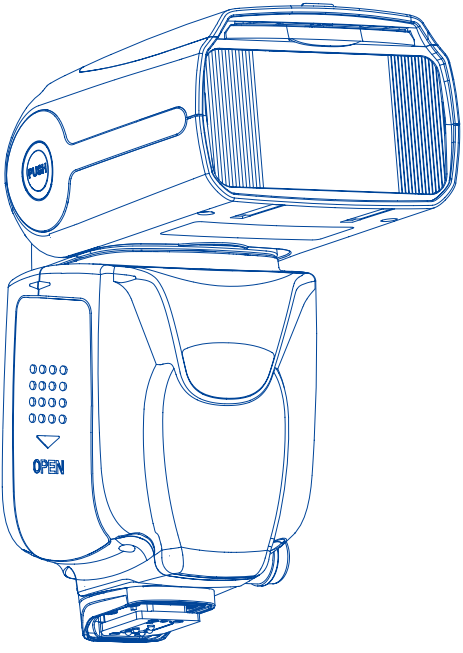
Phottix®

# Phottix Juno TTL Transceiver Flash




En INSTRUCTION MANUAL

Cn Trad 說明書

# INSTRUCTION MANUAL

Note: To start immediately using this flash please refer to the Quick-Start guide. For advanced features please read this manual and be familiar with your camera manual and operations.

The Phottix Juno TTL Transceiver Flash for Canon is designed to work with Canon DSLR cameras and features ETTL I/II, Manual, Multi Modes as well as Wireless (Radio and Optical) triggering.

## Warnings

1. Use your flash safely. Do not fire the flash into the eyes of people or animals at short distances – damage and/or blindness can occur.

2. Be careful using the flash in or around cars, buses, motorcycles or other moving vehicles as accidents can result.

3. Never use the flash near combustible gases (gasoline, solvents, etc.).

4. Do not expose the flash or batteries to dripping/splashing water, or high humidity.

5. Do not leave the flash or batteries in a hot location (direct sunlight, in a closed car, etc.).

6. Remove batteries from the flash when not being used for an extended period of time.

7. Change the batteries when required. Use undamaged batteries in good condition. Do not mix battery types or new and used batteries.

8. Do not put opaque objects in front of the flash lens when firing the flash. The energy emitted by the flash may cause objects to burn, or cause damage to the flash tube or fresnel lens.

9. Use caution in touching the flash head after use. It may be hot and can cause burns.

10. The flash contains high voltage electronic parts. Do not disassemble or attempt to repair the flash. Never touch the flash's internal components.

11. Do not touch the External Power Port contacts with any metal objects – this can cause electric shock and serious injury.

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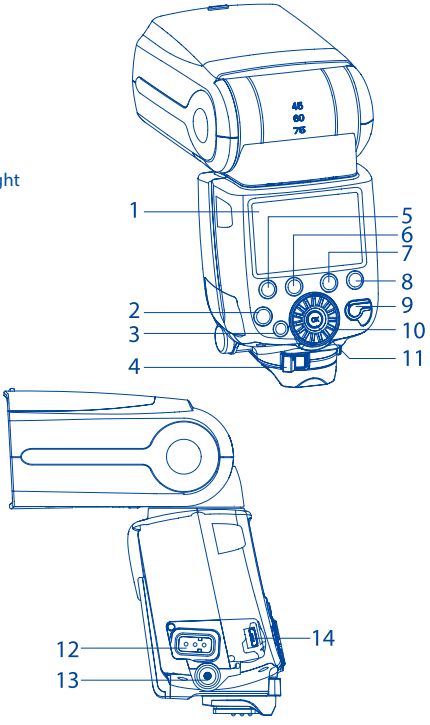
# 1. Parts

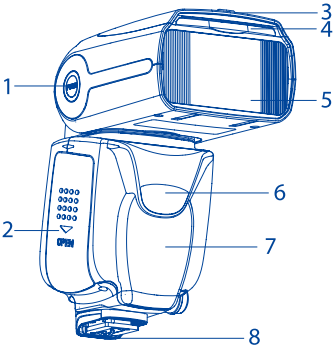
## Back/Left side

1. LCD Display
2. Mode Button
3. Test Button/ Ready Light
4. Locking Lever
5. Function Button 1
6. Function Button 2
7. Function Button 3
8. Function Button 4
9. Power Switch
10. Selection Dial
11. OK Button
12. External Power Port
13. PC Sync Port
14. Micro USB Port




## Front/Right side

1. Flash Head Locking Button
2. Battery Compartment
3. Bounce Card
4. Wide Angle Diffuser
5. Flash Head
6. Optical Signal Receiver
7. AF Assist Light
8. Hot Shoe



# 2. Flash Set-up

## This manual assumes：

1. Both the flash and camera are switched on.

2. The flash and camera are set to the same settings as this manual.

3. Camera menu and flash custom Functions menu are set to default values.

4. The flash is being used with a compatible camera.

## Installing Batteries

1. Press the battery cover in while pushing it towards the bottom of the flash. The battery cover will open and raise.

2. Insert AA batteries as shown by the diagram inside the battery compartment

3. Lower the battery cover and push back towards the top of the flash, locking it in place.

***Please note:***

- Please use four standard high-quality batteries of the same brand. Make sure all batteries are at similar power levels.

- Batteries can get hot when the flash is being used. Use caution when changing batteries.

- If you do not use the flash for an extended period of time, store with batteries removed.

- The Juno TTL Flash circuitry is designed to be used with either Alkaline, Ni-CD or NiMH rechargeable batteries. Do not use Lithium AA batteries.

## Battery Level Indicator

The Battery Level Indicator on the LCD (see below) will display an approximate indication of how much power remains in the batteries in the flash. Use this as a rough guide as to when a battery change is needed. If flash recycling time has become very long (30 seconds) change the batteries.

## Status LED

Flash-ready indicator. In Quick Flash Mode, the LED will turn green when the flash has the minimum recycle charge. It will turn red when fully charged.

## External Battery Port

The External Battery Port is compatible with the Canon CP-E4 compact battery packs, or compatible equivalents.

***Please note:***

- Batteries must be used in the flash even when an external battery pack is used.

- Do not use non Canon-compatible battery packs.

## Overheating Protection

The Phottix Juno TTL contains an overheating protection circuit that will slow flash recycle time to avoid overheating-related damage. Approximately 30 full-power flashes in a short amount of time will trigger this protection. Stop using the flash and wait 10 minutes for it to cool down.

## Sync and USB Ports

1. The PC Sync Port can be used with a PC Sync Cable to trigger the flash – from a flash trigger or camera. This port is input only – flash signals are not output from this port.

2. The Micro USB port is used for firmware upgrades. Firmware announcements and instructions will be made available on Phottix websites.

## Attaching the Flash to the camera

1. Turn off both the camera and flash

2. Align the flash hot shoe with the camera hot shoe.

3. Slide the flash into the camera hot shoe until fully inserted.

4. Lock the flash in position by pushing the locking lever to the right until the lock engages with a click.

5. To Unlock, press the locking release Button on the locking lever and slide to the left.

## Turning the Flash On/ Off

1. To power on the flash move the power switch to the on position.

2. To power off the flash move the power switch to the off position.

3. To Lock the flash：Move the power switch to the“LOCK”positios. This “locks” the Buttons and Dial of the flash, so setting cannot be accidentally changed.

## Raising and Rotating the Flash Head

1. The flash head will elevate from -7 to 90 degrees with stops at -7, 0, 45, 60, 75 and 90 degrees.

2. To Adjust: Press the Flash Head Locking Button and gently raise or lower the flash head into the desired position.

3. The flash head will rotate 180 degrees in either direction with stops at 30, 60, 90, 120, 150 and 180 degrees.

4. To Adjust: Press the Flash Head Locking Button and gently rotate the flash head into the desired position.

5. When the flash head is raised or rotated from the 0 degree standard forward position the flash zoom will set itself to 50mm. "- -" will be displayed on the LCD. Flash zoom when the head is raised or rotated can be changed in MZoom Mode (see below).

6. At -7 degrees the flash zoom will act the same as 0 degree – it will not change any settings.

## Using the Bounce Card or Wide Angle Diffuser

The Phottix Juno TTL Flash comes equipped with a White Bounce Card and Wide Angle Diffuser Panel in the flash head.

1. The Wide Angle Diffuser Panel will cause the flash to spread light to a 14mm equivalent.

2. The White Bounce Card can be used when the flash head is in a raised position to bounce light forward to assist with catch lights in a subject's eyes.

***To use:***

1. Gently pull the Diffuser Panel and Bounce Card from the Flash Head using the ridge on the bottom of the Diffuser Panel.

2. If using the Diffuser Panel it will drop into position over the Flash Head. Gently push the Bounce Card back into the Flash Head if not needed.

3. If using the Bounce Card only gently push the Diffuser Panel back into the Flash Head.

## Using the Flash Head Diffuser

The Phottix Juno TTL Flash comes with an attachable diffuser that can be added to the front of the flash head when needed. It is good for softening light, reducing hot spots and shadows and better coverage for macro photography.

### Setting flash zoom

There are two ways to control the zoom of the flash while it is on camera：automatic (Azoom) and manual (Mzoom)。 While in automatic zoom, the zoom on the flash will follow the zoom of the lens to provide the best coverage. When in manual zoom, the zoom setting on the flash is set by the user.

## Setting the flash zoom

1. Press the Function Button underneath Zm/FEB or Zoom (depending on the flash Mode)to enter the flash zoom adjustment Mode.

2. Use the Selection Dial to set Automatic Zoom Mode (Azoom) or set the manual zoom value (Mzoom).

3. When finished, press the OK Button to exit.

***Please note:***

1. When in Azoom and the flash head is raised or rotated from the 0 degree standard forward position - the flash zoom will set itself to 50mm. "- -" will be displayed on the LCD. The flash zoom will not change if the head is lowered to -7 degrees.

2. Azoom will work ONLY when the flash head is set to either 0 or -7 degrees.

3. When using Mzoom and the flash head is raised or rotated from the 0 degree standard forward position - the flash zoom will not be changed from the previous setting.

4. Flash Zoom can be adjusted when the head is raised or rotated by switching to Mzoom Mode and making desired adjustments.

## Test Button

Pressing the test Button will trigger the flash. This can be used for metering (in manual Mode only). In Wireless Master Mode pressing the test Button will fire slave flashes on the same channel, group and matching ID being controlled by the Master flash.

## Modeling Flash

1. Pressing the camera depth-of-field preview Button (if available) will fire the flash continuously for 1 second. This Modeling Flash is useful in seeing lighting effects and balance on the subject. (Please see your camera manual for more information on the DOF Button and Button assignment.)

2. Modeling Flash is available in all Modes, TTL, Multi and Manual.

***Please note:***

1. Overheating and damage can result from excessive use of the Modeling Flash. Do not use more than 20 times in succession.

2. When overheating the flash will automatically increase charging time until the flash temperature has decreased.

## Autofocus (AF) Assist Light

1. In low light/contrast situations the Phottix Juno TTL built-in Auto Focus Assist Light will illuminate to assist with AF. The AF Assist Light on the front of the flash will project a focusing target on the subject.

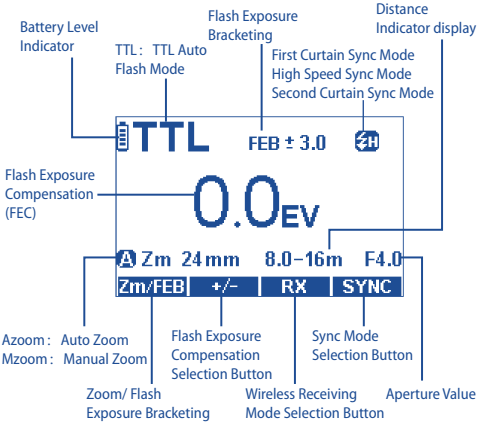
2. AF Assist Light Functions can be set to on or off (see C.Fn-03 below).

***Note:***

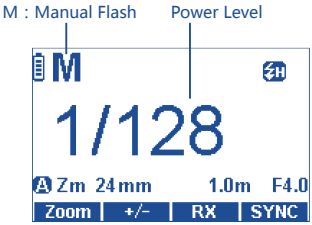
AF assist light will not work when flash is in Receiver or Slave Mode.

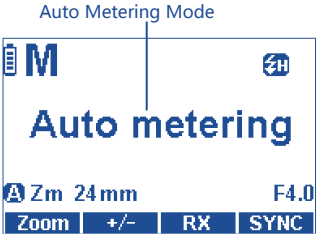
# 3. The LCD Display

## TTL Auto Flash Mode：

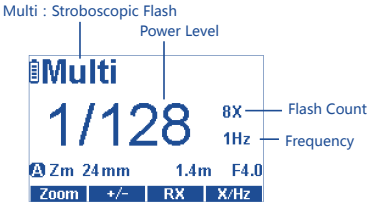



## Manual Flash Mode

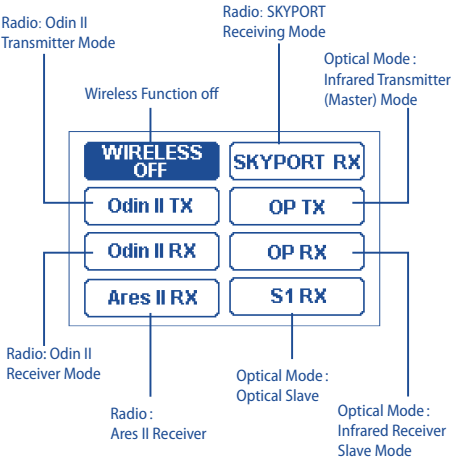


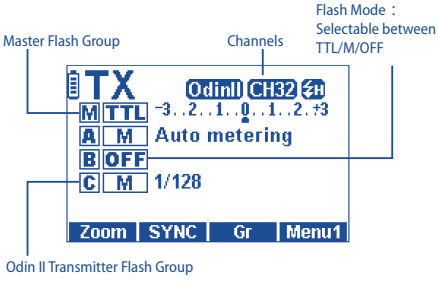
## Stroboscopic Flash Mode



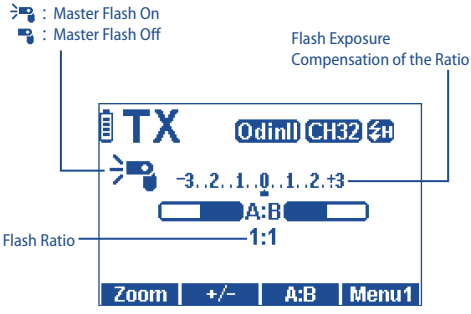

## Wireless Flash Selection Menu



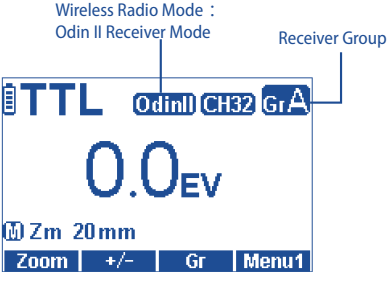
## Wireless Mode：Odin II Transmitter Mixed TTL/M Mode



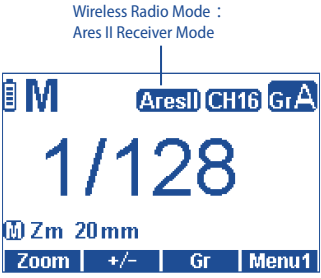

## Wireless Radio Mode：Odin II Transmitter Ratio Mode



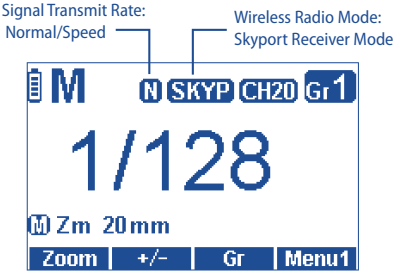

## Wireless radio Mode：Odin II Receiver Mode



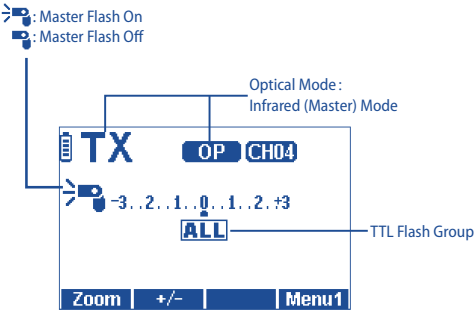
## Wireless Radio Mode：Ares II Receiver Mode

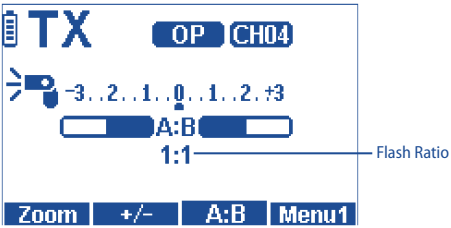


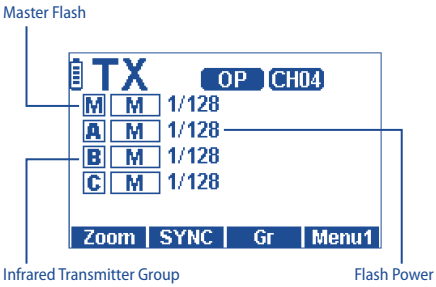

## Wireless radio Mode：Skyport RX Receiver Mode



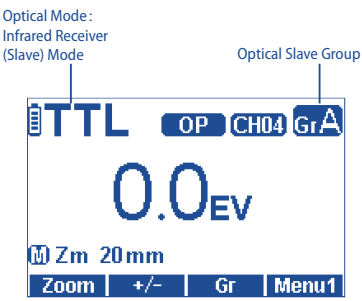

## Optical Mode: Infrared Transmitter (Master) Mode



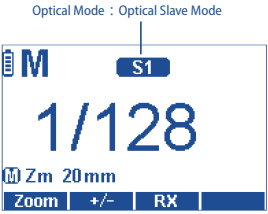



## Optical Mode：Infrared Receiver (Slave) Mode



## Optical Mode：Optical Slave Mode




# 4. Functions and Operations

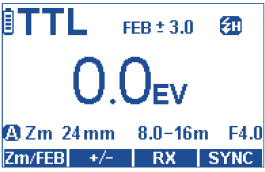
## Standard Flash Mode (Wireless OFF)

There are 3 flash Mode available：Auto（TTL）、Manual（M）and Stroboscopic（Multi).

**Changing Flash Mode：**

Pressing the"MODE"Button will cycle between Auto（TTL）、Manual（M）and Stroboscopic（Multi）。The selected Flash Mode will display on the upper left corner of the LCD.

## TTL: Auto Flash




In TTL Mode the flash and camera will work together to calculate the correct exposure. When the Shutter Button is fully pressed the flash will fire a pre-flash that the camera will use to calculate exposure and flash power the instant before the photo is taken.

## Flash Exposure Compensation (FEC)

The Juno TTL Flash allows Flash Exposure Compensation (FEC) adjustment from -3 to +3 in 1/3rd stops. This is useful in situations where fine-tuning of the TTL system is needed based on the environment.

***To set FEC:***

1. Press "MODE" Button until the flash display TTL on the top left corner of the LCD.

2. Press +/– Button to enter FEC Adjustment Mode

3. Use the"Selection Dial"to adjust the FEC

4. Press +/– to exit.

## Flash Exposure Bracketing – FEB

Flash Exposure Bracketing (FEB) can be used to automatically change flash power over a series of photos. The camera will record three images with different exposures – one exposed as per camera calculations, one over-exposed and another under-exposed. Over and under exposure levels can be set by the user. FEB is useful in run-and-gun situations as well as when shooting scenes with different lighting conditions to help ensure a properly exposed photo. It can also be used for HDR photography. Some cameras have flash exposure storage Function, see your camera user manual for more details.

1. Hold down the Zm/FEB Button for 2 seconds. The FEC icon will displayed in the top right hand corner of the LCD .

2. Use the"Selection Dial"to adjust the exposure bracket amount, once selected, flash will fire in sequence of the selected FEC.

***Cancel FEB :***

1. Hold Zm/FEB Button for 2s, use the"Selection Dial"to set FEB to ±0 .

***Please note:***

- FEB can be used in conjunction with FEC and Flash Exposure Lock (FEL)

- For best result, set the camera drive Mode to single frame, and before the second and third picture is taken, make sure the flash is fully recycled.

## Flash Exposure Lock–FEL

The Juno TTL is compatible with Flash Exposure Lock (FEL) Functionality. FEL can be used to lock the flash exposure before a photo is taken. See your camera user manual for further details on using FEL.

## High Speed Sync – HSS

In HSS Mode, the camera/flash maximum sync speed can reach the camera's maximum shutter speed. This is useful when using Aperture Priority Mode or to limit ambient light. HSS may vary with different camera models - see your camera user manual for details.

***To use HSS Mode:***

1. Press SYNC Button to cycle through the Sync Mode of the flash.

2. When the icon is displayed, the flash is set at HSS Mode

3. You can now set the camera to use a shutter speed faster than the sync speed for the camera

***Please note:***

Check that the HSS icon( ) is displayed in the viewfinder

- HSS drastically reduces flash power, battery power and range.

- HSS is not available in Stroboscopic Mode

## Second Curtain Sync – SCS

The Phottix Juno TTL Second Curtain Sync Function makes the flash fire at the end of an exposure, not the beginning. This can be useful with slow shutter speeds for capturing special effect.

***To use:***

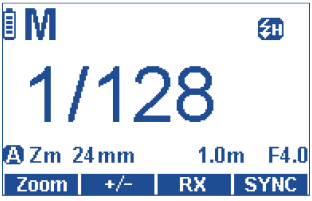
1. Press SYNC Button to cycle through the Sync Mode of the flash.

2. When the icon is displayed, the flash is set at SCS Mode

***Note:***

SCS Function is not available in Stroboscopic Mode

## M: Manual Mode




In Manual Mode the flash will fire at the power level set on the flash. The Phottix Juno TTL Flash can be adjusted from 1/1 (full power) to 1/128 – 8 stops of adjustments in 1/3rd stop increments. Aperture, shutter speed and ISO on the camera need to be manual adjusted. For best results use camera M-Manual Mode.

***To use:***

1. Press "MODE" Button until the flash displays M on the top left corner of the LCD.

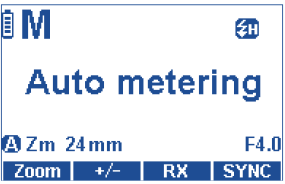
2. Press +/- Button to enter Manual Power Adjustment Mode.

3. Use the "Selection Dial" to adjust the Power Level.

4. Press +/- to exit.

Note: Half press the camera Shutter Button will display t he effective manual flash power range on the Flash LCD.

## Auto-Metering Mode




Auto Metering Mode can be used similarly to a light Meter to measure and set the flash power needed for proper exposure.

***To use:***

1. While in Manual (M) Mode – press and hold the OK Button for 2 seconds.

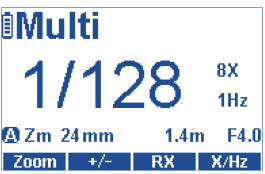
2. Auto Metering will be display on the flash LCD

3. When a photo is taken the flash will automatically calculate the manual power level and display it on the back of the flash.

4. Subsequent photos will be taken at this power level.

5. To re-meter press and hold the OK Button for 2 seconds to re-enter Auto Metering Mode.

## Multi: Stroboscopic Mode




With Multi Stroboscopic Mode a series of rapid flashes will be fired. The flash count, frequency and power of these flashes can be programmed on the Phottix Juno TTL. Multi Mode is useful for capturing multiple images of a moving subject in the same photo and other special effects. The frequency of the effect (in Hz. - number of flashes per second), the total number of flashes and output levels can be set.

***To Use:***

1. Press "MODE" Button until the flash displays Multi on the top left corner of the LCD.

2. Press +/– Button to enter Power Adjustment Mode, use the Selection Dial to adjust the flash power

4. Press X/Hz Button to cycle through Number of Flashes (X) and frequency (Hz), and use the Selection Dial to adjust these settings.

***Please note:***

1. Overheating and damage can result from excessive use of the Multi Stroboscopic Mode. Do not use more than 20 times in succession.

2. When overheated the flash will automatically increase recycling time until the flash temperature has decreased.

## Stroboscopic Mode and Shutter Speeds

To determine the proper camera shutter speed to be used with various Stroboscopic Mode variables, use the following formula: Number of flashes / Frequency = Shutter Speed

Example: 5x (number of flashes) / 10 Hz (Frequency) = .5 second shutter speed. This is a rough guideline: You may need to increase or decrease the shutter speed to get the desired result.

## Multi Stroboscopic Mode Output Chart

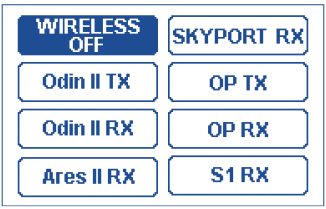
| HZ / Flash Output | 1 | 2 | 3 | 4 | 5 | 6-7 | 8-9 | 10 | 11 | 12-14 | 15-19 | 20-50 | 60-199 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/4 | 7 | 6 | 5 | 4 | 4 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 |
| 1/8 | 14 | 14 | 12 | 10 | 8 | 6 | 5 | 4 | 4 | 4 | 4 | 4 | 4 |
| 1/16 | 30 | 30 | 30 | 20 | 20 | 20 | 10 | 8 | 8 | 8 | 8 | 8 | 8 |
| 1/32 | 60 | 60 | 60 | 50 | 50 | 40 | 30 | 20 | 20 | 20 | 18 | 16 | 12 |
| 1/64 | 90 | 90 | 90 | 80 | 80 | 70 | 60 | 50 | 40 | 40 | 35 | 30 | 20 |
| 1/128 | 100 | 100 | 100 | 100 | 100 | 90 | 80 | 70 | 70 | 60 | 50 | 40 | 40 |

If the number of flashes is displayed as "N---", the maximum number of flashes will be as shown by the table below regardless of the firing frequency.

| **Flash output** | 1/4 | 1/8 | 1/16 | 1/32 | 1/64 | 1/128 |
|---|---|---|---|---|---|---|
| **Flash count** | 2 | 4 | 8 | 12 | 20 | 40 |

# 5. Wireless Triggering Modes

The Phottix Juno TTL Flash is equipped with several wireless transmitter and receiver Modes. It offers built-in compatibility with the Phottix Odin II TTL Trigger system, Phottix Odin Lite, Phottix Ares II and Elinchrom Skyport. Compatibility for Canon's native optical master/slave triggering system is also included. For information on these systems please consult the respective product manuals.




## Selecting Wireless Triggering Mode

To set the wireless triggering Modes on the Juno TTL

1. Press the RX Function Button to enter the Wireless Triggering Mode Selection screen

2. Use the Selection Dial to select the desired Wireless Triggering Mode and press the OK Button to select.

3. Set the parameters for the selected Wireless Triggering Mode (e,g: Channels and groups).

## Wireless Triggering Mode available on Juno TTL:

### Odin II Tx(Transmitter)

Allows full adjustments to local and remote TTL and Manual flash power and zoom on other Juno TTL flashes (in Odin II Rx Mode) or compatible flashes equipped with Phottix Odin II receivers. Flashes or studio lights with Strato II or Ares II receivers can be triggered in manual Mode by the Juno TTL flash in Odin II Tx Mode.

Note: Odin Z OS require on Odin II receiver

## Odin II Rx(Receiver)

The Juno TTL flash in Odin II Rx Wireless Mode can be triggered by another Juno TTL flash in Odin II Tx Mode or by a Phottix Odin II Transmitter. If using an Odin II Tranmitter (for any brand) the Juno TTL in Odin II Rx Wireless Mode will automatically switch to Canon, Nikon, Sony and Pentax compatibility.

Note: Odin II Canon, Nikon and Sony requires Odin Z OS

## Ares II  Rx(Receiver)

The Juno TTL in Ares II Rx Wireless Mode can be triggered by Phottix Ares II Transmitters, Phottix Odin II Transmitters and Phottix Juno TTL flash in Odin II Tx Mode.

## Skyport RX(Receiver)

In Skyport Rx Mode, the Juno TTL flash can be triggered by Elinchrom EL Skyport Transmitter Plus, Elinchrom EL Skyport Transmitter Plus HS, Elinchrom EL Skyport transmitter Pro.

## OP Tx(Master)— Using Canon Infrared triggering system

Using pulses of light, the Juno TTL flash on camera can adjust and fire remote flashes in OP Rx Mode .

## OP Rx (Slave)—Using Canon Infrared triggering system

Remote Juno TTL (Canon) in OP Rx Mode are controlled and fired by on-camera flashes in OP Tx Master Mode.

Note: Both OP Tx and OP Rx flash needs to be Juno TTL for Canon.

## S1 Rx (Slave)— Optical Slave

In S1 Rx Mode other nearby flashes will trigger the Juno TTL in manual Mode only when they are fired.

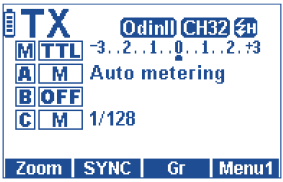
Please note: The Juno TTL cannot be triggered by Phottix Strato, Odin I TCU or Ares .

In the wireless triggering Mode Selection screen, if the OK Button is not pressed, after 12 seconds the flash will enter the current selected Wireless Mode.

## OdinII Tx (Transmitter Mode)

Using the Juno TTL Flash in Odin II Tx Mode allows for a flash to be used on-camera in TTL or Manual Mode as well as control three groups (A, B, C) – adjusting TTL and manual power levels as well as flash head zoom on Juno TTL flashes set in Odin II Rx Mode or other compatible flashes mounted on Phottix Odin II receivers. In flash groups under manual Mode can also set 'auto metering' feature to assist it setting the desired power.

## OdinII Tx Mode interface




### Using OdinII Tx Mode

After selecting OdinII Tx Mode (above)

1. Press Function Button 4 until the LCD displays **Menu1** .

2. press Function Button 3 (underneath **Gr** ) to cycle through M (Master flash), A,B,C.

3. Pressing the Mode Button while a Group is selected will change the Mode from TTL, M (Manual) and Off.

4. Use the Selection Dial when a group is selected to adjust the EV Level ±3EV in 1/3 stop in TTL Mode, or the power level (1/128 to 1/1 in 1/3 stops) in Manual Mode.

4. Press the OK Button to confirm and exit the Odin II Tx Mode editing menu.

## Setting in Odin TX wireless mode

The Auto Metering Mode can be used similarly to a light meter to measure and set the flash power needed for proper exposure

***To use auto metering:***

1. Set the respective groups to Manual Mode (M), the groups can be set to any power level

2. Press and hold the option/confirm button until the LCD displays Auto Metering.

3. Take a test shot

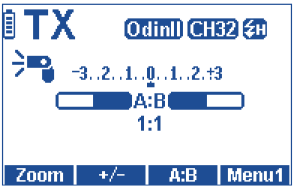
4. The suggested power level will be displayed on the Odin II in the respective groups.

***Please Note:***

· To Cancel Auto Metering: press the flash group button and the option/confirm button to exit auto metering mode for that group.

· Press the test button to exit auto metering mode for all groups.

## Odin II Tx Ratio Mode




## Ratio Mode

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. Adjustments to the local flash (M) Mode and power can be made.

***To Use Ratio Mode:***

1. In Odin II Tx Mode, press the "MODE" Button to access the Ratio Mode.

2. Press Function Button 4 until the LCD displays **Menu1** .

3. Press Function Button 2 (underneath **+/-** ) to select local EV settings and use the Selection Dial to adjust the EV. Press OK to confirm and exit.

4. Press Selection Button 3 (underneath **A:B** ) and use the Selection Dial to adjust the ratio between 8:1 to 1:8. Press OK to confirm the setting.

5. Pressing the"MODE"Button in Ratio Mode will exit Ratio Mode and return to Standard Mode.

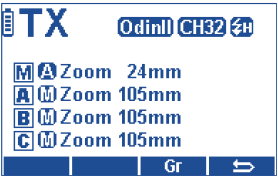
***Setting the master flash:***

1. Press Function Button 4 until the LCD displays **Menu 3** . Pressing Function Button 1 (underneath / ) can switch on ( ) or switch off ( ) the master flash.

***Please note***

The flash on camera (M) is not part of the ratio calculation. Power for the local flash is controlled independently.

## Flash Zoom adjustment in Odin II TX Mode



1. Press Function Button 4 until the LCD displays Menu1 . Press Function Button 1 (underneath Zoom ) to access the zoom adjustment screen.

2. Press Function Button 3 (underneath Gr ) to cycle through M(Master), A, B, C groups

3. Use the Selection Dial to change the zoom of the selected group, the master flash can be set to Azoom (automatic zoom that changes dynamically as a zoom lens is changed) or Mzoom 20mm, 24 mm, 28 mm, 35 mm, 50 mm,7 0 mm, 80 mm, 105mm, 135mm and 200mm(Mzoom only in group A,B,C)

4. Press Selection Button 4(underneath ⇦ ) to confirm and exit the zoom adjustment screen.

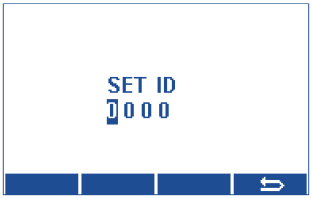
## Setting channels

1. In Standard or Ratio Mode interface, press Function Button 4 to access Menu2 , and use Function Button 1 (underneath CH ) to enter the Channels Selection area

2. Use the Selection Dial to cycle through CH 1-32 (Channels 1-32)

3. Press the OK Button to confirm and exit the channel Selection

## Setting Digital ID




1. Press Function Button 4 to access Menu2 , press Selection Button 2(underneath ID ) to enter the Digital ID Selection screen.

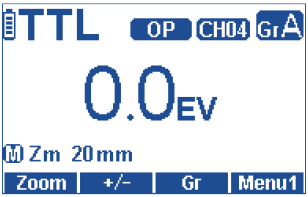
2. Press the OK Button to choose the digit in the ID, use the select Dial to change the digit.

3. Press ⇦ Button to confirm and exit the ID Selection screen.

**Odin II Rx(receiver) Mode**

When the Odin II Rx Wireless Mode is selected the Phottix Juno TTL Flash can be controlled and triggered from another Juno TTL Flash in Odin Tx Mode or an Odin II Transmitter.

## Odin II Rx Mode screen




## Changing channels, groups and ID

1. Press Function Button 4 to access Menu2 , use Function Button 1 (underneath CH ) to enter the Channels adjustment area. Use the Selection Dial to change the channels between CH1-CH32. Press the OK Button to confirm and exit channel adjustment area.

2. Press Function Button 4 to access Menu1 use Function Button 3 (underneath Gr ) to enter groups adjustment area. Use the Selection Dial to change the groups between A,B,C,D,E.

3. Press Function Button 4 to access Menu2 , use Function Button 2 (underneath ID ) to enter ID adjustment screen. Press the ok Button to choose the digit in the ID and use the Selection Dial to change the digit, press ⇦ Button to exit the ID interface

***Please note:***

In TTL Mode, the effect of EV adjustment is cumulative. If EV adjustment is set on the Odin II Rx screen and on an Odin II Transmitter or Juno TTL in Odin II Tx Mode, and/or in TTL Pref in the Custom Functions menu, all of these settings will be used to calculate final EV.

## Ares II Rx(receiver) Mode screen

When the Ares II Rx Mode is selected, the Juno TTL will be triggered by Phottix Ares II Transmitters, Phottix Odin II Transmitters or a Phottix Juno TTL Flash in Odin II Tx Mode – when set to the same channel, group and Digital ID.

## Changing channels, groups, ID, power and flash Mode

1. Press Function Button 4 to access Menu2 , use Function Button 1 (underneath CH ) to enter the Channels adjustment area. Use the Selection Dial to change the channels between CH1-CH16. Press the OK Button to confirm and exit channel adjustment area.

2. Press Function Button 4 to access Menu2 use Function Button 2 (underneath ID ) to enter ID adjustment screen. Press the OK Button to choose the digit in the ID and use the select Selection Dial to change the digit, press ⇦ Button to exit the Digital ID screen.

3. Press Function Button 4 to access Menu1 use Function Button 3 (underneath Gr ) to enter groups adjustment area. Use the Selection Dial to change the Groups between A,B,C,D. pPress the OK Button to confirm and exit group adjustment area.

4. Press Function Button 4 to access Menu1 use Function Button 2 (underneath +/- ) to enter power adjustment area. Use the Selection Dial to change the power of the flash between 1/1 to 1/128 with 1/3 stops increments. Press the Function Button correspond to +/- to confirm and exit the Selection screen

5. Use the Mode Button to change flash Mode between Manual (M) and Stroboscopic (Multi.)

***Please note:***

- In Ares II Rx (Receiver) Mode there are no wireless TTL Functions such as HSS or SCS, or wireless power/zoom control.

- Power and zoom levels must be set manually on the Juno TTL flash while in Ares II Rx Mode.

- Digital ID is only available in CH5-16, CH1-4 cannot set.

## ELINCHROM SKYPORT Rx(Receiver) Mode

When the Skyport Rx Mode is selected the Juno TTL Flash will be triggered by Elinchrom EL Skyport Transmitter Plus, Elinchrom EL Skyport Transmitter speed, Elinchrom EL Skyport Transmitter Pro, when set to the same channel, group and Digital ID.

### SKYPORT RX Mode screen

## Changing channels, groups, sync Mode and power

1. Press Function Button 4 to access Menu2 , use Function Button 1 (underneath CH ) to enter channels adjustment area. Use the Selection Dial to change the channels between CH1-CH20. Press the OK Button to confirm and exit channel adjustment status

2. Press Function Button 4 to access Menu1 use Function Button 3 (underneath Gr ) to enter groups adjustment area. Use the Selection Dial to change the groups between 1,2,3,4. Press the OK Button to confirm and exit group adjustment status

3. Press Function Button 4 to access Menu2 , use Function Button 2 (underneath NORMAL or SPEED )to cycle between NORMAL or SPEED Modes.

4. Press Function Button 4 to access Menu1 use the Function Button 2 (underneath +/- ) to enter power adjustment area. Use Selection Dial to change the power of the flash between 1/1 to 1/128 with 1/3 stops increments. Press the Function Button correspond to +/- to confirm and exit the Selection screen

***Please note:***

- In Skyport Rx (Receiver) Mode there are no wireless TTL Functions such as HSS or SCS, or wireless power/zoom control.

- Power and zoom levels must be set manually on the Juno TTL flash while in Skyport Rx Mode.

## OP Tx(Master) and OP Rx(slave) wireless Mode

OP Tx (Master) and OP Rx (Slave) Modes use Canon's wireless control and triggering system. A Juno TTL flash set to OP Tx (Master) is needed on the camera to control remote (slave) flashes set to OP Rx (Slave). The same transmission channel needs to be set on both Master and Slave flashes. Groups need to be set for Slave flashes, Group Ratio Functions need to be set for Master flashes. A Juno TTL set to OP Tx (Master) or other compatible flash in Master Mode can be used on the camera to control and trigger Juno TTL flashes in OP Rx (Slave), or other compatible flashes in Slave Mode.

## Transmission channels

The Phottix Juno TTL Flash OP Tx/Rx Wireless system has four transmission channels: 1, 2, 3 and 4. If Master and Slave flashes are set to different channels the Slave flashes will not fire.

## OP Tx(Master) Mode:

1. Channel setting: Press Function Button 4 to access Menu2 . Press the Function Button correspond to CH to enter channels adjustment area. Use the Selection Dial to change the channels between Ch1-4.

2. Group setting: Press Function Button 4 to access Menu1 . Press the Function Button correspond to Gr to cycle through between Master (M) and groups A,B,C. Power can be adjusted by the Selection Dial while a group is selected (see note below)

3. Master with flash Mode ON/OFF: Press Function Button 4 to access Menu2 . Press the Selection Button correspond to / to cycle between master flash on ( )or off( ).

***Please Note:***

- Group setting is only available in Manual Mode

- Master flash on: The Master flash on the camera will fire when a photo is taken.

- Master flash off: The Master flash on the camera will not fire when a photo is taken. --The flash will emit a short burst of light to communicate with slave flashes but this light will not be part of the exposure.

## OP Rx (Slave) Mode:

1. Channel setting: Press Function Button 4 to access Menu2 . Press the Function Button correspond to CH to enter channels adjustment area. Use the Selection Dial to change the channels between Ch1-4.

2. Group setting: Press Function Button 4 to access Menu1 . Press the Function Button correspond to Gr to enter group selection area. Use the Selection Dial to select between group A,B,C. Press the OK Button to confirm.

***Please note:***

- Make sure the OP Tx (Master) and OP Rx (Slave) flashes are set to the same transmission channel (1-4).

- Do not place any obstacles between the master unit and slave unit(s). Obstacles can block signal transmissions.

- When using wireless bounce flash, please ensure the slave flash Wireless Signal Receiver Area faces toward the Master flash.

- When using only one on-camera flash set Wireless Mode to “Off”.

## Using OP Tx/Rx Wireless Triggering

With a flash in OP Tx (Master) Mode on the camera and remote flashes in OP Rx Slave Mode, pressing the shutter Button will fire the OP Tx (Master) flash (if set to fire the flash) and flashes set to OP Rx (Slave) Mode within the range of the OP Tx (Master) flash. The camera and flash will meter the scene and fire flashes in TTL Mode to properly expose the scene.

## TTL Modes

ALL All three groups fire at an average of the total calculated output.

A:B  Groups A and B can be set by Flash Ratio (see below)

***Setting and adjusting the exposure value compensation:***

1. Press Function Button 4 to access Menu1 press the Function Button correspond to +/- to enter the exposure value (EV) compensation adjustment area.

2. Use the Selection Dial to adjust the EV value.

***Please note:***

A:B  Groups A and B can be set by Flash Ratio (see below). Group C is not adjustable and does not fire.

***Setting and adjusting ratio Mode:***

1. In OP Tx(master) wireless Mode, press the Mode Button to cycle through all, A;B and Manual Mode.

2. When the flash is in A:B ratio Mode, press Function Button 4 to access Menu2 , press the Function Button correspond to A:B to enter ratio adjustment state, use the Selection Dial to adjust flash ratio between 8:1 to 1:8.

## Manual Mode

In manual Mode, M(Master flash), Group A,B,C flash power can be adjusted independently.

***Setting and adjusting manual Mode:***

1. In OP Tx(master) wireless Mode, press the Mode Button to cycle through all, A;B and manual Mode

2. Press Function Button 4 to access Menu1 . Press the Function Button corresponding to Gr to cycle through M (master), group A, B and C.

3. For each group, use the Selection Dial to adjust the flash power (adjustable between 1/1 to 1/128 in 1/3 stop increment)

4. Press the OK Button to confirm and exit.

## S1 Rx optical slave Mode

S1 Rx Optical Slave Mode allows the Juno TTL to be triggered in manual mode by other flashes.

***Adjusting power and zoom***

1. Adjusting Power: Press Function Button 2 (underneath +/- ) to enter

power adjustment area. Use the Selection Dial to change the power. Press the OK Button or Function Button 2 (underneath +/- ) to confirm and exit.

2. Adjusting Zoom: Press Function Button 1(underneath Zoom ) to enter zoom adjustment area. Use the Selection Dial to change the zoom. Press the OK Button or Function Button 1(underneath Zoom ) to confirm and exit

# 6. Other Functions

## Auto Save Function

The Juno TTL flash will remember flash settings. Such as mode, power levels. These will be retained in the flash if it is turned off and then back on.

## Auto idle Function

To save battery power the Phottix Juno TTL Flash is equipped with Idle and Auto Off Modes.

1. In Non-Wireless Slave Modes: The flash will go into Auto Idle Mode after 10 min. if no Buttons have been pressed or it has not been fired. The flash LCD will go blank. Half-pressing the camera shutter Button or pressing the test Button on the flash will wake up the Phottix Juno TTL.

2. In Wireless Slave Mode, the flash will go to Slave Idle Mode after 10 minutes if no Buttons have been pressed or it has not been fired, “IDLE” will be displayed on the flash LCD. Full-pressing the camera shutter Button or pressing the Master flash test Button will wake up flashes in idle Mode. Slave Idle Timer can be set (see C.Fn-01 below)

# 7. Custom Functions

The Juno TTL Flash comes with a number of programmable custom Functions. To edit these Functions (below):

1. Press and hold Function Buttons 2 and 3 together for 2 second to enter custom menu Selection screen.

2. Use the Selection Dial to select the custom Function you would like to adjust (C.Fn01-C.Fn08).

3. Press the OK Button to enter Selection status, then use the Selection Dial to change the setting. Press OK Button to confirm and return to Menu Selection screen.

4. Once Custom Functions have been edited, press Selection Button correspond to ⇦ to leave the Custom Functions Menu.

| Custom Function No. | Function | Setting options | Setting description |
|---|---|---|---|
| C.Fn 01 | Sleep | 0FF | Off：Flash will not got to sleep Mode |
| | | 10min | Flash will enter sleep Mode in 10 min (default) |
| | | 30min | Flash will enter sleep Mode in 30 min |
| | | 60min | Flash will enter sleep Mode in 60 min |
| C.Fn 02 | Beep | OFF | Turn off beep sound |
| | | ON | Turn on beep sound(default) |
| C.Fn 03 | AF Light | OFF | Turn off AF assist light |
| | | ON | Turn on AF assist light(default) |
| C.Fn 04 | Distance | Meter | Meter (m) (default) |
| | | Feet | Feet (Ft) |
| C.Fn 05 | Backlight | 12sec | Backlight turn off automatically after the flash is left idle for 12 seconds (default) |
| | | ON | Backlight always on |
| | | OFF | Backlight always off |
| C.Fn 06 | RX ID code | OFF | Off： ID code is not used in Odin II and Ares II radio receiver Mode (default) |
| | | ON | On：ID code is used in Odin II and Ares II radio receiver Mode |
| C.Fn07 | Information | — | Firmware info |
| C.Fn08 | Reset | — | Reset to factory defaults |

## Auto backlight

Default setting, if no Button is pressed, the backlight of the LCD will automatically turn off after 12 seconds. To turn the backlight on, press any Button of the flash.

## Resetting to factory default

1. Press and hold Function Buttons 2 and 3 together for 2 second to enter custom menu Selection screen.

2. Use the Selection Dial to select C.Fn08.

3. Press OK Button to reset to factory default.

## Flash information display

If technical support or firmware updates are needed. You may need to provide the hardware and software info, icon and flash count.

1. Press and hold Function Buttons 2 and 3 together for 2 second to enter custom menu Selection screen.

2. Use the Selection Dial to select C.Fn08.

3. Press OK Button to display info.

***Changes to the Flash Capacitor:***

If the flash is not used regularly physical changes will take place within the flash's capacitor. Make sure to turn on the flash a minimum of 10 minutes every three months to prevent any physical changes.

# 8. Specifications

| | | |
|---|---|---|
| Flash Mode | TTL (Auto)、M (Manual) and Multi(Stroboscopic) | |
| Guide number | 60 (200mm zoom、ISO 100/m) | |
| Flash coverage | 20-200mm (14mm with wide angle diffusion panel) | |
| Zoom | Azoom (Auto zoom)：Flash coverage automatically adjusted according to the lens focal length | |
| | Mzoom (Manual zoom)：Zoom can be adjusted independently to the lens focal length | |
| Flash head angle | Rotation：360 degree (180 degree left and right)；Up, down：-7 to 90 degree | |
| Flash Exposure Bracketing（FEB） | ±3 stops in 1/3 stop increments (Manual flash exposure compensation and FEB can be combined) | |
| Sync Mode | First Curtain Sync, Second Curtain Sync, and High Speed Sync | |
| Stroboscopic flash: | Frequency:1-199Hz Number of flashes: 1-100 | |
| Recycling time | Normal flash Approx.0.1-4 sec./Red LED indicator lamp lights up (Using AA rechargeable batteries) | |
| Internal Power | Four size-AA alkaline batteries or size-AA Ni-MH batteries | |
| External Power | Compatible with Canon compact battery pack CP-E4 | |
| Power saving | Selectable between OFF、10min、30min、60min | |
| Wireless flash signal transmission method | Radio Frequency and Optical pulse | Channels：Optical Pulse CH (1-4)、Radio (CH1-32) |
| | | Wireless Mode：OdinII Tx, OdinII Rx,AresII Rx, OP Tx, OP Rx, S1 Rx,SKYPORT Rx |
| | | Transmission range (Approx)：Radio：100m；<br>Optical: Indoors: 12-16m/39.36- 52.48 ft., Outdoors: 7-9m/22.96-29.5 2ft |
| | | Reception angle: Radio: 360 ° all directions, Optical transmission:±40°(horizontal), ±30°(vertical) |
| | | Controllable Slave/receiver group：Optical (Gr A/B/C) , Radio (Gr A/B/C/D/E) |
| Dimension (L×W×H) | 193×79×60 mm | |
| Weight | Approx 430g (Flash Only, exclude batteries) | |

# 9. Apprendix: Juno TTL compatibility and supported feature with Other Phottix products

| A. When Juno TTL is set to Odin II TX | | B. When Juno TTL is set to Odin II RX | |
|---|---|---|---|
| | **Juno TTL TX** | | **Juno TTL RX** |
| Indra360/500<br>Odin Z OS | i. TTL<br>ii. HSS<br>iii. Auto Metering Function<br>iv. Remote manual power control<br>v. Cross Brand support<br>vi. Output display in real time | Odin II TX<br>OdinZ OS | i. TTL<br>ii. HSS<br>iii. Auto Metering Function<br>iv. Remote manual power control<br>v. Cross Brand support<br>vi. Output display in real time |
| Juno TTL<br>@ RX | i. TTL (Support different brand cameras)<br>ii. HSS<br>iii. Auto Metering Function<br>iv. Remote Power control<br>v. Support different brand<br>vi. Output display in real time | Juno TTL<br>@ TX | i. TTL (Support different brand cameras)<br>ii. HSS<br>iii. Auto Metering Function<br>iv. Remote Power control<br>v. Support different brand<br>vi. Output display in real time |
| Mitros+<br>@ RX<br>Odin Z OS | i. TTL (NOT support different brand)<br>ii. HSS<br>iii. Auto Metering Function<br>iv. Remote Power control<br>v. Not support different brand<br>vi. Output will NOT display<br>Mirtros+ require to set to TTL | Mitros+<br>@ TX<br>OdinZ OS | i. TTL(Support cross brand system)<br>ii. HSS<br>iii. NO Auto metering<br>iv. Power Metering<br>v. Support cross brand system<br>vi. Display Power level on flash |
| Odin II RX<br>Odin Z OS | i. TTL (NOT support different brand)<br>ii. HSS<br>iii. Auto Metering Function<br>iv. Remote Power control<br>v. Not support different brand<br>vi. Output will NOT display<br>Mirtros+ require to set to TTL | Odin Lite | i. NO TTL<br>ii. NO HSS<br>iii. NO Auto Metering<br>iv. Power control<br>v. Display Power level on flash |

# RED 2014/53/EU

## Declaration of Conformity

Hereby, Phottix (HK) Ltd. declares that this product is in compliance with essential requirements and other relevant provisions of Directive 2014/53/EU. This product can be used across EU member states. A copy of the Declaration of conformity can be found at www.phottix.com.

# FCC Compliance Information

**Company: Phottix (HK) Ltd.**
**Name: Phottix Juno TTL Transceiver Flash**
**Model Number: H0301**
**FCC ID: P9M-JUNOTTL**

## FCC Statement

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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.

## RF Exposure Information

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

## CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

## What's included:

1. Juno TTL unit X 1
2. Carrying bag.
3. Diffuser cap (white color)
4. Printed user manual.
5. Hot shoe stand.

www.phottix.com