



GT-400

Indoor Outdoor Flash Light

USER MANUAL



Made in China

support@geekoto.com



2.4G SYSTEM

Catalog

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FOREWORD

Thank you for purchasing this speedlight.

Please read this manual carefully before using the speedlight and correct use this speedlight on the basis of full understanding.

GT-400 TTL All-in-One Outdoor Flash, GT-400 has strong power, all-in-one lithium battery pack and great portability. When using 2.4G wireless system off camera, GT-400 can be triggered by series flash trigger in TTL/M/Multi mode, etc. With master & slave functions, GT-400 can also use in combination with self brand. TTL camera flashes, TTL outdoor flashes, TTL studio flashes, etc. With this flash, your shooting will become simpler. You can easily achieve a correct flash exposure even in complex light-changing environments. GT-400 flash system is an GT-400 flash with LED light, wireless flash trigger, and range of dedicated light shaping accessories. offers studio quality light for outdoor and live shooting.

offers:

The powerful and portable GT-400 meets the demands of freelance commercial photographers, photojournalists, wedding and beach portrait shooters, event and backpack photographers, photograph enthusiasts, etc.

For Your Safety

- 1, Never trigger the speedlight around flammable gas or liquid gas (such as gasoline and solvents)! There be risk of explosion!
- 2, Never trigger the speedlight at close range of your eyes! Using the speedlight directly at people or animal's eyes will damage the retinas and cause serious visual disturbance, even blindness.
- 3, Only use the batteries listed in this manual!
- 4, Never place the batteries in high-temperature environment, such as under the sun or in the fire.
- 5, Keep the speedlight and battery charger away from the water(such as the rain).
- 6, Note in extreme high temperature or humid environment protection flash.
- 7, Do not place the flash in car dashboard glove compartments, when triggered flash, Do not place an opaque object in front of the reflection screen or above, and no dirt is allowed on the reflective screen. Otherwise the high-energy flash will burn reflective objects on the screen or damage screen.
- 8, Never open the speedlight by yourself. It have danger of high voltage. Non-professional personnel couldn't repair parts.

Product advantage

- **Compatible wireless TTL system:** Fully support Canon E-TTL II, Nikon i-TTL and other TTL systems in self brand 2.4G wireless 陣 (Jin) system. Workable as Slave unit in a wireless flash group.
- **Dot-matrix LCD panel:** with clear and convenient operation.
- **Built-in 2.4G wireless transmission:** with all-in-one functions and 80 meters further transmission
- **Studio quality light:** up to 400Ws, GN 63 (m ISO 100) . One GT-400 can overpower the sun.
- **External battery pack:** professional lithium battery pack (Lithium, 14.8V-3200mAh), 0.01-2.5s recycling and 350 full power flashes.
- **Light weight and portable** even with power and accessories
- **Wireless control:** With built-in 2.4G wireless 陣 (Jin) to achieve TTL control. Self brand C-1 (Commander) flash trigger can also be used to wirelessly adjust flash power level and trigger the flash. GT-400 has 3.5mm sync cord jack and PC sync socket to achieve various sync triggering mode.
- **Wide-range accessories:** softbox, beauty dish, snoots, color gels, etc.
- **Power adjusts from full power to 1/128 in 1/3 stop increments**
- **Stable color temperature at 5600±200K over the entire power range**
- **1/8000s high-speed sync flash, Focus-assist beam on/off & high-speed sync triggering**

Component name

Body



Component name

Body



Note:Setting keys have multiple functions to be used as:
【Dimming knob】 【Encoding switch】 【The initial setting button】
0 : OFF I : Lithium battery powered ON II : DC power supply ON

Component name

Standard



Flash



lithium battery



Charger



Power cord



Lamp cover

Buy extra

GT-400 can be used with the following accessories to obtain the best results of the shooting and the use of experience.



Soft box



Reflector



Reflector



Soft box



Bee nest



Snood

Component name

Special Bowens bayonet converter TR-06



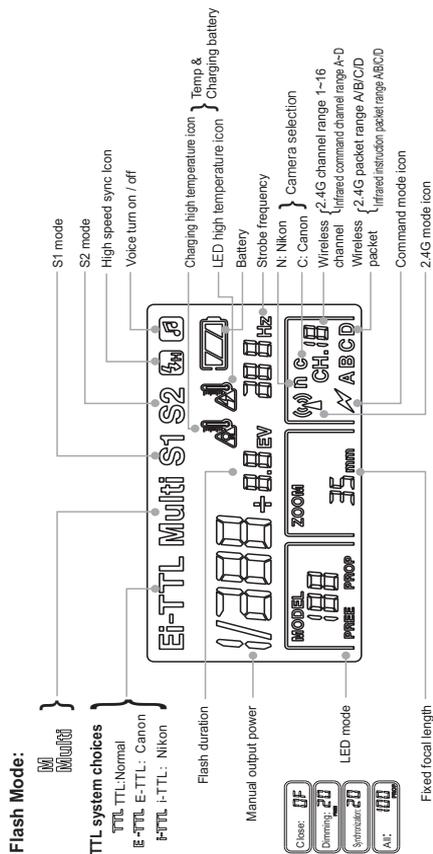
TR-06 (buy extra)



Standard reflector RF-07 (buy extra)



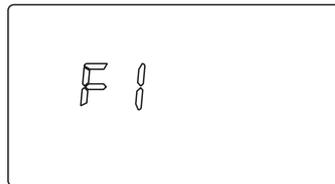
Component name



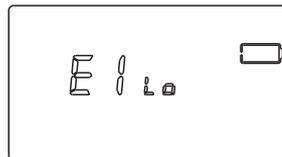
Component name

Ready to start

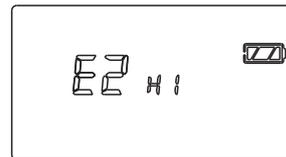
The standard battery LE-27 is installed to the battery box, turn on the power of the corresponding supply mode (lithium battery or DC power supply), flash light to work on battery self-check, self display flash type information battery voltage is normal to complete the system, the initialization, the boot interface is as follows:



Initialization is complete flash into work mode, if the battery voltage during boot self-checking is abnormal, the interface prompts the battery voltage is too low or too high, please replace the battery.



Battery Low



Battery High

Power supply:

- 1, Special lithium battery LE-27(3200mAh)(standard charging voltage 16.8V-1A)
- 2, External DC power supply (14.8V- 1A)(by extra)

Component name



Flash mode — TTL flash mode

Wireless mode selection C-1 (Commander)

The flash can work in a conventional mode (receiving 2.4G wireless signal) and the Nikon Canon system wireless instruction mode (receiving infrared transmission signal). Press the <MODE> button for three seconds to switch.

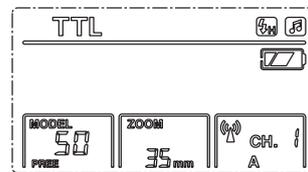
The flash light as a slave unit, can support TTL, M, Multi, S1, S2. Before using the flash and the remote control C-1 set to the same channel and group (reference to the remote C-1 manual).

The flash have 3 modes: TTL, M, Multi. In TTL mode, the camera's metering system will be the subject of the investigation from the main reflection of the flash lighting, so as to automatically adjust the flash output, so that the main body and background to get a balanced exposure.

* Press < MODE > mode selection button, and the three flash mode will appear on the LCD screen in turn. The lamp can work in a conventional mode (receiving 2.4G wireless signal) and the Nikon Canon system wireless instruction mode (receiving infrared transmission signal). Press the <MODE> button for three seconds to switch.

Select flash mode

Press <MODE > mode selection button until the screen shows TTL flash into the TTL mode, It can receive from the special remote control TTL/M/Multi, C-1 exposure signal, participate in the exposure applicable to Canon and Nikon Camera, and the realization of high-speed synchronization, after the curtain synchronization and FEB surrounded by exposure, you can also receive a packet flash from the remote control to achieve Multi, M different flash output.



LED mode

DF Close 50 Dimming 100 Full power

Flash mode — M: manual flash mode

Selection flash mode

Press [MODE] selection button until the screen shows the M mode.

Exposure power setting

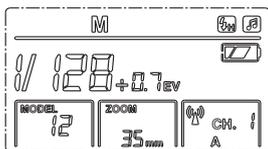
In standby mode, rotating light knob clockwise, the exposure power is increased, and counter clockwise the exposure power is reduced.

Modelling brightness

The mode can also be based on the need to set the shooting LED lamp brightness, to achieve different lighting effects. According to <MODEL> modeling light button, LED modeling brightness will be among the "off" / "synchronization" / "full light" switch between.

Remote trigger signal

Remote trigger signal this flash with special remote control C-1, which can realize the wireless function, 16 channels (1~16), 4 groups can be set (A, B, C, D).



This mode can be based on the need to manually set the flash output exposure power, in the 1/128 to 1/1 power between the 1/3 file for the incremental set of flash output, a total of 22 adjustable (as shown below).

LED
 Close Sync Full power

Display flash output

During the process of changing the flash output, the following table will clearly show how the aperture value is changed, such as 1/2-0.3, 1/2 + 0.3. You can see the change of the aperture value at the time of the increase or decrease of the flash output. For example, the amount of flash output reduced to 1/2, 1/2-0.3 or 1/2-0.7, and then increased to more than 1/2, 1/2+0.3, 1/2+0.7, will display 1/1.

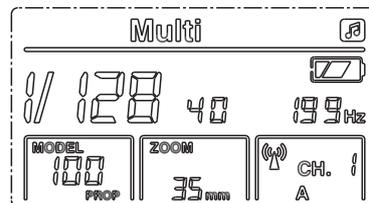
Reduced flash output index ⇐

1/1	1/1-0.3	1/1-0.7	1/2	1/2-0.3	1/2-0.7	1/4	...
	1/2+0.7	1/2+0.3		1/4+0.7	1/4+0.3		...

⇐ Increase flash output index

Flash mode — Multi: stroboscopic flash

Using stroboscopic flash, can send a series of quick flash. It can take multiple images of a moving object in a picture. You can set the flash frequency (the number of flashes per second, Hz), the number of flashes and the flash output.



LED mode

Close Dimming Full power

To correctly use the mode, the camera should be set in the manual mode. When use the Multi mode, it can issue a series of quick flash, it can be multi flash in a picture, in order to freeze a series of actions. In this mode, the flash output power, the number of flashes and the frequency of flash (the number of flashes per second to HZ), as required to set. This mode is commonly used when shooting moving objects.

Selection flash mode

Press [MODE] selection button until the screen display multi mode.

Exposure power setting

Standby mode rotation [settings], the clockwise rotation of the power increases, counter clockwise rotation power decreases. Exposure power set range 1/128~1/4 6 total files can be adjusted.

Exposure frequency setting

Standby state press [set button], until to the frequency of high brightness flicker, rotary encoder switch to adjust the frequency, clockwise rotation frequency increases, counter clockwise rotation frequency decreases. Frequency setting range adjustable 1~199HZ.

Flash mode — Multi: stroboscopic flash

Calculate shutter speed

During stroboscopic flash, the shutter remains open until flash to stop. Use the following formula to calculate the shutter speed, and then use the camera to set.

In order to prevent the flash head overheating and damage, do not perform continuous shooting stroboscopic flash more than 10 times. After flash 10 times, let the flash cool at least 15 minutes. If you try to execute the continuous shooting stroboscopic flash more than 10 times, For prevent the flash head overheating, flash will automatically stop. If this happens, let the flash rest for at least 15 minutes.

- The highly reflective subject in dark background using stroboscopic flash more effectively.
- It is recommended to use tripod and remote control switch.
- When the flash output set in 1/1 and 1/2 could not be set stroboscopic flash.
- You can also use "bulb" when stroboscopic flash.
- If the number of flashes to show --, the flash will flash continuously, until the shutter or battery exhausted. As shown in the following table, the number of flashes will be limited.

Flash mode — Multi: stroboscopic flash

Exposure times setting

Standby mode press the [Setting button] the number high light (yellow background and red letter). Rotate the [Setting button] adjust the number. Clockwise rotate the times increase and counter clockwise rotate the times decrease the times setting is limited by power.

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

Note:

Please use as below formula to confirm the shutter speed in multi mode.
Shutter speed=Number of flash/Flash multi (HZ)shutter speed.

Modelling brightness

The mode can also be based on the need to set the shooting LED lamp brightness, to achieve different lighting effects. According to <MODEL> modeling light button, LED modeling brightness will be among the "off" / "synchronization" / "full light" switch between.

Remote trigger signal

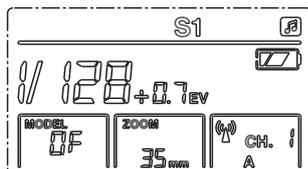
This flash with special remote control C-1, which can realize the wireless funtion, 16 channels (1~16), 4 groups can be set (A, B, C, D).

Flash mode — S1, S2: Wireless optical flash light mode

Induction mode

Press <MODE> mode selection button set to S1, S2 mode.

S1:

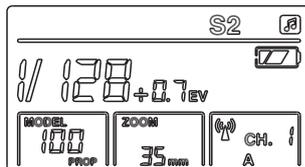


LED mode

OF Close 12 Sync 100 PROP Full power

These 2 modes are suitable for manual flash environment Master unit every flash is induced and synchronization trigger flash. The effect as same as wireless trigger. To normal use of this mode. The master flash should be set to the manual flash, should not be used with pre flash TTL flash system, also should not be used with multiple flash on red reducing function.

S2:



LED mode

OF Close 12 Sync 100 PROP Full power

Wireless channel 1~16
Group A~D

Suitable for TTL flash environment, also known as the "pre flash cancellation mode", this mode can ignore the pre flash of TTL flash, and synchronization the main flash, so can support the main flash work in the TTL mode. If the S1/S2 mode selected by the auxiliary lamp can not be synchronized with the main control flash, please confirm the main control flash mode, set up the induction mode of auxiliary and output power.

Flash mode — S1, S2: Wireless optical flash light mode

Troubleshooting guide

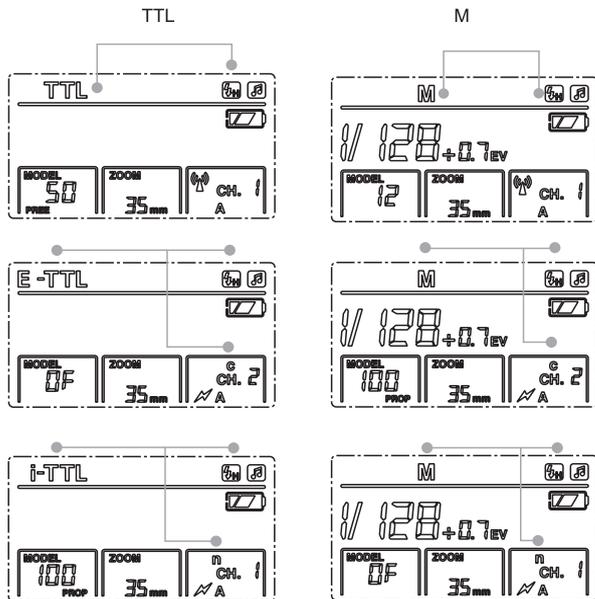
When using the S1/S2 mode, avoid the following:

- 1, Avoid reducing the main function of eye lamp;
- 2, Avoid using modelling lamp of main lamp light.
- 3, Avoid the main lamp use instruction mode (Nikon) or wireless mode (Canon);
- 4, Avoid using ST-E2 and the master light as a flash controller.

Remote trigger signal

The flash and the special remote control can be set up the remote control trigger and parameter change, 16 channels and 4 groups .

Flash mode — High speed synchronization



Canon high speed synchronization:

After enable the remote control high speed function, the camera will be in manual mode, the shutter speed can be used to improve the speed of synchronization.

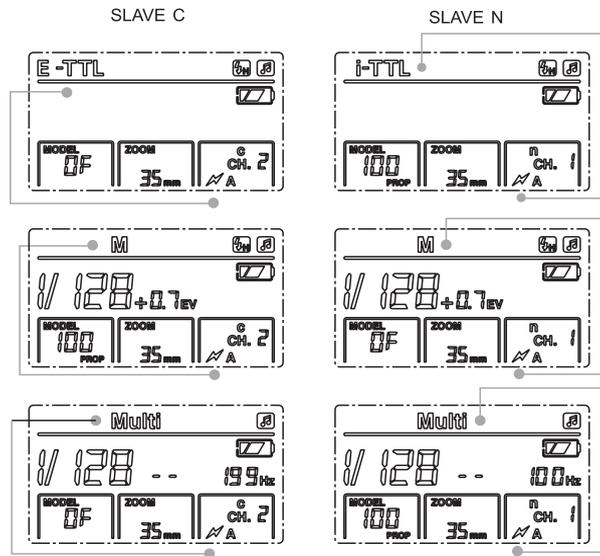
Nikon high speed sync:

Open the high speed synchronous function of the camera (reference to the specification set), the shutter speed can be increased to high speed synchronization state.

Wireless flash shooting — Wireless infrared transmission

Wireless instruction Canon instruction / Nikon instruction

This flash can be used in wireless systems and perfect combination use with other models.



Wireless flash system is made up of a number of wireless flash function to complete the work, like you use of ordinary TTL automatic flash as simple to create a variety of lighting effects.

Canon means the instruction signal from the receiving wireless flash Canon 7D/60D/600D camera flash and 580EX II, 600EX, ST-E2 and other master flash light signal.

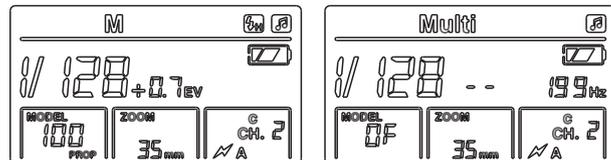
Wireless flash shooting — Wireless infrared transmission

Nikon mean the instruction receiving C command signal from Nikon camera flash C and SB-900/800/700, and the SU-800 command Deputy master flash light.

Canon / Nikon instruction supports 4 channels, 3 groups, TTL, manual and Wireless Flash strobe. When using the mode, the wireless trigger sensor is facing the main master light.

Long press the <MODE> key to enter the E-TTL/i-TTL wireless infrared receiver interface for 3 seconds. The parameters that can be received from the main master light source .Short press <MODE> key to switch between the E-TTL/i-TTL.

Before shooting, it is necessary to set the flash and the main master light on the same channel. This flash as a slave unit, Press (set key) into channel to display guide. Roating (set key) set slave unit communication channels (1, 2, 3, 4), then press [set] key to set the group. Rotary setting key set the slave unit group (A, B, C). When the slave unit is working, the brightness and the mode of the flash lamp are completely controlled by the main master unit, and the information received is displayed:



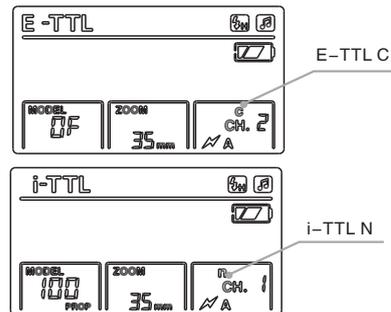
Troubleshooting guide

In the wireless instruction mode, the flash light can be realized with high speed sync, the parameters of the flash power and the mode can not be directly set, only be arranged on the master light.To correctly use the radio command mode, communication channels and flash groups must be set by correctly .

Wireless flash shooting — Wireless infrared transmission

Wireless remote control mode:

Canon remote control mode / Nikon remote control mode



Wireless channel 1,2,3,4 Group A,B,C,D

E-TTL ,C means only for Canon remote control signal.

i-TTL ,N means only for Nikon remote control signal.

Canon / Nikon remote support 4 channels, 3 groups, TTL, manual and Wireless mult flash . When in these mode, the direction position of the flash light is relatively free.

Before shooting, this light should be set on the same channel with the master transmitter. This flash as a slave unit, Press set keys to channel flashing, rotary encoding switch set remote control receiver unit communication channel (1~4), then press (set) key to group until twinkling, rotary setting button set the slave unit group (A, B, C). When working on the slave unit, and the flash brightness mode is completely controlled by the remote control transmitter, and displays the received information, and online aperture signal: GT-400 as the slave unit can be controlled, the master unit type: L400, TR660, L870 signal.

Set communication channel

If there is more than one wireless flash system in the shooting scene, you can prevent signal interference by changing the communication channel. To ensure that the master unit and slave unit are set to the same channel.

Wireless flash shooting - Wireless infrared transmission

Troubleshooting guide

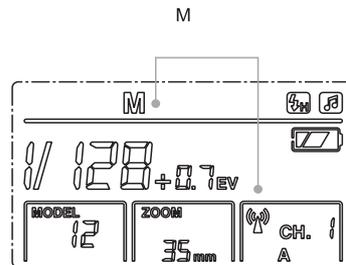
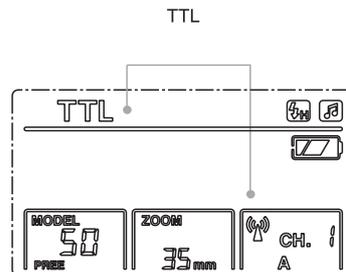
In wireless remote control mode, the flash power, mode and other parameters can not be directly set, only be set on the remote control transmitter.

- ① As using flash, flash or modeling lights can not be used, it is necessary to check whether the remote control of the flash mode and the shape of the lamp mode in off.
- ② Q: why the light can be flash? Why the light with remote control don't flash ?
A: because the flash be controlled by remote, please confirm whether the same group and same channel on the flash light and remote.

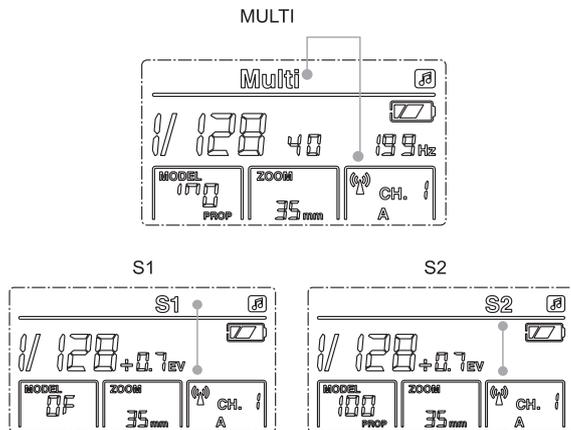
To correctly use the wireless remote control mode, we must set up the communication channel and flash group. Wireless remote control mode, can achieve high-speed flash synchronization, reference description (flash mode - high speed synchronization)

Wireless Flash transmission - Wireless 2.4G transmission

This light can work in normal mode (receiving 2.4G wireless signal) and Canon (Nikon wireless system command mode receives the infrared signal transmission), press the <MODE> button for three seconds to switch.



Wireless Flash transmission - Wireless 2.4G transmission



Canon / Nikon remote support 16 channels, 4 groups, TTL, manual and Wireless Multi flash. When the mode be used, the direction position of the flash lamp is relatively free.

Before shooting, this light should be set on the same channel with the master transmitter. The flash light be used as a slave unit, press set button to channel, and rotary coding switch sets the communication frequency of the remote control unit (1~16), and then press [set button] to the group information flicker, rotation [set button] set the slave units (A, B, C, D). When working in a slave unit, the brightness and mode of the flash light are completely controlled by the remote transmitter, and display the received information, and the on-line aperture signal:

*GT-400 as the slave unit, can be controlled by the master unit model: L870, L400, TR660 signal.

Multi lamp lighting applications

1, Wireless lighting instructions

You can create two or three subordinate unit to accomplish the all-round demand. And set up by master flash TTL shot automatic flash flash ratio, manual output, stroboscopic output, etc.

(1) In this type of flash of wireless flash two subordinate unit group, Set up wireless options: total have Slave C and Slave N can be choose, Setting communication channels: 1, 2, 3, 4

Set up group: The two flash set as A and B group respectively

Set the master control unit:

Set up communication channels: set the Master control unit of flash light ratio A: B or A: B: C, It can photography (Canon instruction for example) .

(2) In this type of flash of three subordinate unit group of wireless flash. Set up wireless options, total has Slave c and Slave N for choose .

Communication channels: 1, 2, 3, 4

Set up the group: The three flash set as A ,B and C group respectively

Set the master control unit and photographing

Set up communication channels: sets the main control unit of flash light than to < A : B > C (Canon instruction, for example), main control unit test flash button, flash test is normal, if the subordinate unit does not flash, please check this flash light and the angle of the main control unit to control the distance of the flash.

Be careful :

The master control unit if set the < RATIO A: B > , than set to < C > group slave unit will not flash. If three type this flash group set to < A > , so they will be as a flash from slave unit group controlled by the main control unit.

Multi lamp lighting applications

2, Lighting optical wireless induction

Use the built-in flash or external flash as master flash. Put flash do all sorts of different directions. When used in indoor, the wireless signal can be reflected through the wall light, so put in place from the light can have more space.

Wireless sensors triggered after the improvement, the trigger sensors sensitivity is higher, S1, S2 model can work in outdoor environment, wireless trigger induction distance 15 meters. When placed from the slave units, please test before filming S1 or S2 mode is normal step. Please do not placed obstacles between master flash light, obstacles will block Wireless optical signal transmission from the Lamp.

Please note when using outdoor wireless trigger induction window faces the main flash light, and can't let the sun direct illuminate, if these requirements conflict with the direction you want to flash light, please try to up and down or rotating flash head, avoide the demand.

3, 2.4 G wireless remote control lighting

Using a dedicated E-TTL or i-TTL remote control for signal emission, the light can according to the camera Settings (Canon) or flash setting, make TTL, manual, multi flash signal to slave units .so as to realize the flash effect of a variety of forms. 2. 4 G remote control distance can reach 50 meters, and the location of the light and the direction is not restricted.

Wireless power regulation
Synchronous trigger flash
Control in your hands



Other applications

External wireless remote control function

The power switch and the size of the standard C-1 flash remote controller can remotely control the flash trigger. You can also be placed in the shoe on the remote camera through the camera shutter to sync flash.

Sync hole trigger

Synchronous port with 3.5mm, insert a synchronization line or plug of trigger

Auto save function

The flash be set to complete, 5 seconds without operation, it will automatically save the current settings.

Set cancel

When you need to cancel some information on the flash and restore the factory default settings, just press the "Settings" button for three seconds.

Voice prompt

Short press "buzz" key, can open or close the voice prompt function.

Voice prompt meaning is as following:

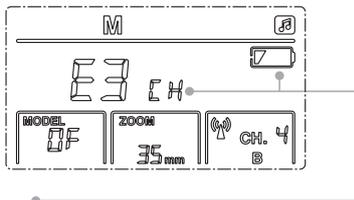
- 1, A long ring (drop) : call back is complete
- 2, 5 short ring (drops drops drops) : call timeout lock
- 3, 10 seconds shortness of continuous hum (drops drop...): flash over voltage or overheating, enter Protection.

Protective action

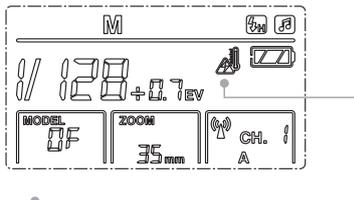
When the flash in the working state, the real-time monitoring system of battery voltage, LED lighting temperature and the temperature of the flash, each place is abnormal, the system will have the corresponding alarm and protection to prevent damage to the flash output. Its state, including low battery power, high battery power, charging time, flash with high temperature, LED with high temperature. When there is a high temperature alarm, please let the flash to rest for a period of time until the flash temperature back to the normal temperature.

Other applications

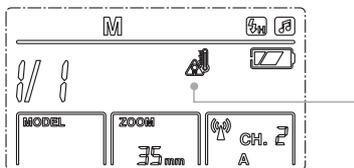
Overheat protection



Charge timeout



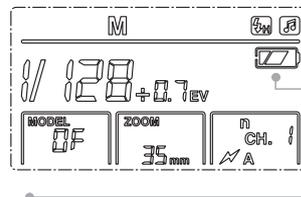
Flash high temperature



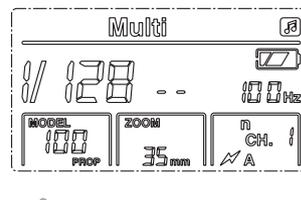
LED high temperature

Other applications

Overheat protection



Charge timeout



Charge timeout

Specification

Model	GT-400	
Wireless slave unit mode	Radio mode (compatible with Nikon&Canon)	
	Optical wireless (compatible with Nikon&Canon)	
Flash mode	Radio off	TTL/M/Multi/S1/S2
	Radio slave mode	TTL/M/Multi
	Optical wireless slave mode	TTL/M/Multi
Radio slave unit compatible camera	Nikow camera I-TTL/M/RPT flash master unit C-1, etc.)	
	EOS E-TTL camera II/M/MULTI CANON flash (master unit C-1, etc.)	
Flash index (1/1 gear)	63 (ISO100 m)	
Flash duration	1/220 1/10000 seconds	
POWER	400W	
Step	22:1/128~1/1	
Muti flash	With (Times: 40 times; frequency: 199Hz)	
Flash exposure compensation (FEC)	Manual, surrounded exposure: in between + 3 steps to 1/3 steps for incremental adjustment	
Synchronous mode	High speed sync (max 1/8000 seconds), front curtain synchronization, second curtain synchronization	
Masker	✓	
Fan	✓	
Buzzer	✓	
Lamp (LED)	10W	
Light flash	S1/S2, E-TTL C, i-TTL N	
Flash duration	✓	
Wireless Flash (optical transmission 2.4G Wireless transmission)	Dot matrix screen	
Wireless function	Slave unit, off	
Controlled slave unit group	Optical	3 groups: A, B, C
	2.4G	4 groups: A, B, C, D
Transmission range (approx)	Optical	Indoor:12 ~ 15 meters
		Outdoor:8~10metres
	2.4G	50m

Specification

Model	GT-400	
Channel	Optical	4 groups:1,2,3,4
	2.4G	16 groups:1~16
Power Supply	Power Supply(14.8V/3200mAh)	
Number of flash in full power	350 times	
Recycle time	Approx 0.01~2.5s	
Battery indicator	✓	
Save power	The flash will be automatically trun off in one hour when no operation	
Synchronous trigger mode	3.5mm synchronous wire, wireless control socket	
Color temperature	5600±200K	
Volume (including battery)	250x160x100mm	
Net weight (including battery)	1.96 Kg	