

YONGNUO
DIGITAL

**热靴闪光灯套装
SPEEDLITE KIT
YN860Li**

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 order to ensure your safety. Keep it properly for reference in the future.



⚠ 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

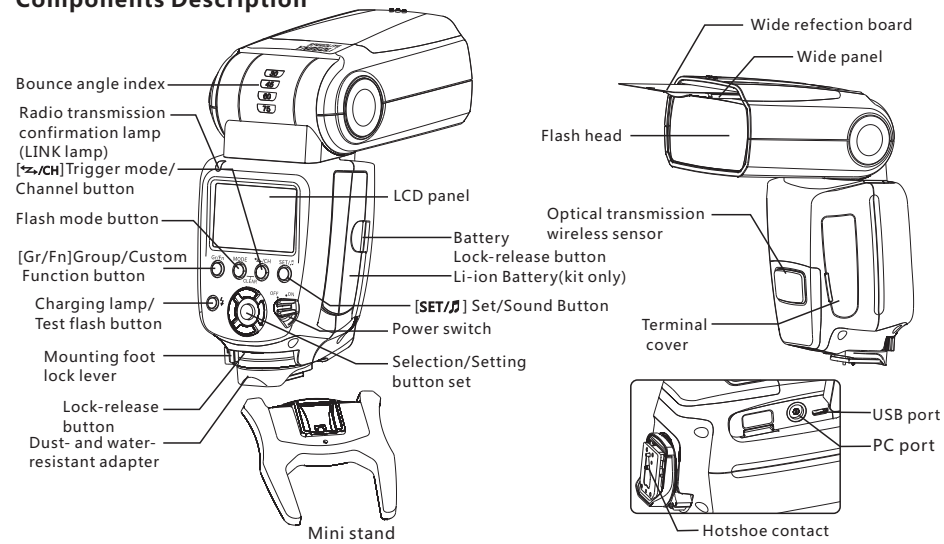
- **Adopts lithium battery power supply design, ultra-fast charging recycle system**
- Equipped with 1800mAh lithium battery, recycle time is only 1.5s, flash firing times of full output is over 700.
- **Supports radio transmission master control, realizes 6-group flash control function easily.**
As 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**
- G_n60@ 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

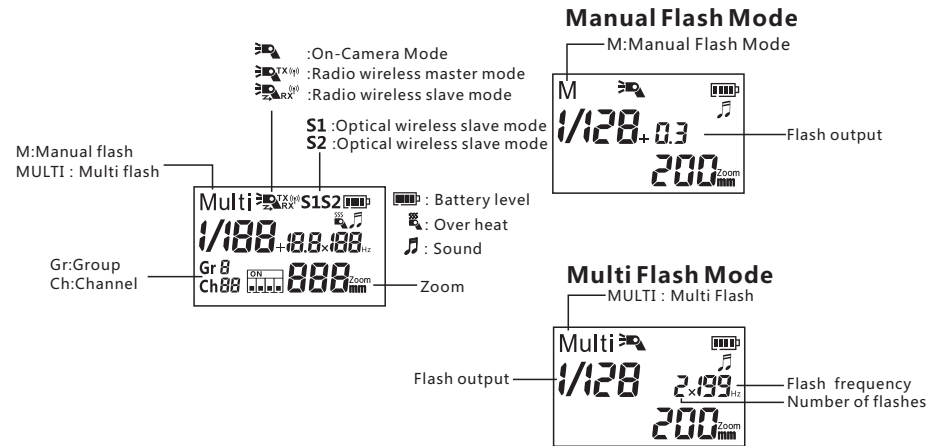
If you don't have much time to read the whole user manual, we advise you to read this section.

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



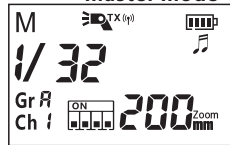
LCD Panel

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.

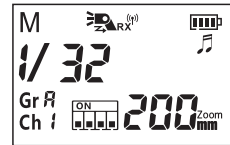
: On-Camera Mode



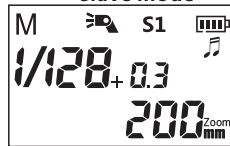
: Radio wireless master mode



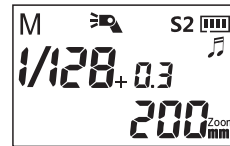
: Radio wireless slave mode



S1 : Optical wireless slave mode



S2 : Optical wireless slave mode

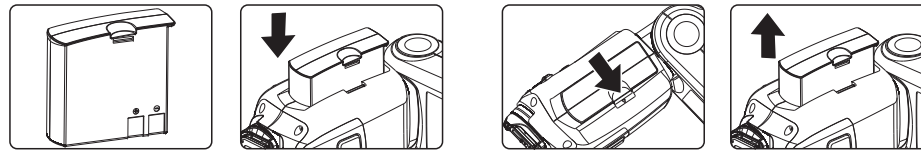


Installation Instruction

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.

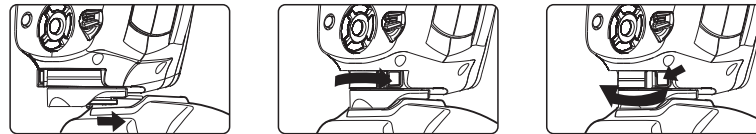


2. Attaching to the Camera & Detaching

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

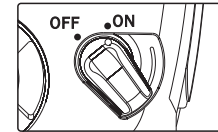
Grouping display status	Meaning	
	TX master flash mode	Rx slave flash mode
GR A	User can set the flash mode, output and focal length of master unit and off-camera flash in group A.	The unit used as a slave flash unit in Group A
GR B/C/D/E/F	Through master control unit, user can set flash mode, flash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

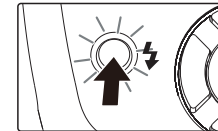
Set the power switch to [ON] position, the speedlite will turn on and start charging.

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

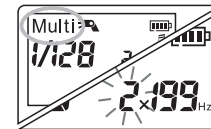
In M mode, you can set the flash output as your requirement and adjust the flash output through [left] [right] button. The adjustment range of flash output is 1/128~1/1. The output can be divided into 8 grades, and each has 1/3 EV as adjustment increment by [up] [down] button. When shooting, you should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



Basic Functions

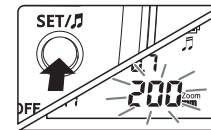
9. Multi Mode

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 [SSS] 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.

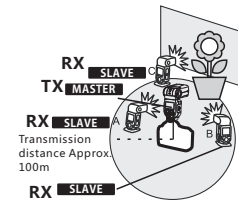
 When the speedlite warns overheat, please reduce the use intensity.

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.

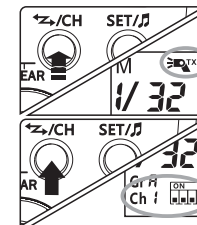
Master unit refers speedlite or wireless flash trigger installed on camera, slave unit refers to speedlite or wireless flash trigger controlled through radio transmission. For using accessory small bracket to fix slave unit, the basic relative position and operating range are as shown in the figure.



Radio Transmission Master Control Unit Setting

Short press the [↔/CH] on the speedlite until [TX(M)] 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.

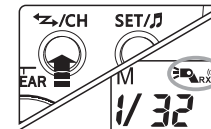


Radio Transmission Slave Unit Setting

Short press the [↔/CH] button of the speedlite until [⚡RX^{II}] 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.

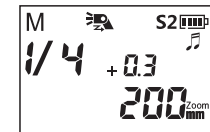
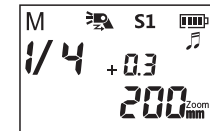
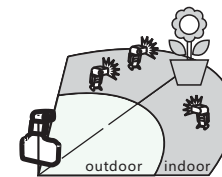
 The radio transmission modes of master control unit and slave unit need to be set to be consistent through customs function setting.
The flash parameters of YN860Li can be set remotely through YN560-TX(II) wireless flash trigger, when RF-602/RF603/RF605 are used to send or receive signals, the flash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

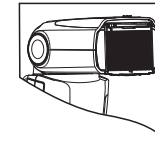
S2 mode: It is also called "pre-flash cancel mode". This mode is similar with S1 mode, but it can neglect the pre-flash given by TTL flash. Therefore, it can support the master flash working in TTL mode. In particular, if S1 mode cannot flash properly and synchronically with your internal flash, you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



Advanced Applications


1. Use Wide Panel

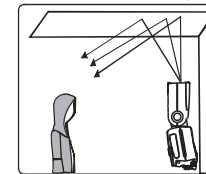
Pull out the Wide panel, push back the Reflection board and arrange them as per the figure. The flash range will be enlarged and the effect will be softer and more natural.



2. Reflection Flash

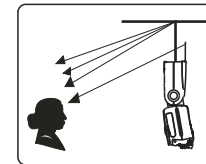
Bounce flash means to take photos by making flash light head aimed at wall or ceiling and using the light reflected back from the ceiling or wall to light the desired object, so that the shade behind the object can be decreased to get more natural shooting effect.

 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

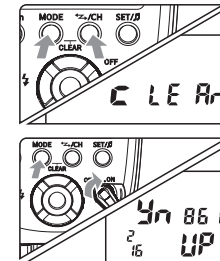
The flash can support the high-speed continuous shooting function. Please set the camera in the continuous shooting form and then shoot.

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

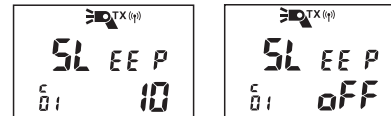
Long press the function button [Gr/Fn] on the speedlite to enter customs function setting, press[up]or [down] button to select the items need to be adjusted, press [left] or [right] to alter setting, press [OK] to confirm and exit setting.

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.

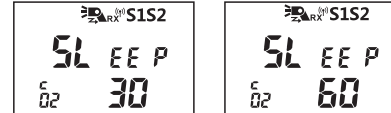


C.Fn-02:Power saving function(Auto Power Off) in slave mode

Applicable Mode: Slave mode

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

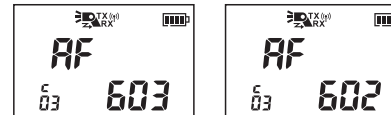
OFF: Power saving function is off.



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

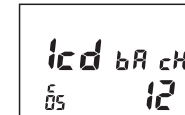
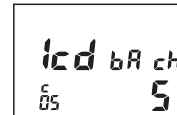
A-E:The speedlite can be set to A/B/C/D/E group

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.

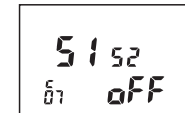
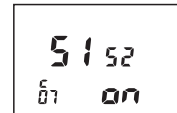
OFF: The function indicator light of slave unit is off.



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 does 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 does not fire.

Please set the radio transmission master control unit and slave unit to be in the same channel, please set the communication modes of radio transmission master control unit and slave 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.

FCC Caution.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.