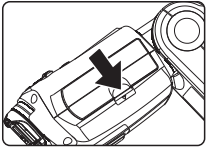
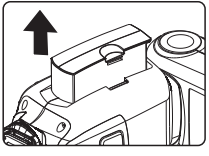


Installation Instruction

1.Install Battery And Take Out Batteries

According to the picture, insert the lithium battery fully into the battery compartment ,the battery will be installed when a 'click' sound comes out from the battery locking lever.

For taking out the lithium battery, turn the battery locking lever according to the direction of arrow, the lithium battery will be popped out automatically.

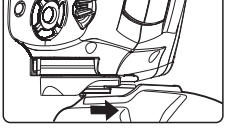
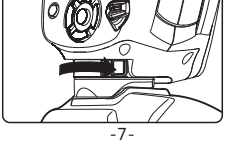
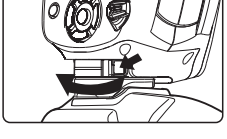





2.Attaching to the Camera & Detaching

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

Slide the mounting foot lock lever to the right side as the arrow shown, until heard the "clicks" sound.

To detach the speedlite, press the **[lock-release button]** and slide the **[Mounting foot lock lever]** to the left side, then detach the speedlite.

Basic Functions

1.Button Operation

[ON/OFF] button	Turn to "ON"、 "OFF" to turn on or turn off the power source of the flash.
[MODE] button	Short press this button to cycle among M、MULTI、 --NO Flash (only in radio transmission master control mode), .
[/CH]trigger mode/radio channel button	Short press this button to switch in sequence among flash trigger modes including on-camera, radio transmission master control, radio transmission slave, optical transmission slave (S1,S2),in radio transmission mode, long press this button for channel setting.
[Gr/Fn]button	In radio transmission master control or slave mode, short press this button to switch to different groups, long press this button for custom functions setting.
[SET/♫]Setting /Sound buttons	Short press this button to set focal length, stroboscopic times, stroboscopic frequency, long press this button to turn on or turn off sound prompt.
[Selection/Setting button set]	[Left][Right][Up][Down]and [OK]button in the middle. Press these buttons to set flash output, output fine-tuning,times of stroboscopic flash and flash frequency, custom functions, focal length,channel.
[TEST] button	Test flash or wake up the speedlite

2.Meanings of Indicator Light

Status of [Link] lamp	Meaning
The green light lit	Radio transmission communication status
The red light is lit	Send or receive trigger instructions.

3.Display Backlight Color

Color	Meaning
Green	On-camera or master control flash mode
Orange	Slave flash mode
Red	Flash enters overheatprotection state

Basic Functions

4.The meaning of [Sound Prompt]

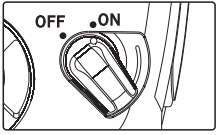
The sound form	Meaning	Scope of Application	Operation
Tick twice	Power on/the sound indicator is enabled sound switch turns on/flash OK	Flash OK only slave mode indicates	Normal
Tick tick tick	The charging has not been completed	Slave mode only	Wait for completion of charging
Tick-a long sound	The speedlite is fully charged, and can be used	Slave mode only	Normal
Continuous and quick ticks	Low battery, the speedlite is about to shut down	All modes	Replace the batteries
Tick-Tick tick tick tick	Overheat protection prompt	All modes	Waiting for completion of charging, idle 10 minutes for overheat released.

5.Grouping display status and meanings of radio transmission TX master mode and RX slave mode

Grouping display status	Meaning	
	TX master flash mode	Rx slave flash mode
GR A	User can set the flash mode, output and focal length of **master unit** and off-camera flash in group A.	The unit used as a slave flash unit in Group A
GR B/C/D/E/F	Through master control unit, user can set flash mode, flash output, focal length of speedlites in group B/C/D/E/F respectively.	The unit used as a slave flash unit in Group B/C/D/E/F

Basic Functions

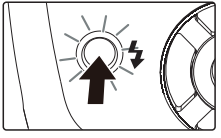
6.Power-on and Power-off



Set the power switch to **[ON]** position, the speedlite will turn on and start charging.

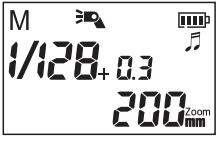
After turned on, the **[Charging lamp]** will bright with red light which indicates it can flash. After use, set the switch to **[OFF]** position to turn off the power source.

7.Test Flash



When the charging lamp turns red, you can test the flash is normal or through the **[TEST]** button.

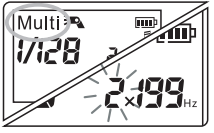
8.M Mode



In M mode, you can set the flash output as your requirement and adjust the flash output though [left] [right] button. The adjustment range of flash output is 1/128~1/1.The output can be divided into 8 grades, and each has 1/3 EV as adjustment increment by [up] [down] button. When shooting, you should just set the flash out, the speedlite will flash with the sync signal from the camera.

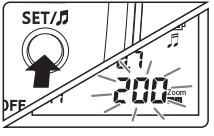
Basic Functions

9.Multi Mode



Multi mode, the speedlite will flash according to the flash output, flash frequency and number of flashes you set. Use [left][right]to adjust output power. The adjustment scope of output level is 1/128-1/64-1/32-1/16-1/8-1/4. To adjust times of flash and flash frequency, please press [**SET/♫**] first to enter focal length setting menu, then press [**SET/♫**] again to select the item (blink) to be set, at this time, user can adjust times of flash and flash frequency.

10.Manually set the Zooming position



Short press function button [**SET/♫**],then press [up] [down] [left] [right] button to adjust coverage, user can adjust the flash coverage (24,28,35,50,70,80,105,135,200mm)manually.

11.Overheat protection

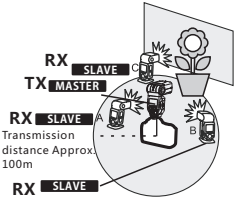
When continuous flash, the temperature of the flash head may increase, a warning icon [ ] icon will be displayed on LCD panel, and the recycling time will be longer.

When repeated firings of the flash, the overheat protection function will be triggered, the LCD is lighting in red, the speedlite will be locked ,in such case, please wait for about 10 minutes before continuing use.

When the speedlite warns overtieating, please reduce the use intensity.

Wireless flash shooting: Radio transmission

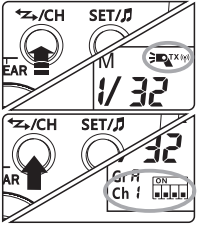
When YN860Li is used as master unit, it can remotely alter flash mode, output, stroboscopic times, stroboscopic frequency and focal length of YN860Li/YN660/YN560IV/YN560III/YN968N which are set to slave unit mode, it can control slave unit parameters of 6 groups at most, it is also compatible with RF605,RF603(II),RF-602 series wireless flash trigger.
When YN860Li is used as slave unit, it supports receiving signals from the following master control unit: YN860Li/YN560IV/YN660 speedlite, and YN560-TX(II)/RF605/RF603(II)/RF-602 series wireless flash trigger.
Master unit refers speedlite or wireless flash trigger installed on camera, slave unit refers to speedlite or wireless flash trigger controlled through radio transmission. For using accessary small bracket to fix slave unit, the basic relative position and operating range are as shown in the figure.



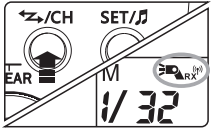
Radio Transmission Master Control Unit Setting

Short press the [⇆/CH]on the speedlite until [TX]displays , the flash is set to be master control unit.

Long press the [⇆/CH] button, the channel sign flickers, the speedlite supports 16 channels, Press [up] [down] [left] [right] button for setting and press [OK] to save.



Radio Transmission Slave Unit Setting



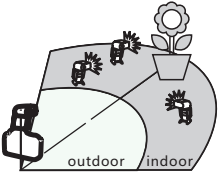
Short press the [/CH] button of the speedlite until [RX] displays, the flash is set to be slave unit.
Long press [/CH]button to set slave unit and master unit to be in the same channel.
Short press [**Gr/Fn**]to set the grouping(A-F)of the slave unit.

Radio Transmission Flash Shooting

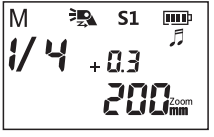
Short press master unit [**Gr/Fn**] button to select grouping orderly, press [**MODE**] to set the flash mode of the current group, the speedlite supports M/MULTI flash mode and --(no flash).Press [**SET/♫**] to set the focal length of the speedlites in different groups, in Multi mode, short press [**SET/♫**] to set stroboscopic times and frequency. The flash mode, flash output, focal length of speedlites in groups A-F can be set differently, among of the speedlites, the setting of the master control flash is set to be the same as that of group A. When the camera's shutter button is pressed, the speedlites in all groups fire according to the setting of the master control unit with the synchronizing signal of camera.

The radio transmission modes of master control unit and slave unit need to be set to be consistent through customs function setting.
The flash parameters of YN860Li can be set remotely through YN560-TX(II) wireless flash trigger, when RF-602/RF603/RF605 are used to send or receive signals,the flash mode or output needs to be set on the speedlite of slave unit.

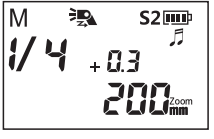
Wireless Flash Shooting: Optical slave mode(S1/S2)



Short press the [/CH] button unit [S1] or [S2] icon is display. The two modes are also suitable for off-camera slave unit, for create a variety of lighting effects, which is suitable for manual flash and TTL flash environment. The two modes are same as M mode when adjusting the flash output. When using the S1\S2 mode, you can rotate the flash head to make the sensors face to the master unit.



S1 mode: In this mode it will work with the first flash synchronously of the master flash, with the result consistent with the use of radio slave. To use this
mode properly, the master flash should be set at manual flash and the TTL flash system with preflight function and the red-reduction function with multiple flashes should not be used.

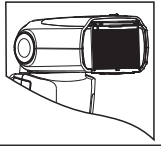


S2 mode: It is also called "pre-flash cancel mode". This mode is similar with S1 mode, but it can neglect the pre-flash given by TTL flash. Therefore, it can support the master flash working in TTL mode. In particular, if S1 mode cannot flash properly and synchronically with your internal flash, you can try to use S2 mode.

Advanced Applications

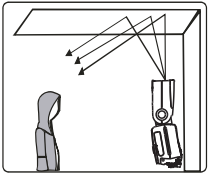
1.Use Wide Panel

Pull out the Wide panel, push back the Reflection board and arrange them as per the figure. The flash range will be enlarged and the effect will be softer and more natural.



2.Reflection Flash

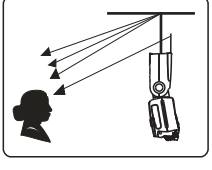
Bounce flash means to take photos by making flash light head aimed at wall or ceiling and using the light reflected back from the ceiling or wall to light the desired object, so that the shade behind the object can be decreased to get more natural shooting effect.



If the wall or ceiling is too far, the bounce flash may be too weak to get enough exposure. The wall or ceiling should be even and white in order to get efficient reflection, if the reflection surface is not white, color cast may appear in photo.

3.Use Reflection Board

For shooting with the reflection board in flash, pull out the reflection board and the wide panel out from the light head at the same time and then push the wide panel back. In such case, if this product is being used to take photos, it will produce a highlighted point on the eyes of the subject and thus make the eyes charming (catching light). This function can reach optimal effect when the flash head is up 90°.



Advanced Applications

4.Short Distance Flash Shooting

When you position the flash head down by 7° , you can shoot subjects at a short distance in a range of approx. 0.5 to 2 m.

5.PC Sync port (input)

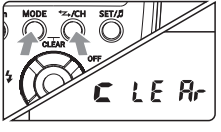
Through connecting to the PC sync port, you can make the flash synchronously.

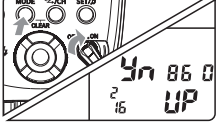
6.High-speed Continuous Shooting

The flash can support the high-speed continuous shooting function. Please set the camera in the continuous shooting form and then shoot.

7.Factory reset

Long press the [**MODE**] button and [⇆/CH] button can set the flash shooting function settings and wireless shooting setting recover to the default set-top flash mode status.





8.Firmware Upgrade

1).Log in the YONGNUO official website (www.hkyongnuo.com) to download the upgrade software and the latest firmware.

2).Power off, use USB-Micro USB cable connect to PC. (Do not include cable)

3).Press the **[MODE]** button and set the power switch to **[ON]**, the LCD will display firmware upgrade interface.

4).Complete the firmware upgrade operation according to the prompt

C.Fn:Setting Custom Functions

Long press the function button [**Gr/Fn**] on the speedlite to enter customs function setting, press[up]or [down] button to select the items need to be adjusted, press [left] or [right] to alter setting, press [OK] to confirm and exit setting.

C.Fn-01: Power saving function(Auto Power Off) in on-camera mode and master control mode

Applicable Mode: On-camera mode and master control mode

05-120:Represents number of minutes after entering power save mode.

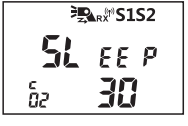
OFF: Power saving function is off.

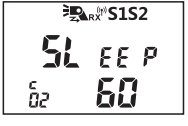
C.Fn-02:Power saving function(Auto Power Off) in slave mode

Applicable Mode: Slave mode

05-120 : The speedlite powers off after keeping idle for 5-120 minutes.

OFF: Power saving function is off.

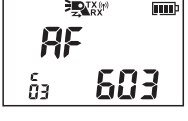


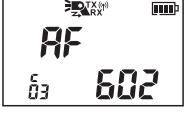


C.Fn-03: Radio transmission communication mode.

RF603:RF603 mode

RF602:RF602 mode

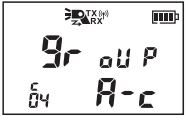


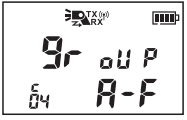


C.Fn:Setting Custom Functions

C.FN-04:Grouping in radio transmission

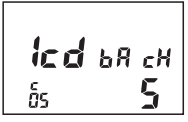
A-C:The speedlite can be set to A/B/C group
A-D:The speedlite can be set to A/B/C/D group
A-E:The speedlite can be set to A/B/C/D/E group
A-F:The speedlite can be set to A/B/C/D/E/F group

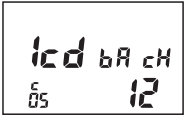




C.FN-05:Light duration of display backlight

05-12:Number of seconds of backlight lighting time.



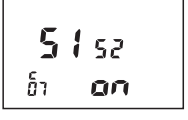


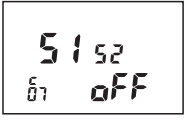
C.FN-06: Indicator light function of slave unit

ON: In radio transmission slave or optical transmission mode, the function indicator light of slave unit blinks.
OFF: The function indicator light of slave unit is off.

C.FN-07: Optical transmission slave flash function (S1,S2)

ON: Optical transmission slave flash function is enabled.
OFF: Optical transmission slave flash function is disabled.





Specifications

Circuit design:	Insulated Gate Bipolar Transistor (IGBT)
Guide No.:	60 (ISO 100,200mm)
Flash mode:	M, Multi
Trigger mode:	On-camera mode, radio wireless master mode, radio wireless slave mode, wireless optical slave mode(S1,S2)
Zoom :	24,28,35,50,80,105,135,200mm
Vertical rotation angle:	-7~90 degree
Horizontal rotation angle:	0~270 degree
Power supply:	11.1V 1800mAh Li-ion battery
Full power flashes :	700 times
Recycle time:	Approx. 1.5s
Flash color temperature:	5600K
Flash time:	1/200s~1/20000s
Flash control:	8 levels of output control (1/128~1/1), 22 levels of fine tuning
External interface:	Hotshoe, USB port, PC port
Optical transmission triggering distance:	20~25m indoor, 10~15m out door
Radio transmission triggering distance:	Up to 100m
Additional features:	Master flash, zooming, sound prompt, automatically saving setting, PC port, power saving mode, overheat protection, custom functions (C.Fn)
Dimensions:	206×75×56mm(extended state)
Net weight:	404g
Contains items(kit):	Speedlite(1), Li-ion battery(1), Battery protective case(1), Charger(1), AC Adadper(1), Protecting bag(1), Mini stand (1), Usermanual(1)

Troubleshooting

1 .Power does not turn on or the flash dose not fire.

- Make sure that the batteries are installed in the correct orientation.
- Please check if the speedlite is in overheat protection status.
- If the electrical contacts of the speedlite and camera are dirty, clean the contacts.

2.The flash automatically shut off the power.

Please check if the flash enable the power saving mode or whether the battery power is enough.

3.Vignetting appears in photos or only part of the subject is illuminated.

Please check the current coverage of focal length and make sure if the lens focal length exceeds the coverage range of the flash. The product's zooming range is 20~105 mm of the medium format system. You can try to pull out the wide-angle diffuser to expand the flash range.

4.Radio Transmission Slave Unit dose not fire.

Please set the radio transmission master control unit and save unit to be in the same channel, please set the communication modes of radio transmission master control unit and save unit to be consistent(RF602 or RF603),in slave mode, the speedlite cannot flash when installed on the camera, please set the flash mode to be on-camera mode.

5.Other problems.

Try to clear the settings of flash and camera, try to disable the flash power source and then restart the flash.

The functions of this user manual are based on test conditions of our company. Further notice will not be given if the design and specifications change. The YONGNUO logo in this manual includes the registered trademark or trademark of Shenzhen Yongnuo Photography Equipment Co.,Ltd in China or/and other countries(regions). All other trademarks are the property of their respective owners.

⚠ 警告

请勿让本产品淋雨或受潮，以免发生火灾或触电。
处理电池时，请将电池的触点包裹好以避免短路，并请遵守好当地有关处理电池的规定。
请将电池或容易误吞的东西远离儿童存放，如果误吞了物体，请立即与医生联系。
不要近距离对人体的眼睛使用闪光元件，否则有可能对人体视网膜造成伤害。
不要对需要高度注意力的人使用闪光灯，否则有可能引发安全事故。
如果发生以下情况，请立即取出电池并停止使用:

- **本产品跌落或受到强烈冲击，使产品的内部裸露。**
- **电池内部腐蚀性液体泄漏，此时应戴手套取出电池。**
- **产品发出奇怪的气味，发热或冒烟。**

请勿自行拆卸或维修本产品，如果接触产品内部的高压电路，可能会触电。
长期不使用本产品时，请取出电池。

产品功能简介

- **采用锂电池供电设计，极速回电系统**

使用1800mAh容量锂电池，支持1.5秒快速回电，全光输出可达700次。

- **支持无线电主控功能，轻松实现六组控光**

YN860Li作为主控单元，具备六组分组控制能力，实现远程控制YN860Li/YN560III/YN560IV/YN660/YN968N的闪光模式、亮度、焦距、频闪次数和频闪频率。

- **支持无线电从属功能**

YN860Li作为从属单元，可接收 YN860Li/YN560IV/YN660/YN560-TX(II)/RF603 (II)/RF605/RF-602的控制、引闪信号，实现M/Multi模式闪光。

- **大指数**

Gn60@ ISO100,200mm，支持手动闪光、频闪闪光。

- **支持电动变焦功能**

支持手动变焦，灯头覆盖焦距可在24~200MM之间变动。

- **支持USB固件升级**

配备USB接口，支持固件升级，用户可登录永诺官网下载固件升级包对闪光灯进行升级。

- **支持S1和S2避预闪触发模式**
- **支持自动保存设置、支持自定义功能设置**
- **配备LCD显示屏、标准PC接口、声音提示系统**

快速使用指南

如果您没有时间浏览整本说明书，请阅读本节内容。

1.请避免最大输出功率的过度使用，可有效延长本品的使用寿命（进入过热保护时，建议将闪光灯闲置10分钟以上）。

2.短按【⇆/CH】按钮可切换各种触发方式，包括机顶/无线电主控/无线电从属/光学从属(S1或S2)模式，在无线电模式下长按该按钮进入频道设置选项。

3.按【MODE】按钮设置闪光模式:M/MULTI。

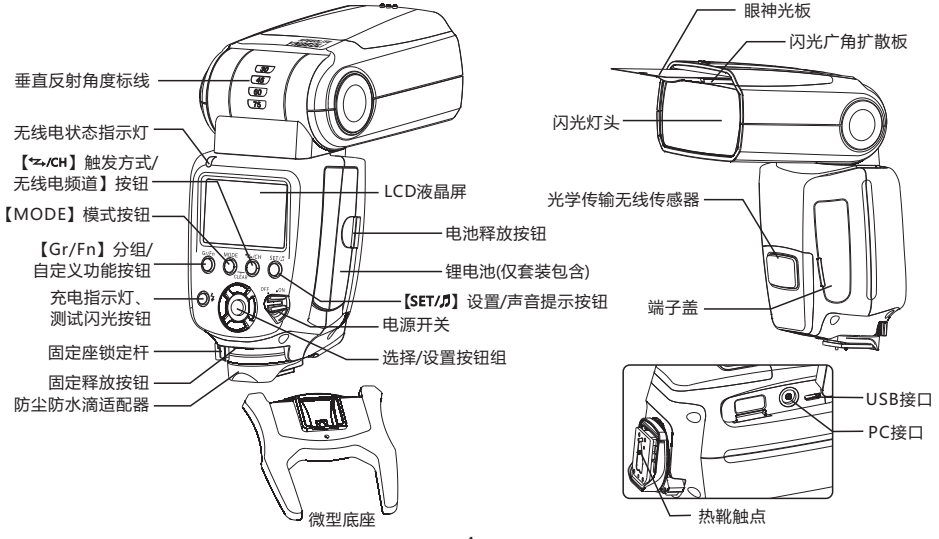
4.无线电主控模式下，按【Gr/Fn】按钮切换各分组，其中主控单元同A组设置。

5.短按功能按钮【SET/♫】进入焦距设置选项，在频闪模式可进入闪光频率及闪光次数。长按该按钮开启/关闭提示音。

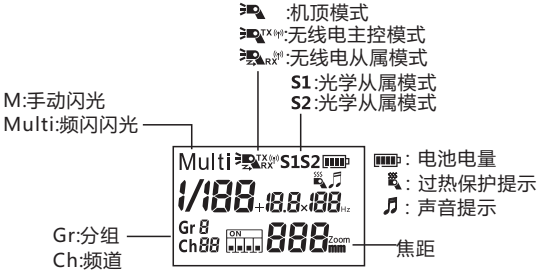
6.根据使用的无线引闪器，通过自定义功能设置无线电信号为RF603或RF602。

7.同时按下【MODE】和【⇆/CH】按钮保持不放，可将闪光灯拍摄功能设置和无线拍摄设置恢复为默认的普通机顶模式。

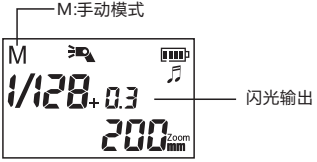
部件说明


垂直反射角度标线
无线电状态指示灯
【⁺ᶻ₊/CH】触发方式/
无线电频道】按钮
【MODE】模式按钮
【Gr/Fn】分组/
自定义功能按钮
充电指示灯、
测试闪光按钮
固定座锁定杆
固定释放按钮
防尘防水滴适配器
微型底座
LCD液晶屏
电池释放按钮
锂电池(仅套装包含)
【SET/♫】设置/声音提示按钮
电源开关
选择/设置按钮组
眼神光板
闪光广角扩散板
闪光灯头
光学传输无线传感器
端子盖
USB接口
PC接口
热靴触点

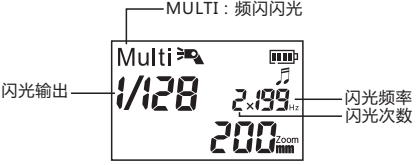
液晶显示屏



手动闪光液晶屏显示



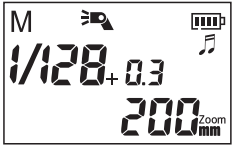
频闪闪光液晶屏显示



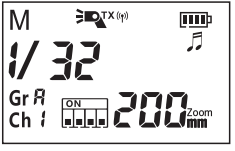
液晶显示屏

短按【 ⇄ 】按钮在机顶模式、无线电主控、无线电从属之间切换，长按该按钮在光学从属模式(S1/S2)之间切换。在机顶及主控模式，显示屏背光将以绿色点亮，在从属模式，显示屏背光将以橙色点亮。

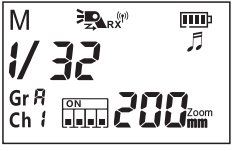
:机顶模式



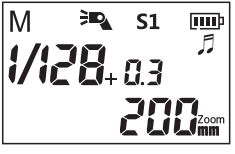
TX :无线电主控模式



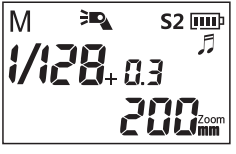
RX :无线电从属模式



S1 :光学从属模式



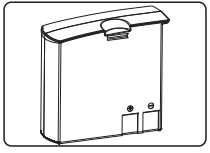
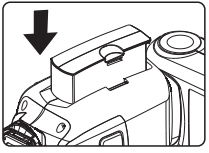
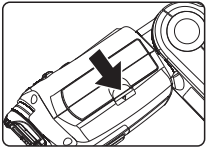
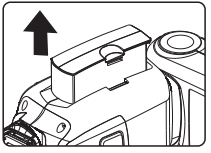
S2 :光学从属模式



产品安装

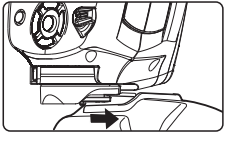
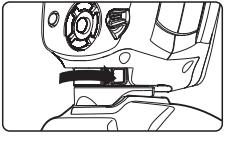
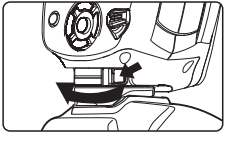
1、安装电池及取出电池

根据图示，将锂电池完全推入闪光灯电池仓，在电池锁定杆听到咔嚓声时，电池将被安装。
要取出锂电池，按箭头方向拨动电池锁定杆，锂电池将自动弹出。

2.安装及取下闪光灯

将闪光灯【热靴座】完全推入相机热靴。
如箭头所示，将【固定释放旋钮】上的锁定杆滑动到右侧，在锁定杆发出咔嚓声时，闪光灯将被锁定。
按住【锁定释放按钮】的同时向左滑动锁定杆，取下闪光灯。

基本功能操作

1.按钮操作

【ON/OFF】开关	拨到"ON"、“OFF”位置开启或关闭闪光灯电源
【MODE】按钮	短按该按钮可以在M、MULTI、--禁止闪光（仅在无线电主控）之间循环切换
【⇆/CH】触发方式/无线电频道按钮	短按该按钮依次切换闪光触发方式：机顶、无线电主控、无线电从属，光学从属(S1,S2)，在无线电模式下，长按该按钮设置频道
【Gr/Fn】	在无线电主控及从属模式下,短按该按钮切换分组；长按该按钮设置自定义功能
【SET/声音 】	短按设置焦距、频闪次数、频闪频率，长按开启或关闭声音提示
【设置/选择按钮组】	包括 【左】【右】【上】【下】及中间的【OK】按钮;通过这些按钮分别可以设置功率输出、输出微调、频闪闪光次数及闪光频率、自定义功能、焦距、频道
【TEST】按钮	测试闪光或唤醒闪光灯

2.【LINK】指示灯含义

【LINK】指示灯状态	含义
绿色	无线电通讯状态
红色	发送或接收引闪指令

3.背光灯颜色含义

显示屏背光颜色	含义
绿色	机顶或主控闪光模式
橙色	从属闪光模式
红色	闪光灯进入过热保护

基本功能操作

4.【声音提示】

在声音开关打开的情况下，闪光灯会发出不同的声音提示其工作状态，含义参见下表

声响方式	含义	声音提示作用范围	处理方法
嘀嘀2声	闪光灯开机/声音开关开启/闪光OK	闪光OK仅从属模式提示	正常
嘀嘀嘀3声	闪光灯处于充电状态	仅从属模式提示	等待充电完成
嘀---长响	闪光灯充电完成，可以闪光	仅从属模式提示	正常
连续快速响	电量不足，闪光灯即将关机	所有模式	请更换电池
嘀-嘀嘀嘀嘀	过热保护提示	所有模式	闲置10分钟等待过热解除

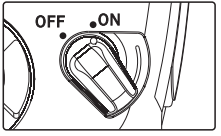
5.无线电TX主控模式及RX从属模式的分组显示状态及含义

分组显示状态	含义	
	Tx主控闪光模式	Rx从属闪光模式
GR A	此时可设置**主控单元**及离机A组闪光灯的闪光模式、亮度、焦距	本机作为从属单元的A组闪光灯使用
GR B/C/D/E/F	此时可通过主控单元分别设置离机B/C/D/E/F组闪光灯的闪光模式、亮度、焦距	本机作为从属单元的B/C/D/E/F组闪光灯使用

基本功能操作

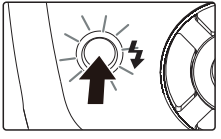
6.开启及关闭电源

将电源开关拨到【ON】位置，闪光灯开机并开始充电，开启电源后【充电指示灯】亮红灯，表示可以进行闪光。闪光灯使用完毕后，将电源开关拨到【OFF】位置即可关闭电源。



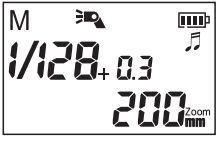
7.测试闪光

在闪光灯充电指示灯变为红色后可以按下闪光测试按钮来测试闪光是否正常。



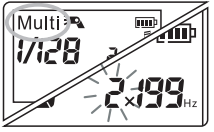
8.M模式

在M模式下，您可以根据自己的需求设定闪光亮度，通过【左】【右】按钮可以对闪光亮度进行调节。闪光亮度的调整范围是1/128~1/1，亮度共8档，每一档最多可有3档微调，【上】【下】按钮作为微调输出功率使用，以1/3EV作为调节增量，拍摄时,您只需设定闪光亮度,调整相机并按下快门，闪光灯会在相机同步信号下进行闪光。



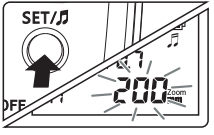
基本功能操作

9.Multi模式



Multi模式即频闪模式，在该模式下，闪光灯将按您设置好的输出功率、闪光频率与次数闪光。通过按钮【左】与【右】可以调整输出功率，输出功率的调整范围是1/128-1/64-1/32-1/16-1/8-1/4。要调整闪光次数与频率，请先按【SET】按钮进入焦距设置菜单，再次按【SET】按钮可选择将要设置的项目（闪烁），此时可以调整闪光次数、闪光频率闪光次数。

10.灯头手动变焦



短按功能按钮【SET/♫】，再按上下左右按钮调节覆盖范围，可以手动调整闪光覆盖范围（24,28,35,50,70,80,105,135,200mm）。

11.关于过热保护

连续拍摄过于频繁时，闪光灯灯头的温度可能会升高，闪光灯将会出现过热警告，此时液晶屏上将显示【♨】图标，回电时间将会变慢。

当闪光灯过热提示图标显示后仍继续闪光，则可能会激活过热保护闪光限制，此时液晶显示屏照明将以红色点亮，闪光灯无法触发闪光，此时请将闪光灯闲置10分钟，等待闪光灯冷却。

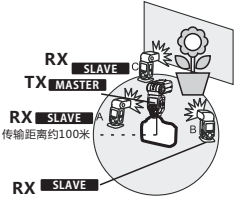
- 当闪光灯出现过热警告时请适当降低闪光频率或闪光输出。

无线闪光拍摄：无线电传输

YN860Li作为主控单元，可远程更改已设置为从属单元模式的YN860Li/YN660/YN560IV/YN560III/YN968N闪光灯的闪光模式、亮度、频闪次数、频闪频率和焦距，最多可控制六组从属单元参数，同时也兼容RF605,RF603(II),RF-602系列无线引闪器。

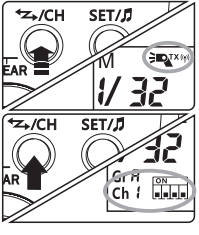
YN860Li作为从属单元，支持接收以下主控单元信号:
YN860Li/YN560IV/YN560III/YN660闪光灯,YN560-TX(II)/RF605/RF603(II)/RF-602系列无线引闪器。

主控单元指装在相机上的闪光灯或无线引闪器，从属单元指通过无线电控制的闪光灯或无线引闪器，使用附带的微型支架定位从属单元，基本相对位置和操作范围如图所示。



无线电主控单元设置

短按闪光灯【⇆/CH】按钮，直至显示【TX(ᵢᵢᵢ)】图标即设置为主控单元。

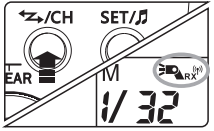


长按【⇆/CH】按钮，频道闪烁，支持16个频道。按【上】、【下】或【左】、【右】按钮设置，按【OK】按钮保存。

无线闪光拍摄：无线电传输

无线电从属单元设置

短按闪光灯【⇆/CH】按钮，直至显示【RX】图标即设置为从属单元。
长按【⇆/CH】按钮，将从属单元与主控单元频道设置一致。
短按【Gr/Fn】按钮设置该从属单元分组（A-F）。



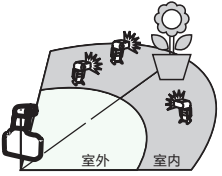
无线电闪光拍摄

短按主控单元【Gr/Fn】按钮依次选择分组，按【MODE】按钮设置当前分组闪光模式，支持M/MULTI闪光模式及--(不闪光)。按【SET】按钮设置各组闪光灯焦距，在Multi模式下短按【SET】按钮设置频闪次数及频闪频率。
可以为A-F分组闪光灯设置为不同的闪光模式、亮度、焦距，其中主控单元的设置与A组相同。
按下相机快门按钮时，各组闪光灯会根据主控单元的设置在相机同步信号下进行闪光。

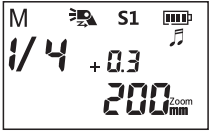
需要在自定义功能选项将主控单元和从属单元的无线电信号模式设置为一致。
支持通过YN560-TX(II)无线引闪器远程调整YN860Li的闪光参数，在使用RF-602/RF603/RF605发射或接收时，需要在从属单元闪光灯上设置闪光模式及输出。

无线闪光拍摄：S1/S2光引闪

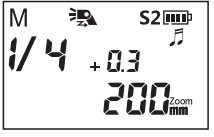
短按【⇆/CH】按钮直至显示【S1】或【S2】图标。这两种模式适合作为离机副灯使用，以创建多种照明效果，它们分别适合于手动闪光环境和TTL闪光环境。这在两种模式下调整输出与M模式一样，使用S1、S2时，可以通过旋转闪光灯灯头，使感应器对着主控灯。



S1模式：当闪光灯处于S1模式，它会与主闪光灯的第一次闪光同步触发闪光，效果与使用无线引闪器一样。要正常使用该模式，您的主闪光灯应设置为手动闪光，不应使用具有预闪的TTL闪光系统，也不应使用具有多次闪光的红眼减轻功能。



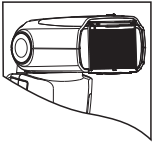
S2模式：又被称为"预闪取消模式"，该模式与S1类似，但它能忽略TTL闪光灯发出的预闪，因此可以支持工作在TTL模式的主闪光灯。特别地，如果S1模式无法与您的内置闪光灯正确同步闪光，您可以尝试使用S2模式。



高级功能操作

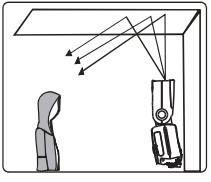
1.使用广角扩散板

拉出广角扩散板，推回反射板，并按示意图摆放，闪光范围将会扩大，同时闪光效果将更加柔和自然。



2.反射闪光

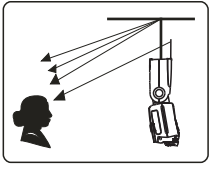
反射闪光是指通过将[闪光灯头]指向墙壁或天花板，借助天花板或墙壁反射回来的光照亮物体来进行拍摄(俗称“跳闪”)。这样可以减轻被摄物体背后阴影，获得更自然的摄影效果。



如果墙壁或天花板太远，反射闪光可能太弱导致曝光不足。墙壁或天花板应该是平坦的，白色的，以利于高效的反射，如果反射表面不是白色的，照片上可能会出现偏色。

3.利于反射板（眼神光板）拍摄

使用【反射板】闪光，把反射板和广角扩散板从灯头一起拉出，将广角扩散板推回。如果此时进行拍摄，可以在主体的眼睛造成高光点，使眼神更加迷人有光彩（眼神光）。此功能在灯头向上仰90度时能达到最好的效果。



高级功能操作

4.短距离闪光拍摄

将闪光灯头向下倾斜7度时，可以在大约0.5至2米范围内拍摄短距离的被摄体。

5.PC同步口（输入）

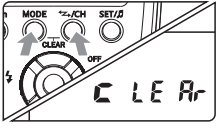
通过连接标准PC同步口，可以使闪光灯同步闪光。

6.高速连拍

本闪光灯可以支持高速连拍功能，请将相机设置为连拍模式，再进行拍摄即可。能连拍的照片数量与设置的亮度有关。

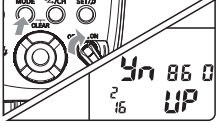
7.恢复出厂设置

同时按下【**MODE**】和【**⇆/CH**】按钮保持不放，可将闪光灯恢复为默认的普通机顶模式状态。



8.固件升级

1).登录永诺官方网站(www.hkyongnuo.com)下载固件升级程序及最新固件。
2).关闭电源，使用USB-Micro USB连接线（需另购）与PC进行连接。
3).按住【MODE】按钮的同时将电源开关设置在【ON】开机，屏幕显示进入固件升级界面。
4).按照软件上的提示完成固件升级操作。



设置自定义(C.Fn)

长按闪光灯上的功能按钮【**Gr/Fn** 】进入自定义功能设置，按【上】或【下】按钮选择所需调整的项目，按【左】或【右】按钮更改设置，按【**OK**】按钮确认并退出设置。

C.Fn-01: 机顶模式及主控模式节电功能(自动关闭电源)

作用范围:机顶及主控模式

05-120:代表进入节电模式的分钟数

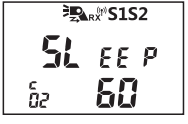
OFF：关闭节电功能

C.Fn-02: 从属模式节电功能(自动关闭电源)

作用范围:从属模式

05-120：闪光灯闲置5-120分钟关机

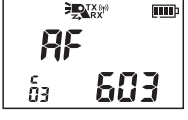
OFF:关闭节电功能

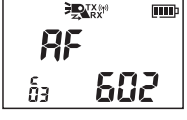


C.Fn-03: 无线电通信模式

RF603:RF603模式

RF602:RF602模式

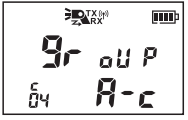


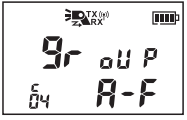


设置自定义(C.Fn)

C.FN-04:分组

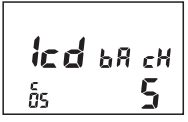
A-C:表示在无线电传输可设置为A/B/C组
A-D:表示在无线电传输可设置为A/B/C/D组
A-E:表示在无线电传输可设置为A/B/C/E组
A-F:表示在无线电传输可设置为A/B/C/D/E/F组

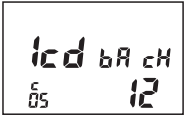




C.FN-05:显示屏背光灯点亮时长

05-12:表示背光灯点亮的秒数



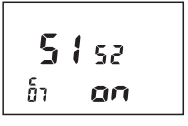


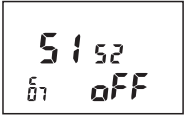
C.FN-06:从属单元提示灯功能

ON:在无线电从属及光学从属模式下，从属单元功能指示灯将会闪烁
OFF:关闭从属单元功能提示灯

C.FN-07:光学从属闪光功能（S1,S2）

ON:启用光学从属闪光功能
OFF:禁用光学从属闪光功能





规格

线路设计：	自动绝缘两级晶体（IGBT）
闪光指数：	60(ISO100,200mm)
闪光模式：	M,Multi
触发方式：	机顶，无线电主控，无线电从属，光学从属（S1，S2)
灯头变焦：	24,28,35,50,80,105,135,200mm
上下旋转角度：	-7~150度
左右旋转角度：	0~360度
电源：	11.1V 1800mAh锂电池
全功率闪光次数：	700次
回电时间：	约1.5秒
闪光色温：	5600K
闪光时间：	1/200秒~1/20000秒
闪光控制：	8级亮度控制(1/128~1/1)，22级微调
外部接口：	热靴，USB口，PC口
光学引闪距离：	光学引闪距离室内20~25米，室外10~15米
无线电传输距离：	可达100米
附加功能：	灯头电动变焦、声音提示、PC同步、节电模式、过热保护、自定义功能
体积：	206×75×56mm(伸展状态)
净重：	404克
所含物品(套装)：	闪光灯（1），锂电池(1)，电池保护盒(1)，锂电池座充(1)，电源适配器(1)，保护袋（1），微型底座（1），说明书（1）

故障排除

1.无法开启电源或闪光灯不闪光

请检查电池是否安装正确、电池电量是否充足；请检查闪光灯是否处于过热保护状态；
请检查闪光灯热靴与相机之间是否接触良好，如果闪光灯或相机的热靴触点变脏，请清洁触点。

2.闪光灯自动关闭电源

请检查闪光灯是否开启了节电功能及电池电量是否充足。

3.相片出现暗角或者被摄物体只有局部能照亮

请检查闪光灯当前的覆盖焦距。请检查镜头焦距是否超出闪光灯的覆盖范围，本产品设计的灯头变焦范围是20~200mm，您可以尝试拉出广角扩散板，以扩大闪光范围；如果距离被摄物体太近，请远离被摄物体；在2米以内请将闪光灯灯头设定为-7度。

4.无线电从属单元不闪光

请将无线电主控单元和从属单元的频道设为一致；请在自定义功能将通信模式设置为一致(RF602或RF603)，在从属模式下，闪光灯装在相机不能闪光，请将闪光模式设置为机顶。

5.其他故障

尝试清除相机及闪光灯功能设置，尝试关闭闪光灯电源然后重启闪光灯。

本使用说明书中的功能是依据本公司的测试条件获得的。设计和规格如有变更，恕不另行通知。
本说明书中的永诺（YONGNUO）徽标是深圳市永诺摄影器材股份有限公司在中国或/和其他国家（地区）的注册商标或商标。其他所有商标均为其各自所有者拥有。

YONGNUO DIGITAL

产品保修卡
Warranty card

序列号
SN. _____

产品名称
Product Name _____ 产品型号
Product Model _____

用户名称
Name _____ 联系电话
Phone _____ 购买日期
Purchase Date _____

地址
Address _____ 邮编
Zip Code _____

故障说明
Failure Description _____