

## Phottix Odin TTL Trigger for Canon

### Parts

#### Transmitter Control Unit (TCU)



1. LCD Screen
2. Options Button
3. Mode Button
4. Zoom Button
5. Power Button
6. LED
7. + / - / Selection Buttons
8. Test Button
9. Clear Button
10. High Speed Sync / Second Curtain Sync Button
11. LCD Backlight Button
12. USB Port
13. Battery Compartment
14. Locking Ring
15. Hot Shoe

**Please Note:** After adding turning on the Phottix Odin TCU and receivers you must take one photograph for the TCU to “learn” about your camera and flashes. [The first shot you take will not be properly exposed. Subsequent images will be correct.](#)

[Slave mode does not need to be set on flashes on Phottix Odin receivers.](#)

Many TTL flashes have been tested but the manufacturer cannot guarantee that all third party TTL flashes will function properly with the Phottix Odin. It has been designed and optimized for original Canon flashes using the ETTL II system.

**Tip:** Turn off all devices – flashes/strobes, cameras, and the Phottix Odin TCU and receivers - when connecting and disconnecting devices.

### **Upgrading firmware by USB**

The firmware of the TCU and receivers can be upgraded using the included USB cable. Any upgrades and full instructions will be announced on the Phottix Blog ([journal.phottix.com](http://journal.phottix.com)).

### **LED functions**

The LED on the TCU and receiver units will turn green when the camera is focusing and red when a photo is being taken.

### **Inserting batteries**

1. Press the battery cover in while pushing it away from the Phottix Odin TCU or receiver. The battery cover will slide open.
2. Remove the battery cover.
3. Insert AA batteries as shown.
4. Replace the battery cover and push back into the locked position.
5. [When the battery power icon on the TCU shows low battery levels change the batteries.](#)
6. [When the power is very low, the LED will flash red light every 2 seconds.](#)

### **Turning the TCU and receiver on/off**

1. To turn on the Phottix Odin TCU: Press and hold the Power Button until an image appears on the LCD screen. To turn off: Press and hold the Power Button until the LCD screen goes blank.
2. To turn on the Phottix Odin receiver: Move the power switch to the "ON" position. Turn off the receiver by moving the power switch to the "OFF" position.

### **Groups and Channels**

1. The Phottix Odin System has 3 groups: A, B, and C, and 4 transmission channels: 1, 2, 3, 4.
2. Receivers can be assigned both group and channel designations.
3. The transmitter will allow [power levels and changes to be set for each group](#). Unless turned off on the TCU, all receivers set to the same channel and group will fire.

### **The TCU**

#### **Connecting to the camera hot shoe**

1. Turn off the camera.
2. Slide the Odin TCU into the camera's hot shoe mount. Turn the TCU locking ring until tight.
3. Turn on the Odin TCU (see above).
4. Turn on the camera.

### **Functions**

The TCU has two main function screens: [TTL/Mixed and Ratio](#).

[TTL/Mixed](#) allows groups A, B and C to be set to TTL, Manual or OFF with adjustments to EV or power levels.

Ratio is similar to Canon's native TTL system. The ratio of groups A and B can be set from 8:1 to 1:8. EV levels can also be adjusted.

#### **To change function screens:**

Press the Option button on the TCU. [The Option Button will switch between TTL/Mixed and Ratio screens.](#)

#### **TTL/Mixed Functions Screen**

The Selection Button allows you to cycle through groups A, B, and C, and Channel selections. Active selections will flash on the LCD. The - / + buttons will change the EV adjustments or Power Level while groups A, B or C are selected and will change the transmission channel (1, 2, 3 or 4) when Channel is selected. [This will change the channel the TCU uses to transmit.](#)

#### **TTL / M / Off**

While groups A, B or C are selected, pressing the Mode button will change from TTL, (M) Manual, or Off functions.

TTL: Will fire flashes using TTL metering. The EV level of each group can be adjusted up or down (see above)

M: Flashes can be set in Manual mode and [power levels](#) adjusted.

Off: Selecting Off (signified by three underscores \_ \_ \_) will turn off the selected group and not fire any remote flashes in that group.

#### **Ratio Functions Screen**

The Selection Button allows you to cycle through ratio A:B adjustment, EV adjustment and Channel selections.

Press the Selection button to access ratio adjustments. Press the + / - button until the desired A:B ratio is achieved.

Pressing the Selection button again will move the active selection to the EV adjustment section. Press the + / - button until the desired EV level is achieved.

Transmission channels can be changed when CH is active. This will change the channel the TCU uses to transmit.

#### **Adjusting flash zoom**

The Phottix Odin allows the zoom level of flashes to be set wirelessly. Zoom can be set as TTL or Manual. When TTL is selected: [The flash zoom setting will change dynamically as a camera zoom ring is adjusted. In Manual mode, the flash zoom can be set.](#)

### Using Zoom:

1. Press the Zoom Button to enter the Zoom screen.
2. Pressing the Selection button will cycle through groups A, B and C, and Transmission channel.
3. Note: Pressing the Selection button after the CH selection will return to the TTL/Mixed or Ratios Function Screens.
4. With groups A, B or C active: Press the Mode Button to change from TTL to Manual mode. In Manual Zoom, press the - / + buttons to adjust the flash zoom. No adjustments can be made in TTL mode.

### Using the Clear Button:

1. The Clear Button will erase any setting currently in the TCU.
2. Press the Clear button to remove TT/M/Off, Ratio, Zoom and EV settings currently in the TCU.

### Using the Test Button

The test button will fire all flashes connected to Phottix Odin receivers that are on the same channel as the TCU.

1. Press the Test button.
2. Flashes will fire in sequence: Group A, followed by Groups B and C.

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

Pressing the HSS/SCS button will cycle between HSS, SCS and standard operations.

1. HSS will allow shutter speeds longer than a compatible cameras specified shutter speed to be used. Shutter speeds up to 1/8000 sec. can be achieved with compatible cameras and flashes.
2. Note: At high shutter speeds the power of flashes is greatly reduced. EV or power levels cannot be adjusted when HSS is used.
3. 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.

### Using the LCD Backlight.

The LCD Backlight Button will turn the LCD Backlight on for approximately 10 seconds. If no buttons on the TCU are pressed the light will go off.

### Technical Specifications

Frequency: 2.4 GHz

Distance: 100m+

Channels: 4 channels

Groups: 3 groups – A, B, C

Batteries: 2 x AA batteries

Max sync speed: 1/8000 sec\*

Input: USB port (transmitter and receiver)

Input voltage: 2.4-3.2V

Flash port voltage handling: 6V (transmitter)

Body dimensions: 94(L) x 66(W) x 35(H) mm, (transmitter),

Antenna: built-in PCB antenna

Weight: 105g (transmitter)– without batteries

Operating temperature: -15—65 °C

Storage temperature: -30—85 °C

\* On compatible cameras / flashes

### **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 Odin 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 Phottix Odin receiver will not trigger move its location slightly.

**FCC ID: XBYFKT05ZA**

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.