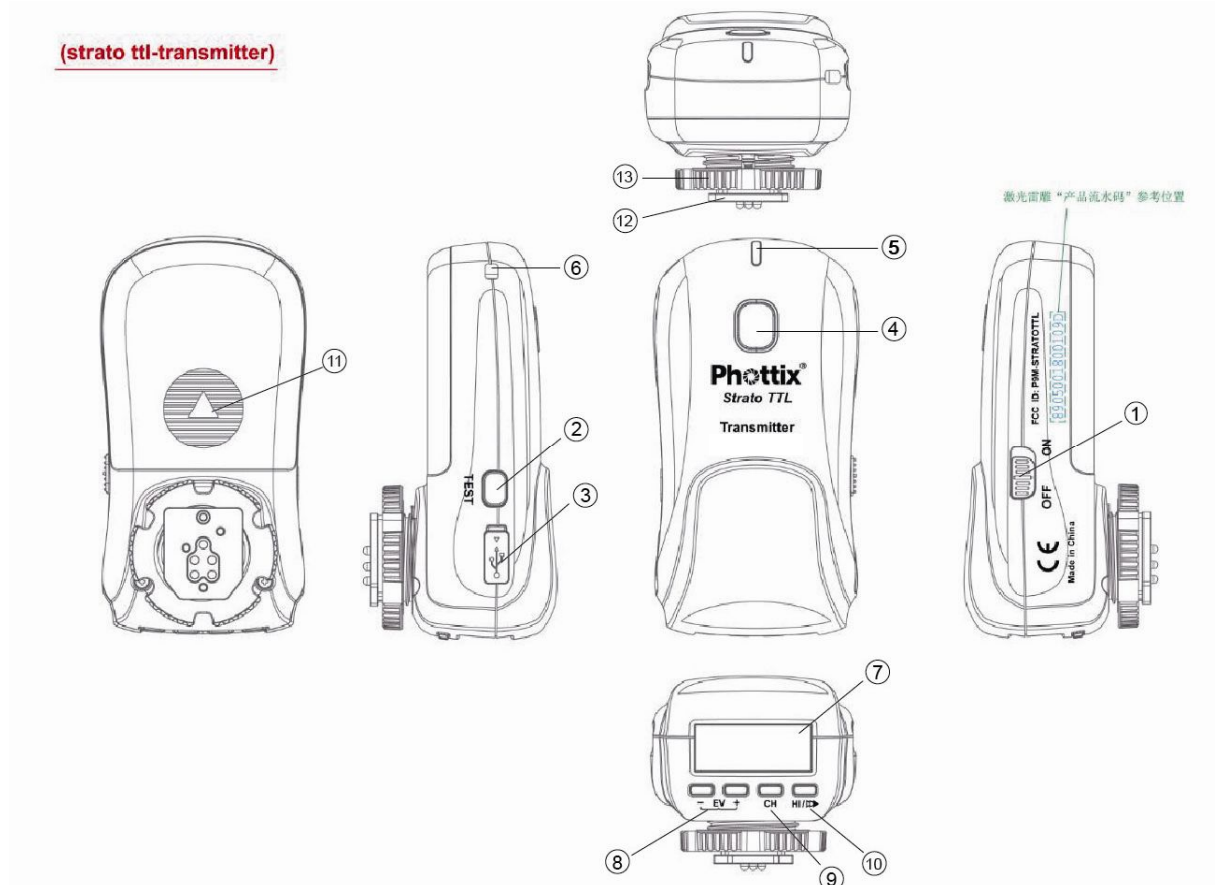


## Phottix Strato TTL Instructions

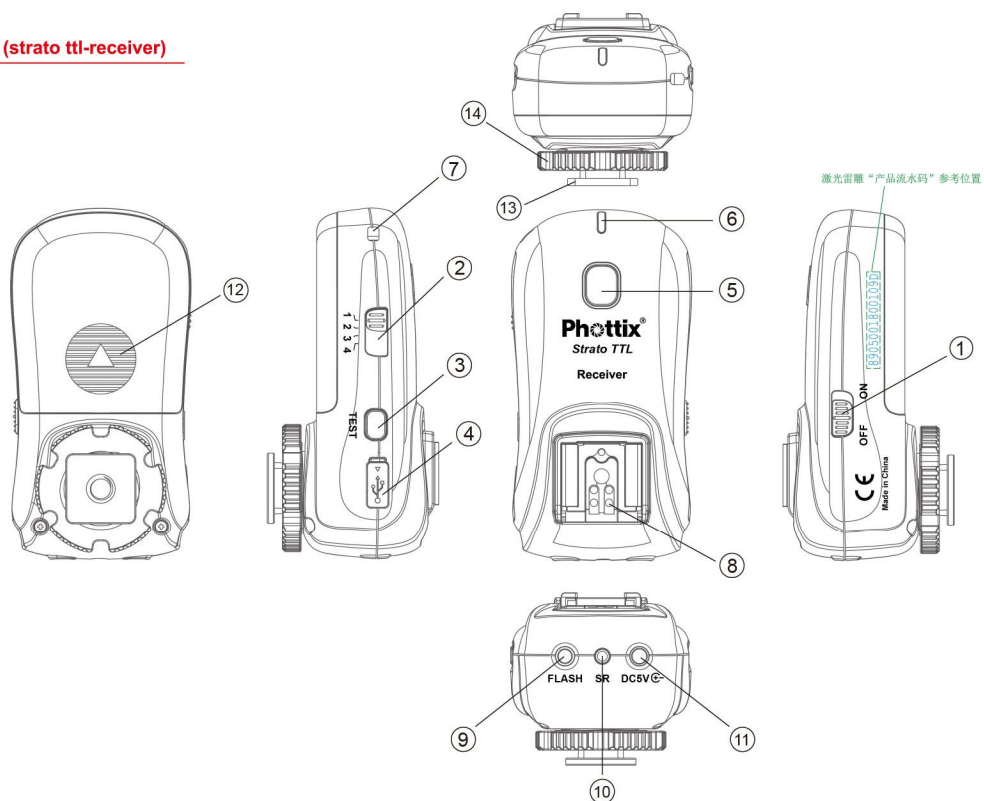
### Parts



#### Transmitter

1. Power Switch
2. Test Button
3. USB Port
4. Shutter Button
5. Status LED
6. Lanyard Slot
7. LCD
8. EV +/- Adjustment Buttons
9. Channel Selection Button
10. HSS / SCS Mode Button / Key Lock button
11. Battery Compartment
12. Hot Shoe Connector
13. Locking Ring

(strato ttl-receiver)



### Receiver

- 1.Power Switch
- 2.Channel Selection Switch
- 3.Test Button
- 4.USB Port
- 5.Shutter Button
- 6.Status LED
- 7.Lanyard Slot
- 8.Hot Shoe Port
- 9.Sync Cable Port
- 10.Shutter Cable Port
- 11.DC 5V Power Port
- 12.Battery Compartment
- 13.Cold Shoe / 1/4 x20 mount
- 14.Locking Ring

### The Transmitter LCD



Battery Level Indicator  
EV Adjustment Level  
Channel  
HSS, SCS, Standard Mode  
Key Lock Mode

Tip: Turn off all devices – flashes/strobes, cameras, and Phottix Strato TTL transmitters and receivers - when connecting and disconnecting devices.

### Compatibility



The Strato TTL Transmitter is compatible with other Phottix triggers in the following manner:

1. The Strato TTL Transmitter will trigger Strato and Strato II Receivers and Atlas II Transceivers (in RX mode) set to the same channel.
2. The Strato TTL Transmitter will trigger Strato II receivers set to any group. All Strato II Receiver groups will fire if set to the same channel as the Strato TTL transmitter.
3. The Strato TTL Transmitter will not trigger Phottix Odin or Ares.
4. Phottix Odin TCU or Atlas II (in Tx mode) or Ares Transmitter will not trigger Strato TTL Receivers.
5. Using the Strato TTL Transmitter in HSS mode may cause issues with flash sync when using Strato and Strato II Multi receivers or Atlas II Transceivers (in RX mode).

### Inserting batteries

1. Press the battery cover in while pushing it away from the Strato TTL transmitter or receiver. The battery cover will snap open and slide away from the device.
2. Remove the battery cover from the Strato TTL.
3. Insert AA batteries.
4. Replace the battery cover and push back into the locked position.

### Battery Level Indicator

When the battery voltage is higher than 2.4V, the battery level indicator icon will display four bars.  As power in the batteries is depleted the bars displayed in the battery level indicator icon will disappear. When the batteries are exhausted the battery level indicator will display an empty with battery icon. 



### LCD Backlight on the transmitter

Pressing any button on the transmitter will illuminate the LCD Backlight for approximately 10 seconds. If no buttons on the transmitter are pressed, the backlight will go off.

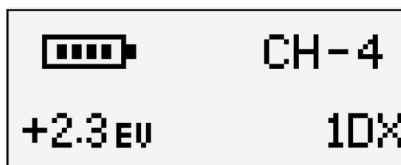
### **Auto-idle function**

The transmitter will enter Auto Idle Mode with "IDLE" displaying on the LCD after 30 minutes of inactivity.

### **Key Lock Mode**

1. Pressing and holding the HSS / SCS Mode Button / Key Lock button for 2 seconds will display a lock icon . Transmitter Buttons will be locked, pressing buttons will not make changes.
2. While in Key Lock Mode, pressing and holding the HSS / SCS Mode Button / Key Lock button for 2 seconds will unlock the transmitter and the lock icon  will disappear.

### **1Dx mode**



The Strato TTL Trigger comes with a 1Dx mode for better compatibility with this model of camera.

To Enable/Disable 1Dx mode:

1. Press and hold the "EV+" and "HI/SCS" buttons to enable 1Dx mode.
2. Press and hold the "EV+" and "HI/SCS" buttons again to disable 1Dx mode.

Please note:

- When the 1Dx mode is enabled, the flash sync mode will not support Second Curtain Sync (SCS) functions.
- If not using a 1Dx camera ensure this mode is disabled for best results.

### **Turning transmitter and receiver on/off**

1. To turn on the Phottix Strato TTL transmitter or receiver– move the power switch to the "ON" position.
2. To turn off the Phottix Strato TTL transmitter or receiver - move the power switch to the "OFF" position.

### **Test Button**

1. The Test Button will test fire flashes/strobes.
2. To Test: Press the transmitter Test Button. Flashes connected to Phottix Strato TTL receivers on the same channel will fire when the transmitter test button is pressed.
3. Pressing the receiver Test Button will test fire flashes or strobes connected to that receiver.

For Wireless Shutter Release: See Using the Strato TTL as a wireless shutter release below

### **Status LED**

1. The Status LED on the Strato TTL transmitter will turn solid green upon a half-press of the shutter button (on camera or the Strato TTL transmitter being used as a wireless

- shutter release) and turn red when sending a signal or taking a photo. When idle, the Status LED will flash green once every 2 seconds.
2. The Status LED on the Strato TTL receiver will flash green once every 2 seconds while the power is on and idle. The LED will turn red when a signal is received from the transmitter and the connected flash or camera is fired.
  3. When the battery level is low, the Status LED on the receiver will flash red once every 0.5 seconds.

### **Channels**

1. The Strato TTL System has 4 transmission channels: 1, 2, 3, 4.
2. Channels can be set on both the transmitter and receiver.

### **Setting Channels on the Transmitter**

1. Press the Channel Selection Button on the transmitter
2. Each press of the button will cycle through channels 1, 2, 3, 4
3. Make sure the transmitter channel is the same as the receivers
4. Channels are visible on the transmitter LCD

### **Setting Channels on the Receiver**

1. Move the Channel Selection Switch to settings 1, 2, 3, or 4
2. Make sure the receiver is set to the same channel as the transmitter.

### **Connecting Strato TTL transmitter to the camera hot shoe**

1. Turn off the camera and Strato TTL transmitter
2. Slide the Strato TTL transmitter into the camera's hot shoe mount.
3. Turn the Strato TTL locking ring until tight.
4. Turn on the Strato TTL transmitter.
5. Turn on the camera and set the shooting mode.

### **Connecting a flash to the Strato TTL receiver hot shoe**

1. Turn off the flash and the Strato TTL Receiver.
2. Slide the flash into the receiver's hot shoe mount.
3. Lock the flash with the flash's locking mechanism.
4. Turn on the flash and the Strato TTL receiver.
5. Set the flash to ETTL mode.

Please Note:

It is not unusual for the flash to discharge once after turning on the Strato TTL.

### **Using the Strato TTL to trigger flashes**

1. Half-press the camera shutter button while the Strato TTL transmitter is connected to the camera hot shoe and powered on. The AF assist light of flashes connected to Strato TTL receivers on the same channel as the transmitter will illuminate. The Status LEDs on the transmitter and receiver will turn green.
2. A full-press of the camera shutter button will fire flashes connected to Strato TTL receivers on the same channel as the transmitter. Status LEDs on the Transmitter and Receiver will turn red.

Please Note:

-Pressing the Shutter Button on the Strato TTL transmitter – flashes connected to receivers on the same channel will not fire.

-Pressing the Test Button on the Strato TTL transmitter – flashes connected to receivers on the same channel will fire.

### **Adjusting EV Levels**

The Strato TTL Flash Trigger System will fire remote flashes by wireless radio signal. EV Adjustments can be made to remote flashes using the EV +/- Adjustment Buttons on the transmitter.

#### **To adjust EV levels**

1. Press the EV +/- Adjustment Buttons on the Strato TTL Transmitter. Changes will be displayed on the transmitter.
2. Shoot and make additional changes as needed.

### **Using High Speed Sync (HSS) and Second Curtain Sync (SCS)**

Pressing the HSS/SCS button will cycle between HSS, SCS and standard operations. HSS will allow faster shutter speeds to be used when firing the flash. Shutter speeds up to 1/8000 sec. can be achieved with compatible cameras and flashes. SCS will fire the flash at the end of an exposure not at the beginning. This can be combined with longer exposures for creative effects.

1. Press the HSS / SCS Mode Button to cycle between HSS, SCS and standard mode.
2. Set the camera mode and shutter speed

Please Note:

At high shutter speeds the power of flashes is greatly reduced.

### **Supported Camera and Flash Settings**

The Phottix Strato TTL Trigger supports functions that can be set in camera menus. See your camera and flash manuals for full details. Functions not available on a camera body or flash cannot be used with the Strato TTL system.

1. Depth-of Field Preview Button (Modeling Flash): Pressing the Depth of Field Preview Button on the camera will causes flashes connected to receivers on the same channel (with the function enabled) to flash. This is useful for previewing lighting set-ups.
2. Autofocus Assist Light: The AF Assist Light of the flash connected a Strato TTL Receiver on the same channel as a transmitter will illuminate when needed to assist with focus (if the function is enabled).
3. Sync Mode: The Strato TTL supports Sync Mode settings for the flash through camera menu "Shutter Sync." First Curtain Sync, Second Curtain Sync and High Speed Sync can be enabled on the camera through this menu.
4. Exposure Lock (FEL): The flash exposure can be manually tested and locked by pressing the AE-L/AF-L button on the camera.
5. Exposure Compensation: The Strato TTL system supports exposure compensation setting for the flash from the camera menu / controls.
6. Zoom: Flash head zoom can be controlled in two ways (when a flash is set to "Auto" zoom mode, not manual zoom. See your flash manual for further details) If the focal length of a

camera zoom lens is changed, the zoom of a flash connected to a Strato TTL Receiver on the same channel as a transmitter will change dynamically. When flash zoom is changed from a camera menu the zoom of a flash connected to a Strato TTL Receiver on the same channel as a transmitter will also change correspondingly.

7. Metering Mode: Setting Average or Evaluative metering mode for the flash through camera menu is supported.
8. Changing Channels: After enabling wireless flash functions on the camera, flash transmission channels can be changed in the camera menu. Changes made to channels in the camera menu will change the working channel of the Strato TTL Transmitter on the camera.

Please note:

- If the "wireless flash functions" in the camera set-up menus has been enabled Second Curtain Sync Functions will not work. The "Wireless flash functions" selection needs to be disabled to use Second Curtain Sync functions.

#### **Connecting the Strato TTL receiver to flashes or studio lights by sync cable**

1. Turn off the flash/studio light and the Strato TTL receiver.
2. Connect a cable to the receiver's 3.5 mm Sync Port.
3. Connect the opposite end of the cable to a flash or studio strobe (A 6.3 mm adapter is included for studio strobes with larger ports).
4. Turn on the flash/strobe and the Phottix Strato TTL receiver. Set the flash/strobe to Manual mode (if applicable).
5. Press the Shutter Button of the camera connected to the transmitter -- flashes connected to the receivers on the same channel will fire

Please note:

- It is not unusual for the flash to discharge once after turning on the Phottix Strato TTL.  
- Flashes connect to Strato TTL receivers by cable will have no TTL, HSS or SCS functions, only simple triggering

#### **Using the Strato TTL as a wireless shutter release\***

1. Turn off the camera and the Phottix Strato TTL receiver.
2. Attach the correct Phottix Accessory Cable for your camera make and model to the 2.5 mm Accessory Port on the Strato TTL receiver
3. Attach the other end of the cable to the camera's remote port.
4. Turn on the camera and Phottix Strato TTL receiver. Consult your camera manual for specific settings for remote use.
5. Using the Phottix Strato TTL transmitter will allow for remote wireless shutter release functions. The Strato TTL shutter button functions the same as a camera shutter button: A half-press of the shutter button will autofocus, a full press will take a photo.

Please Note:

When using the transmitter as a wireless shutter release, pressing the shutter button on the transmitter will only trigger cameras connected to receivers on the same channel. It will not fire the flashes connected to the receivers on the same channel.

\*On compatible cameras

### **Using the Strato TTL as a wired shutter release\***

1. Turn off the camera and the Strato TTL receiver.
2. Attach the correct Phottix Accessory Cable for your camera make and model to the 2.5 mm Accessory Port on the Strato TTL receiver
3. Attach the other end of the cable to the camera's remote port.
4. Turn on the camera and Strato TTL receiver\*\*.
5. Consult your camera manual for specific settings for remote use.
6. The Strato TTL receiver will function as a wired shutter release. The shutter button functions the same as a camera shutter button: A half-press of the shutter button will autofocus, a full press will take a photo.

\*On compatible cameras

\*\*Wired Shutter Release function can be used without turning on the Strato TTL receiver, and will function without batteries in the receiver.

### **Warnings**

- This product is a precise electronic instrument. Do not expose to damp environments or dust.
- Do not drop or crush.
- Do not use harsh chemical(s) or solvents to clean the body. Use a soft cloth or lens paper.
- Interference: The Phottix Strato TTL transmits and receives radio signals at 2.4 GHz. Its performance can be affected by electrical current, magnetic fields, radio signals, wireless routers, cellular phones, and other electronic devices. Environmental objects, such as large buildings or walls, trees, fences, or cars can also affect performance. If your Strato TTL receiver will not trigger move its location slightly.

### **Technical Specifications:**

Transmitting power:  $\leq 10\text{dBm}$

Distance: 100m+

Frequency: 2.4GHz

Channel: 4 channels

Input voltage: 2.2V-3.2V

Flash port voltage handling: Transmitter 6V; Receiver  $\leq 300\text{V}$

Batteries: 2xAA alkaline batteries or rechargeable batteries (Transmitter and Receiver); 5V

DC on Receiver (external power port)

Max sync speed: 1/8000s

Output: hot shoe, 3.5mm (Receiver)

Input: USB port (transmitter and Receiver)

Attachment: 1/4" tripod lug, cold shoe (Receiver)

Weight: Transmitter 74g; Receiver 72g---without batteries



Body dimension: Transmitter L 92.5 \* W 47.8 \* H 45.5 mm; Receiver L 93.3 \* W 46.7 \* H 45.4 mm

Antenna: Built-in PCB antenna

Operating temperature: 0°C ~ +50°C

Operating humidity: 35% ~ 95% RH

## **FCC Compliance Information**

### **For Transmitter**

**Company:** Phottix (HK) Ltd.

**Name:** Phottix Strato TTL Flash Trigger Transmitter

**Model Number:** Strato TTL Transmitter

**FCC ID:** P9M-STRATOTTL

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.

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.

**For Receiver**

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.