

Odin II TTL Flash Trigger for Canon

Thank you for purchasing a Phottix product

Note: Before using the Odin II TTL Flash Trigger for Canon, please read this instruction manual carefully.

Odin II TTL Flash Trigger is a new generation of TTL triggering system based on the previous Odin TTL Flash Trigger. While keeping the Odin system's core functions such as of wireless power level adjustment, zoom adjustment and etc, the new system has been added with a series of innovative functions to extend its utility and stability, including group/channel/ID settings, AF assist light, wireless modeling light brightness control. A whole new structural design allows for easier and faster to operation.

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

Please Note:

1. After turning on the Phottix Odin II transmitter and receivers, slave mode does not need to be set on flashes on Photix Odin II receivers, but flashes need to be set in ETTL mode.
2. Ensure there is a good hot shoe connection between the transmitter and camera, flashes and receivers for best performance.
3. Many TTL flashes have been tested but the manufacture cannot guarantee that all third party TTL flashes will function properly with the Phottix Odin II. It has been designed and optimized for original canon flashes using the ETTL II/ETTL system.
4. Turn of all devices-flashes/strobes, camera, and the Phottix Odin II transmitter and receivers when connecting and disconnecting the devices.

FCC Interference Statement:

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.

FCC Radiation Exposure Statement:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or

operating in conjunction with any other antenna or transmitter.

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.*

The product is classified as Class 3R laser product, according to the following standards IEC/EN 60825-1 "Radiation Safety of Laser Products."

Class 3R: *A Class 3R laser is considered safe if handled carefully, with restricted beam viewing. With a class 3R laser, the MPE can be exceeded, but with a low risk of injury. Visible continuous lasers in Class 3R are limited to 5mW. For other wavelengths and for pulsed lasers, other limits apply.*



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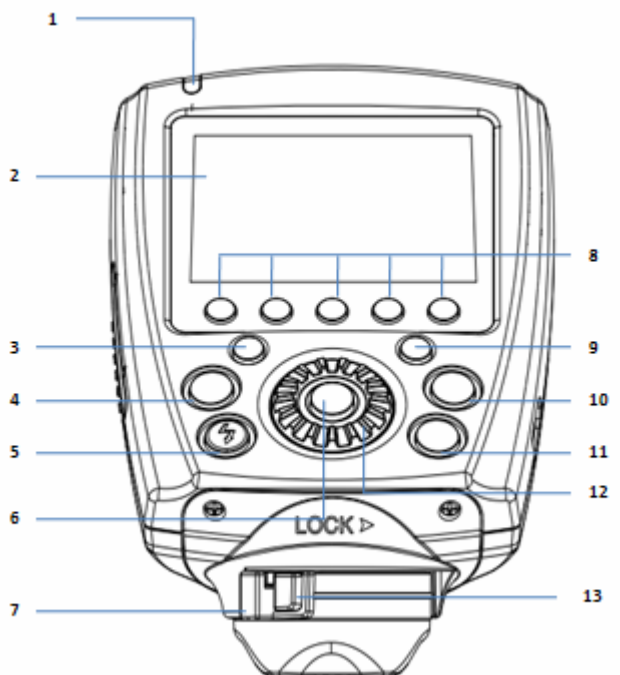
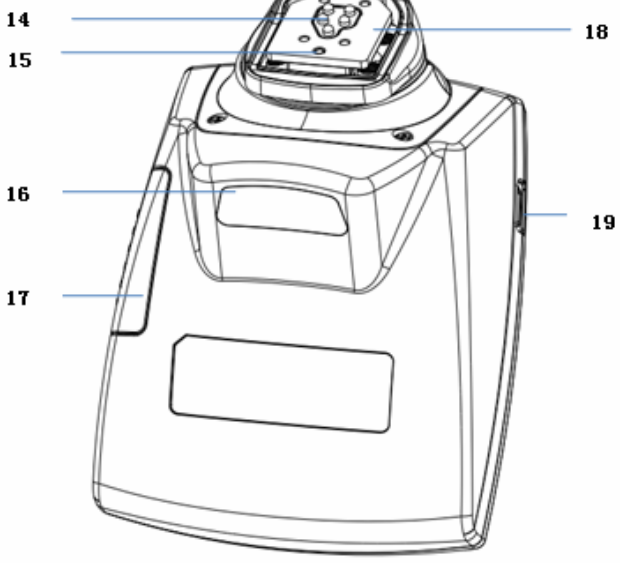
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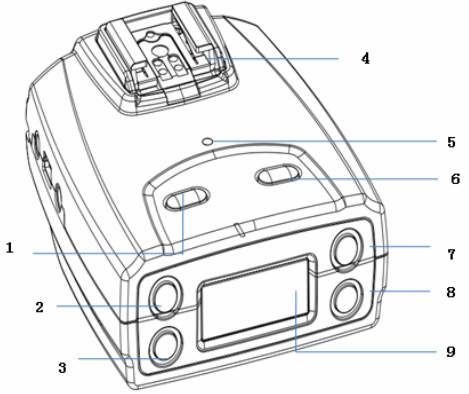
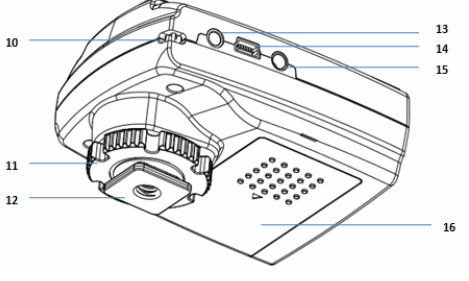
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I. Parts

Transmitter

1. LED Indicator 2. LCD Screen 3. Zoom Button 4. Mode Button 5. Test Button/Flash Exposure Confirmation Lamp 6. <●>: Select/Set Button 7. Locking Ring 8. Group Button (From right to left are A, B, C, D, E consecutively) 9. Power Button/Menu Button 10. High Speed Sync Button (HSS) 11. Modeling Light Button 12. <⊙>: Select Dial 13. Lock-release Button	 A line drawing of the front of the transmitter. It features a large LCD screen at the top, a row of five circular buttons below it, and a central rotary dial. Below the dial are several more buttons, including a 'LOCK >' button. A locking ring is located at the bottom of the front panel. Numbered callouts point to various components: 1 (LED indicator), 2 (LCD screen), 3 (Zoom button), 4 (Mode button), 5 (Test button), 6 (Select/Set button), 7 (Locking ring), 8 (Group buttons), 9 (Power/Menu button), 10 (HSS button), 11 (Modeling light button), 12 (Select dial), and 13 (Lock-release button).
14. Contacts 15. Locking Pin 16. AF Assist Light 17. Battery Compartment 18. Mounting Foot 19. USB Port	 A line drawing of the back of the transmitter. It shows the mounting foot at the top, the battery compartment in the middle, and the AF assist light and USB port at the bottom. Numbered callouts point to: 14 (Contacts), 15 (Locking pin), 16 (AF Assist light), 17 (Battery compartment), 18 (Mounting foot), and 19 (USB port).

Receiver

1. Power Button 2. Channel Button/Select Button+ 3. Group Button/Select Button- 4. Hot Shoe 5. LED Indicator 6. Test Button 7. ID Button/Digit select Button 8. Exit Button 9. LCD Display	
10. Carrying Strap Slog 11. Locking Ring 12. Cold Shoe/ 1/4" Tripod Lug 13. 3.5mm Output Port 14. USB Port 15. 5V DC Power Port 16. Battery Compartment	

II. Preparation Before Use

Installing the Batteries

1. Press the battery compartment cover on Phottix Odin II transmitter and receiver, slide it down as directed to open the battery cover.
2. Insert the batteries. Make sure the "+" and "-" battery contacts are correctly oriented as shown. (Note: Please use 2 pieces of AA alkaline batteries or AA type NI-MH batteries.
3. Replace the battery cover and push back into the locked position.
4. When  (transmitter) and  (receiver) are displayed, please replace the batteries with new ones.

Attaching and Detaching the Odin II

Attaching the Odin II transmitter to the camera hot shoe:

1. Turn off the camera and transmitter
2. Align the transmitter hot shoe with camera's hot shoe mount.
3. Slide the transmitter all the way into the camera's hot shoe mount.
4. Lock release: press the lock-release button while slide the lock lever all the way back to the left.

Attaching the flash to the Odin II receiver

1. Insert the flash hot shoe all the way into the receiver's hot shoe mount
2. Lock the flash with the flash's locking mechanism.
3. Detaching: Release the lock of flash according to its locking mechanism, and then slide the flash out of the receiver's hot shoe mount.

Attaching the Odin II Receiver to Studio Lights or Flashes by Cable

1. Turn off the flash/strobe and the Odin II receiver.
2. Connect a cable to the receiver's 3.5 mm output port.
3. Connect the opposite end of the cable to a flash or studio strobe
4. Turn on the flash/strobe and Odin II receiver
5. Set the flash to Manual mode – no ETTL functions can be used when a compatible flash is triggered by cable.

Turn on/off the Transmitter and Receiver

1. Turn On: Press and hold the power button until MENU interface is displayed on screen.
2. Turn off: Press and hold the power button until the LCD screen goes blank.

Firing Group, Channel and ID Setting

1. The Phottix Odin II system has up to 5 groups: A, B, C, D, E, 32 channels and settable IDs from 0000 to 9999.
2. Receivers can be assigned group, channels and ID designation.
3. The transmitter will allow EV, Power level and Zoom setting adjustments to be set for each group of receivers set the same channel and ID (unless the group is set to OFF on the transmitter).
4. Set the channel, group and ID as following
 - 1) The channel, group and ID of transmitter can be set in the custom function. For operations, please refer to Custom Function setting.
 - 2) Set the channel for receiver: press  button; the channel parameter will flash on the LCD screen; Press  or  button to set the channel; press  button to exit the setting mode.
 - 3) Set the group for receiver: Press  button; the group parameter will flash on the screen; press  or  to set the group; press  button to exit the setting mode.
 - 4) Set the ID for receiver: Press  to choose the ID digit to be set; press

⊕ or ⊖ to set the ID value for the chosen digit; Press ↩ to exit the setting mode. Repeat the operation to set value for the 4 ID digits one by one.

Note: The Odin II is at its compatibility mode with Odin I when set to 1-4 channels. Under the mode, the transmitter can only control 3 groups (A, B, C), the group D and E will not be displayed on the screen, nor can the IDs be settable.

Upgrading firmware by USB

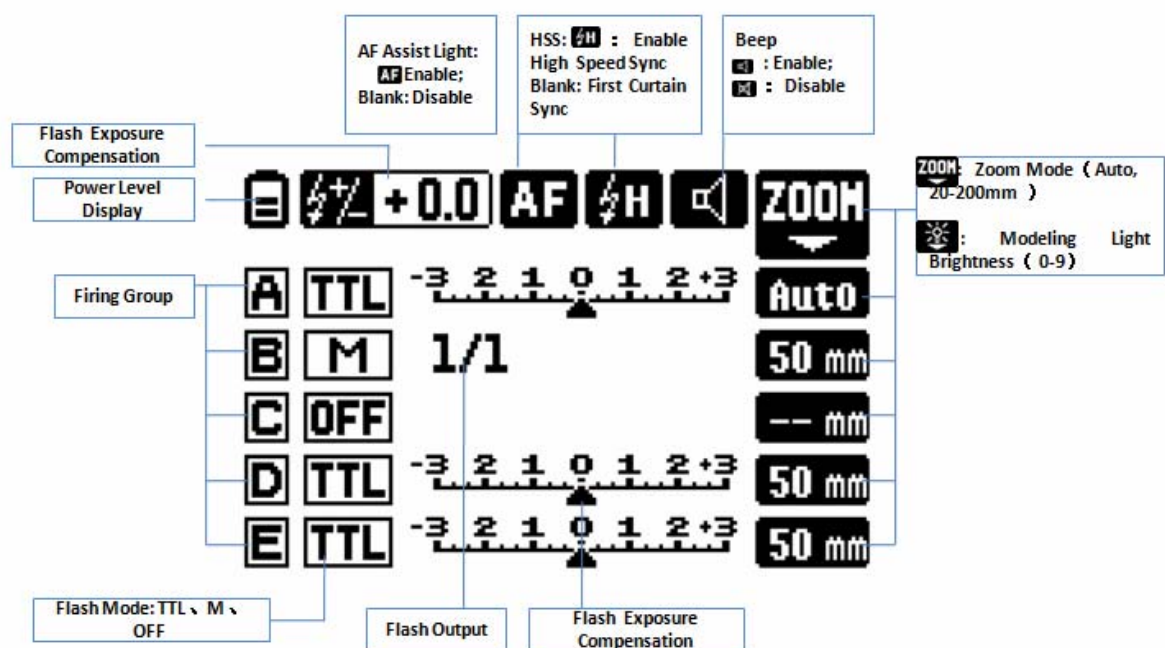
The firmware of the transmitter and receivers can be upgraded using the included USB cable. Any upgrades and full instructions will be announced on the Phottix blog (journal.phottix.com).

III. LCD Display

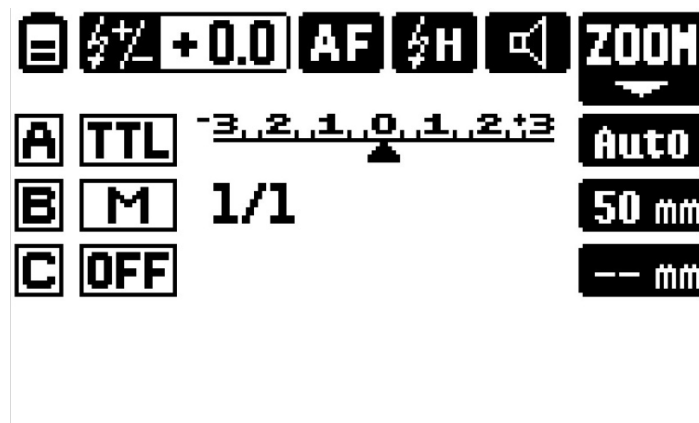
Transmitter

The transmitter has two working modes: TTL/M Mixed Functions and Ratio Functions. The two different working modes are displayed as following:

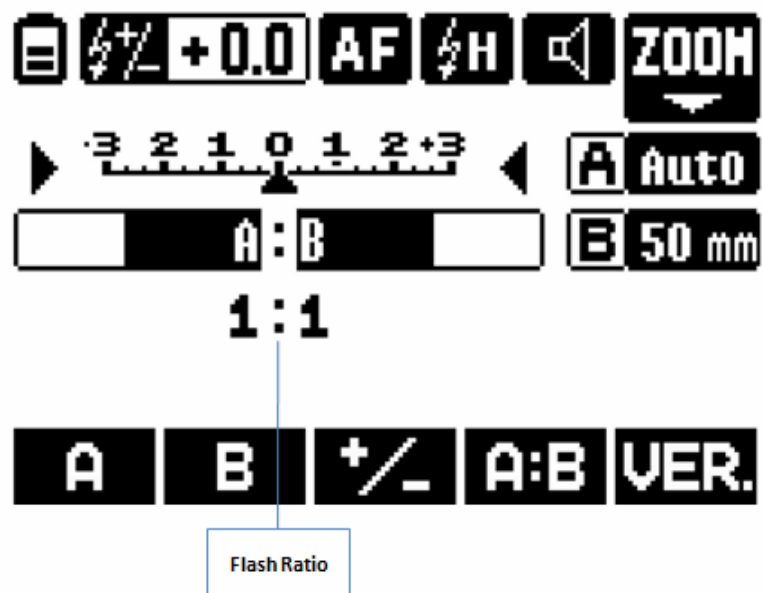
TTL/M Mixed Functions Screen (channel 5-32):



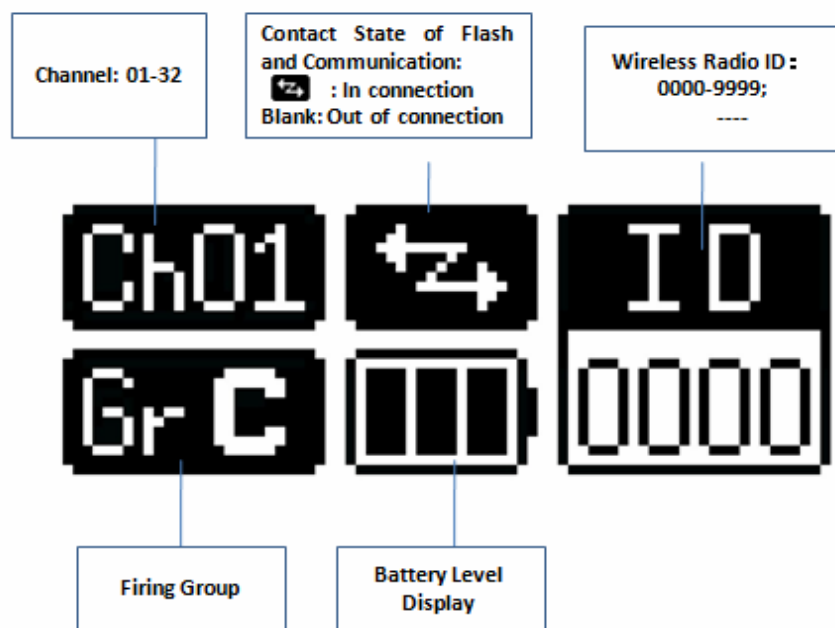
TTL/M Mixed Functions Screen (channel 1-4) :



Ratio Functions Screen



Receiver



IV. Functions and Operations

To Set the Working Mode

TTL/M Mixed Functions Screen allows you to set to TTL, Manual and OFF for A/B/C/D/E independently, along with the EV and Power Level for each group.

The Ratio Functions Screen is similar to a original Canon TTL system. You can set the flash ratio for group A and B from 8:1 to 1:8, and the EV as well.

Pressing the  button on transmitter will cycle through TTL/M TTL/M Mixed Functions and Ratio Functions.

TTL/M Mixed Functions

To set flash mode for each group: Press the group button to choose the group to set, and then press  button to choose the flash mode from TTL, Manual and OFF.

TTL: Will fire flashes using TTL metering. The EV level of each group can be adjusted within ± 3 stop in 1/3-stop increment.

Manual: Flashes are set in Manual mode and power levels adjusted within 1/1-1/128 in 1/3-stop increment.

OFF: Selecting OFF will turn off the selected group and not fire any remote flashes in the group.

To adjust the EV Level or Power Level for each group: Press group button to choose the group to set, turn  to set the EV or Power Level for the selected group.

Upon adjustment, press  button on transmitter to exit the setting mode.

Ratio Functions

1. To set the Flash Ratio

Press  button corresponding to **A:B**, turn  to set the flash ratio from 8:1 to 1:8 in 1/2stop increment.

Upon adjustment, press  button to exit the setting mode.

2. Check the Version Info

The Odin II transmitter allows for check the version information at the Ratio Functions Screen. Press  button to display the Ratio Function Screen, and then press  button corresponding to **VER.** to display the current version information of the transmitter.

LED Indicator

When left idle, the LED indicators on transmitter and receiver will flash green at certain frequency. When the camera is in action of focusing, the indicators will light green; while in action of shooting, the indicators will light red.

Modeling Light Button

Pressing the modeling light button on the transmitter will allow you to adjust the modeling light brightness (0-9 grades) of Phottix Indra studio light series:

Press  button to display the screen for modeling light brightness adjustment; press the group button to choose the group to set; turn  to set the brightness level of modeling light. Repeat the above operation to set the brightness level of modeling light for each group.

Press  button to exit the setting mode.

Note: The function is not available for hot shoe flashes.

LCD Backlight

The backlight will light up for 8 seconds when pressing any button on the transmitter and then go off if no buttons are pressed. You can enable or disable the LCD backlight by setting custom function.

Test Button/Flash Exposure Confirmation Lamp ()

1. Pressing the test button will cause to A/B/C/D/E group to fire simultaneously, conditioned that the flash attached to receivers are set to the corresponding channel and group and ID.
2. The flash exposure confirmation lamp will light red when the transmitter is left un-operated. While the camera is focusing, the lamp will turn out and after pressing the shutter, the lamp will light green.

To Adjust the Flash Zoom

Phottix Odin II allows the zoom level of flashes to be set wirelessly as Auto or Manual:

Auto Zoom: Flash zoom setting will change dynamically as a camera zoom ring is adjusted.

Manual Zoom: Flash zoom can be set to a fixed value on the transmitter. Any changes made to camera zoom will not affect this setting.

1. When adjusting the flash zoom wirelessly, set the flash on receiver to Azoom.
2. Set the Odin II transmitter as following:
 - 1) Press the zoom button to display zoom setting screen.
 - 2) Press group button to select to group to set, turn  to set the zoom mode to Auto or simply adjust the zoom manually from (20-200mm) . Repeat the operation to set zoom value for each group one by one.
 - 3) Press  button to exit the zoom setting screen.

Flash Exposure Compensation (EV)

You can adjust the EV for all the groups altogether within ± 3 in 1/3-stop increments on Odin II transmitter. See below:

1. TTL/M Mixed Functions Screen:

Press  button to display the EV setting screen, turn  to set the EV and then press  to exit the screen.

2. Ration Function Screen

Press  corresponding to , turn  to set the EV and then press  button to exit the setting mode.

HSS Function ()

HSS will allow shutter speeds longer than a compatible camera specified shutter speed to be used. Shutter speed up to 1/8000 sec. can be achieved with compatible cameras and flashes.

1. Press  button to enable HSS. Icon  will be displayed on the LCD screen.
2. Press  button again to disable the HSS function and switch to first curtain sync.

High Speed Continuous Shooting

Using the Phottix Odin II will result in slower continuous high speed shooting than can be achieved when using a flash directly on the camera. There are differences in metering between the Phottix Odin system related to groups and the pre-flashes than Canon's native system.

Note:

1. High speed continuous shooting function cannot be set on the Odin II transmitter.
2. High speed continuous shooting function needs to be set on camera. Refer to your camera manual for specific menu settings.

AF Assist Light

In low light/contrast situation, you can enable the AF assist light on transmitter by setting custom function. The transmitter's built-in Auto Focus Assist Light will illuminate to assist with AF. The AF Assist Light on the front of the transmitter will project a focusing target on the subject. As laser light, the AF assist light is featured less decay, good directionality and assist performance.

Note: The laser AF assist light is safe with optical power less than 5mW. Please avoid pointing the light at human eyes.

ODS Functions

When shooting with a strobe light (IGBT controlled light in particular) in HSS mode, adjusting the ODS value properly will in some way help with a high speed sync issue. You can set the ODS value in the custom function.

The ODS function's performance varies with camera models, working modes of strobes and the flash duration times. What works with one brand and model and studio light may not work with another.

Note:

1. Please only use the ODS function for irregular situation. Set it to default when not using the function.
2. When the shooting conditions are changed, please reset the ODS value.

Shortcut Keys

To enable IDLE mode: Press and hold  and  simultaneously for approx. 2s.

Compatibility with Phottix Flashes/Strobes/Flash Triggers

Master Unit	Slave Units	Support TTL&M Info Transmission?
Odin II Transmitter	Phottix Odin TTL Receiver for Canon	YES
	Phottix Strato Receiver for Canon	NO
	Phottix Strato II Multi Receiver for Canon	NO
	Phottix Mitros+ Transceiver Flash for Canon ODIN RX Mode	YES
	Phottix Indra PPL500 Studio Light Odin-C Mode	YES
	Phottix Indra 360 TTL Studio Light Odin-C Mode	YES
	Phottix Indra PPL500 Studio Light Strato II Mode	NO
	Phottix Indra 360 TTL Studio Light Strato II Mode	NO
Phottix Odin TTL Transmitter for Canon	Odin II Receiver	YES
Phottix Mitros+ Transceiver Flash for Canon ODIN TX Mode	Odin II Receiver	YES

Note:

- 1) Set the master unit and slave units to the same channel and corresponding groups.
- 2) Strato receiver comes without group selection. It can be triggered by any group of Odin II transmitter at the same channel.
- 3) When using Odin II transmitter with Strato/ Strato II Multi receiver, the flash attached to the receiver has to be set to Manual mode.
- 4) When using Odin II transmitter with Strato/ Strato II Multi receiver in HSS mode, the flash may not be able to sync.
- 5) Strato and Strato II Multi transmitter cannot trigger a Odin II receiver.

V. C.Fn: Setting the Custom Function

Odin II transmitter comes with a number of programmable custom functions. To edit those functions, see below:

1. Press  to display the custom function screen.

2. Turn  to select an item to set and press  button.
3. Turn  to select the setting and press  to confirm the setting.
4. Press  to exit the custom function setting screen.

Custom Functions Chart

Custom Function No.	Functions	Setting No.	Setting and Descriptions
01	CH	01-32	Channel setting
02	ID	0000-9999	ID setting (channel 5-32)
03	BEEP	ON	Enable beep function
		OFF	Disable beep function
04	A.F.	ON	Enable AF assist light
		OFF	disable AF assist light
05	SLEEP	ON	Enable idle mode when the transmitter is not operated for 5 min.
		OFF	Disable idle mode
06	B.G.LIGHT	ON	Enable LCD backlight
		OFF	Disable LCD backlight
07	ODS	0.0-5.0	Delay time for high speed
08	TTL PREF	±3 stops in 1/3-stop increments	TTL personal preference
09	LCD	1/5, 2/5, 3/5, 4/5, 5/5	LCD panel display contrast

10	RESET	OK	Reset all the settings on transmitter
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VI. Technical Specification

Frequency	2.4 GHz	
Distance	100m+	
Channels	32channels	
Groups	5 groups– A, B, C,D,E	
Power Supply	2X AA type alkaline batteries or NI-MH batteries (TX and RX) , 5V DC on receiver (external power port)	
Max sync speed	1/8000 sec*	
Transmitter Current	Standby Current≤30mA; Idle Current≤25mA; Max. Operating Current≤60mA	
Receiver Current	Max. Operating Current≤60mA	
AF Assist Light	Peak wavelength	650nm
	Optical power	<5mW
	Spot diameter at 1m	Injecting distance 1m: L-335mm W-326mm (angle of the sector at approx.20°)
Dimensions	(L109.3) x (W 71.7) x (H 56.0) mm(TX), (L 81.8) x (W 69.3) x (H 47.6) mm (RX)	
Weight	128.4g (TX) 91.6g (RX) -Excluding the batteries	

Note: Product specifications and external design are subject to change without further notice.

*For compatible camera and flashes

VII. Warnings

1. This product is a precise electronic instrument. Do not expose to damp environments or dust.

2. Please shut down the power of all devices when installing the wireless trigger.
3. Do not drop or crush.
4. Do not use the wireless trigger at flammable, explosive or high temperature environment.
5. Do not use harsh chemicals or solvents to clean the body. Use a soft cloth or lens paper.
6. Remove batteries from the wireless trigger if not being used for an extended period.
7. Interference: The flash trigger transmits radio signals at 2.4GHz. 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 transmission performance. If your wireless trigger can't be triggered, move its location slightly.