



# THINKLITE

## Camera Flash

### TT520 II / TT560 II

INSTRUCTION MANUAL



中英文双语 / Chinese English Bilingual

在使用本产品之前，请先仔细阅读本手册，  
以确保您能安全使用。请保存好本手册以备将来查询参考。

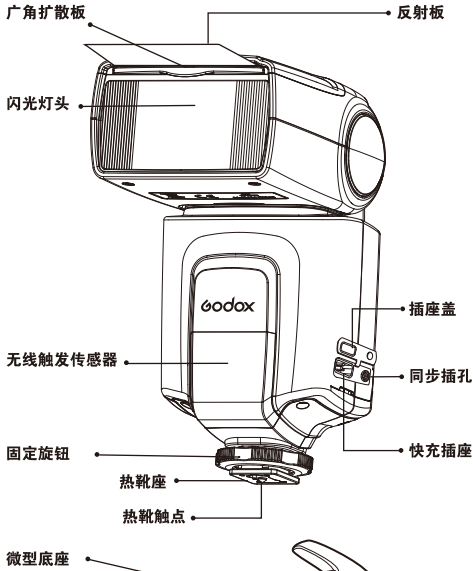
## 感谢您购买神牛产品

神牛‘迅丽’机顶闪光灯采用高性能CPU控制线路，精确控制功率输出，  
实现最低达1/128功率闪光，同时先进的光控引闪模式，其防预闪功能  
能使带预闪功能的相机也实现了光控引闪拍照，让您的摄影更随心。

## 警告！

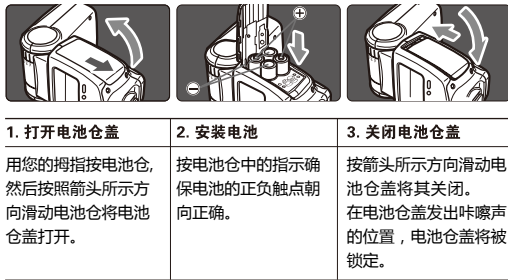
- ▲ 请保持干燥。
- ▲ 请勿私自拆卸产品，如产品出现故障须由本公司或授权的维修人员  
进行检查维修。
- ▲ 请勿让儿童接触本产品。
- ▲ 禁止拆卸、撞击、挤压或投入火中，若出现严重鼓胀，请勿继续  
使用。请勿放置在超过50度的高温环境中。
- ▲ 请勿将闪光灯头正对人眼闪光(特别是婴儿的眼睛)，否则可能会在  
短时间内造成视力障碍。
- ▲ 请勿在化学品、可燃性气体或其他特殊物质附近使用闪光灯，这些  
物质在特殊情况下可能对闪光灯发出的瞬间强光敏感，有可能导致  
火灾或电磁干扰。在这些场合下，请注意相关警告标识。
- ▲ 本产品不能防水，在雨天及潮湿环境下请注意防水。
- ▲ 若发生任何故障，请立即关闭闪光灯电源。

## 一、部件名称



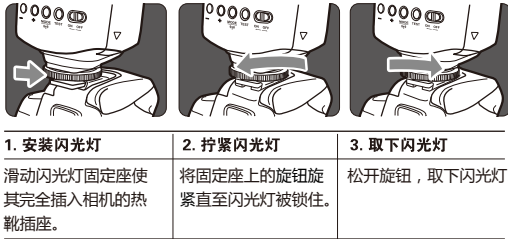
## 二、安装

### (一) 安装电池



- ▲ 注意：
- 如果在连续闪光多次后更换电池，小心电池可能会很烫。
  - 不使用时请将电池取出，以免电池漏液损坏闪光灯。

### (二) 把闪光灯安装到相机上



1. 安装闪光灯  
滑动闪光灯固定座使其完全插入相机的热靴插座。
2. 拧紧闪光灯  
将固定座上的旋钮旋紧直至闪光灯被锁住。
3. 取下闪光灯  
松开旋钮，取下闪光灯。

## 三、使用闪光灯

### (一) 电源管理

- 使用完后请把电源开关拨至“OFF”。
- 电源开关拨至“ON”，充电指示灯不亮表示正在充电，数秒后亮红灯，  
表示可以拍摄；
  - 要测试闪光，按“TEST键”。使用完后请把电源开关拨至“OFF”。
  - 当充电指示灯闪烁，周期为1秒时，表示电池电量不足，请更换电池。

### (二) 功率选择

- 本机有8档功率选择，8个LED分别指示8档功率。
- 按“+”键功率渐大，顺序为：1/128，1/64，1/32，1/16，1/8，  
1/4，1/2，1/1；反之，按“-”键输出功率渐小。

### (三) M模式

- 通过按MODE键，可以使闪光灯进入M模式，支持闪光灯安装到  
相机或触发器热靴上进行引闪。拍摄时，您只需要设定闪光亮度，  
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。

### (四) S1模式

- 通过按MODE键，可以使闪光灯进入S1模式。S1模式可作为副灯  
使用，创建多种照明效果，适用于手动闪光环境。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致。

### (五) S2模式

- 通过按MODE键，可以使闪光灯进入S2模式。S2模式可作为副灯使  
用，创建多种照明效果。它不会与主闪光灯的第一次闪光同步触发  
闪光，会与主闪光灯的第二次闪光同步触发闪光，即2次光控引闪。

- ▲ 注意：  
M模式下，闪光灯光控引闪功能关闭。S1、S2模式下，闪光灯的热靴  
触发功能失效。

### (六) 无线触发功能

- TT520 II/TT560 II 内置无线接收，发射端请使用RT发射器。
- 长按MODE 按键2秒可以控制无线触发功能打开和关闭。当无线指示灯  
点亮时表示无线触发功能打开；熄灭表示无线触发功能关闭。无线功能  
打开时整机耗电电流会增大，所以不使用无线触发功能时，请关闭无线功  
能，节省电量。

### (七) 快门同步功能

- 用连线将相机与闪光灯连接，可实现与快门同步触发闪光。

### (八) 省电功能

- 本灯带有节能模式，M状态下，电源会在约30分钟无操作后自动进  
入省电状态。如需打开闪光灯，请按任意键开启。
- 在无线闪光模式（S1或S2）下闲置60分钟即自动进入省电状态。  
如需打开闪光灯，请按任意键开启。节能模式下，充电指示灯闪烁，  
周期3秒。其他指示灯关闭。

### (九) 保护功能

- 进行连续闪光保护：  
为防止闪光灯头过热并损坏，请勿在1/2和1/1功率时进行超过20次  
的快速连续闪光。20次连续闪光后，要让闪光灯至少冷却10分钟。  
如您在进行超过20次连续闪光后马上继续进行更多次闪光，内部的  
防过热功能可能会被激活，使充电时间变成10至25秒左右。如果发  
生这种现象，请让闪光灯冷却约10分钟，闪光灯便会恢复正常。

### 连续闪光保护对应表：

功率	次数（大约值）
1/1	20
1/2	33
1/4	50
1/8	66
1/16, 1/32	100
1/64, 1/128	200

- 系统过热保护：  
当内部系统过热时，说明闪光灯已经过度使用，内部电路将自动关闭  
整个电源，需等系统温度下降（10分钟左右），闪光灯便会恢复正常。

## 四、拍摄技巧

- 使用反光拍摄--如觉得直射光线太强，可通过将闪光灯灯头指向墙壁  
或天花板，闪光在照亮被摄体前被墙面反射，这可减轻被摄物体背  
后的阴影，获得更自然的摄影效果。
- 使用反射板拍摄--先将内置反射板和广角扩散板从灯头拉出，将广角  
扩散板推回。此时使用本产品拍摄，可以在主体的眼睛造成高光点，  
使眼睛更加迷人（眼神光），此功能在闪光灯头上仰90度时能达到  
最好的效果。
- 使用广角扩散板拍摄--拉出广角扩散板，使闪光范围扩大，闪光效果  
将更加柔和自然。

## 五、规格参数

名称	TT520 II	TT560 II
闪光指数	33 (m ISO 100 )	38 (m ISO 100 )
闪光模式	M、S1、S2	
上下旋转角度	0-90度	
左右旋转角度	0-270度	
电源	4枚AA碱性电池或其他电池	
发光次数	100 - 1500次（使用AA碱性电池）	
回电时间	约0.1~5S（使用AA碱性电池）	
色温	5600K±200K	
无线频率	433MHz	
频道	16	
无线传输距离	15米	
闪光时间	1/300S-1/20000S	
体积	190*75*55mm	
净重	310g	

所含物品  
闪光灯 .....（1）      保护袋 .....（1）      微型底座 .....（1）  
说明书 .....（1）      RT发射器.....（1）

**深圳市神牛摄影器材有限公司**  
GODOX Photo Equipment Co., Ltd.  
地址/Addr: 深圳市宝安区福永镇福洲大道西新和村华发工业园A4栋  
Building A4, Xinxhe Huafa Industrial Zone, Fuzhou RD West, Fuyong  
Town, Baoan District, Shenzhen 518103, China  
电话/Tel: +86-755-29609320(8062)      传真/Fax: +86-755-25723423  
邮箱/E-mail: godox@godox.com      705-TT5220-00  
http://www.godox.com      Made In China      CE RoHS 回收 标志

Godox

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INSTRUCTION MANUAL



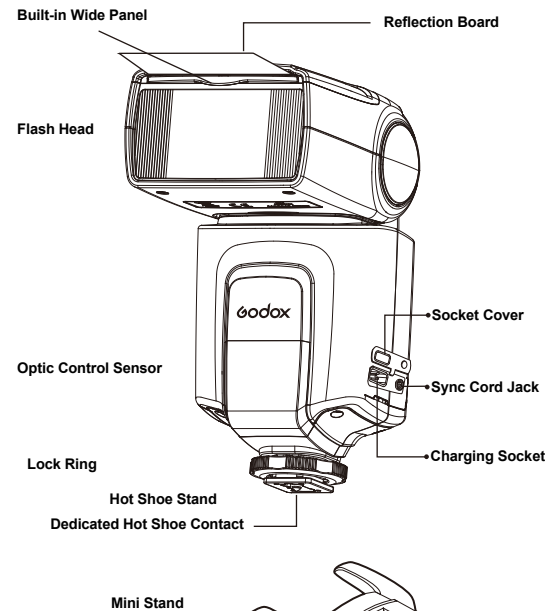
## FOREWORD

Thank you for purchasing GODOX product.  
Before use, please read this user manual carefully in order to ensure your safety. Keep it properly for reference in future.

## ! WARNING

- Always keep this product dry. Do not use in rain or in damp conditions.
- Do not disassemble. Should repairs become necessary, this product must be sent to an authorized maintenance center.
- Keep out of reach of children.
- Stop using this product if it breaks open due to extrusion, falling or strong hit. Otherwise, electric shock may occur if you touch the electronic parts inside it.
- Do not fire the flash directly into the eyes (especially those of babies) within short distances. Otherwise visual impairment may occur.
- Do not use the flash unit in the presence of flammable gases, chemicals and other similar materials. In certain circumstance, these materials may be sensitive to the strong light emitting from this flash unit and fire or electromagnetic interference may result.
- Do not leave or store the flash unit if the ambient temperature reads over 50 ℃. Otherwise the electronic parts may be damaged.
- Turn off the flash unit immediately in the event of malfunction.

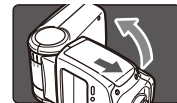
## I . NOMENCLATURE



Mini Stand

## II . INSTALLATION

### 1. Battery Installation



Open the battery cover

Slide the battery cover along the arrow direction and then open it by thumb.



Insert batteries

Install the batteries according to the direction indicated by the sticker in the battery holder and make sure the + and - battery contact are correctly inserted at the battery compartment.



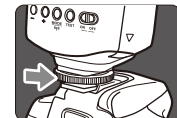
Close the battery cover

Slide the battery cover along the arrow direction and slide it back in place. The battery cover will be locked when there is a "click" sound.

### ! Attention:

- Take care of the hot battery when changing them after continuous flashes.
- Take out the battery when idle in case the battery leakage damages the flash unit.

### 2.Mounting the flash on the camera



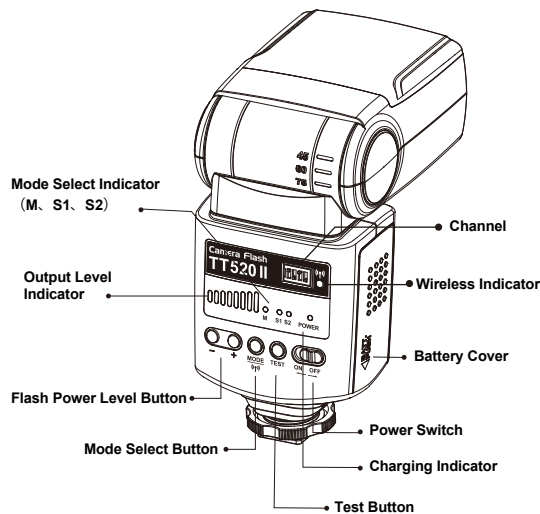
Twist the lock ring anti-clockwise to loosen it to the highest point. Slide the mounting foot of the flash into the hotshoe of camera.



Twist the lock ring clockwise to tighten it.



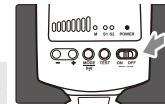
To remove the flash, loosen the fixed knob and slide it out of the hotshoe of camera.



## III. USING THE FLASH

### 1. Power management

After use, press the ON/OFF to OFF to power off.



- Switch to the ON, the flash will start charging (the charging indicator is dim).After several seconds, the charging indicator turns red and TT520 II /TT560 II is ready to shoot.
- For a test flash, press the test button. After use, press the ON/OFF to OFF to power off.
- If the red charging indicator lamp flickers in every 1s, it indicates low battery. In such case, the power will turn off automatically and you need to replace the batteries.

### 2.Power Control

- The flash unit has 8 steps of power output control which indicated by 8 pieces of LED lamp for different level.
- Press "+" to make power higher and they are 1/128,1/64,1/32,1/16, 1/8,1/4,1/2,1/1. Otherwise, press "-" to make power lower.

### 3.M Mode

Press the MODE key to M Mode. In this mode ,you can set TT520 II /TT560 II onto your camera hotshoe or speedlite trigger hotshoe to trigger the flash unit. When shooting, adjust the flash power and press the camera shutter, the flash light will flash under the camera synchronous signal.

### 4.S1 Mode

- Press the MODE key to S1 Mode. The mode is applicable for slave flash in order to create many lighting effects. It is respectively applicable for manual flash environment.
- When the flash is S1 mode, it will fire synchronously when the master flash fires, comparable with the effect by the use of radio trigger.

### 5.S2 Mode

Press the MODE key to S2 Mode. The mode is applicable for slave flash in order to create many lighting effects.The flash unit won't flash synchronously with the first flash but the second flash from the master flash, which is the second flash synchronization.

**Note:**  
The optic light sensor will stop functioning under M Mode.  
The hotshoe's trigger function will stop under S1 and S2 Mode.

### 6.Wireless Triggering Function

- As TT520 II/TT560 II has built-in wireless signal, please use RT transmitter as the transmitter end.
- Long press MODE button for 2 seconds to control the ON/OFF of wireless triggering function. When the wireless indicator lighted, wireless triggering function is ON; when the wireless indicator put out, wireless triggering function is OFF. To save power, turn off wireless triggering function when in idle use.

### 7.Sync Trigger Function

- The speedlite and camera will trigger synchronously by using a PC sync cord to connect the sync terminals of the camera and the speedlite together.

### 8.Power-saving Function

- To save battery power, the flash will enter stand-by state in about 30 minutes of idle use. Press any button to wake it up.
- In S1/S2 mode, the flash will enter stand-by state in about 60 minutes of idle use. Press any button to wake it up.
- In power-saving mode, the charging indicator flickers in every 3 seconds. Other indicators are turned off.

## 9.Protection Function

### ● Protection in continuous flashes

To prevent the flash head from getting too hot and damage, please do not flash over 20 times when in power level 1/2,1/1. Please cool down the flash unit for at least 10 minutes. The over-temperature protection function will be activated if you continue to flash after 20 times. In this state the charging time will turn to 10-25s. Please cool down the flash unit around 10 minutes and it will turn to normal state.

### Number of flashes that will activate over-temperature protection:

Power Level	Number
1/1	20
1/2	33
1/4	50
1/8	66
1/16,1/32	100
1/64, 1/128	200

### ● Systematic over-temperature protection

When the inner circuit is over-heating, which indicates over use of the flash unit, the inner circuit will shut down power automatically. The flash unit will turn to normal state after the inner circuit is cooled down.

## IV. ADVANCED APPLICATION

### 1.Bounce Lighting

Bounce flash means to take photos by bouncing the light off wall or ceiling to soften the light on the subject, and the shadow shade out, to get more desired picture.

### 2.Use Reflection Board to Take Photos

Pull out the refection board and built-in wide panel from the flash head at the same time and then push the built-in 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 (catch lights). This function can reach optimal effect when the flash head is up 90°.

### 3.Use Wide-angle Diffuser

Pull out the built-in wide panel to enlarge flash lighting range, so as to get more softened and natural lighting effect.

## V. SPECIFICATIONS

Model	TT520 II	TT560 II
Guide number	33 ( m ISO 100 )	38 ( m ISO 100 )
Flash mode	M,S1,S2	
Vertical rotation angle	0~90 degrees	
Horizontal rotation angle	0~270 degrees	
Power	4xAAsize batteries(Alkaline or Ni-MH are usable)	
Lighting times	100-1500 times (AA alkaline batteries used)	
Recycle time	approx 0.1-5s(AA alkaline batteries used)	
Color temperature	5600K±200K	
Wireless frequency	433MHz	
Channel	16	
Workable distance	15m	
Flash duration	1/300s~1/20000s	
Dimensions	190*75*55mm	
Net weight	310g	

### Accessories :

Flash light ..... (1)      Protecting bag ..... (1)      Mini stand ..... (1)  
User manual... (1)      RT transmitter..... (1)