Phottix

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The Phottix Juno Flash

Note: To immediately start 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 Flash is designed to work with most popular film and DSLR cameras system. It features manual power control and transceiver technology for off-camera use.

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.

Contents

1. Juno flash
2. Flash bag
3. Flash Stand
4. User guide
5. Flash diffuser

Please note:

These instruction assume:

. Both the flash and camera are switched on.

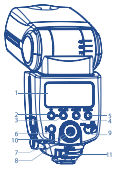
. The flash and camera are set to the same settings as this manual.

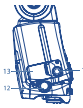
. The flash is being used with a compatible camera.

Parts

Back / Left Side

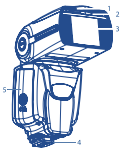
1. LCD Display
2. Wireless Mode Button
3. Channel / Group Button
4. Mode Button
5. Zoom Button
6. Test/Status Button
10. Power Light
7. Control Wheel
8. Set Button
9. Power Switch
11. Locking Lever
12. PC Sync Port
13. External Power Port (Canon compatible)
14. ¼" x 20 Mounting Lug





Front / Right Side

1. Bounce Card
2. Wide Angle Diffuser
3. Flash Head
4. Hot Shoe
5. Battery Compartment



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 powers 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.

Attaching the flash to a camera

Turn off both the camera and flash

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

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

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

4. 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.

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.

Raising and Rotating the Flash Head

1. The flash head will elevate from 7 to 90 degrees with stops at 0, 45, 60, 75 and 90 degrees. Gently raise or lower the flash head into the required position.

2. The flash head will rotate 180 degrees in either direction with stops at 30, 60, 75, 90, 120, 150 and 180 degrees. Gently rotate the flash head into the required position.

Using the Bounce Card or Wide Angle Diffuser

The Phottix Juno 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. When used, the diffuser panel will automatically reset the flash head zoom to 14mm and flash head zoom cannot be set.

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 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.

To use:

1. Align the diffuser with the flash head to the relevant slot.

2. Snap one side of the diffuser mount into the corresponding flash head mount.

3. Repeat step 3 on the other side of the diffuser.

Overheating Protection

The Phottix Juno contains an overheating protection circuit that will slow flash recycle time to avoid overheating-related damage. Approximately 20 full-power flashes in a short amount of time will trigger this protection. A (Hot!) Icon will appear when the overheating protection circuit is in operation.

To avoid further overheating or possible damage, wait 10 minutes before using the flash.

PC Sync Port

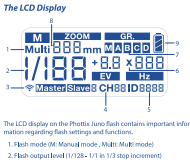
1. The PC Sync Port can be used with a PC sync cable (male) to trigger the flash – from a flash trigger or camera. This port is input only – flash signals are not output from this port.

Please note:

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

- Never use non Canon-compatible battery packs.

The LCD Display



The LCD display on the Phottix Juno flash contains important information regarding flash settings and functions.

1. Flash mode (M: Manual mode , Multi: Multi mode)

2. Flash output level (1/128 - 1/1 in 1/3 stop increment)

3. Wireless mode settin (Master, Slave, Slave 1, Slave 2 or off (not display)

4. Channels (CH1~16)

5. ID (CH5~16, ID0000~9999)

6. No. of flash in multi mode(1-90) and frequency display (1-100Hz)

7. Flash zoom range (within 14~200mm)

8. Group display (M,A,B,C,D)

9. Battery indicator

Note: Depends on chosen mode, not all settings will be display at the same time.

Auto-Save Functions

The Phottix Juno will remember flash settings. Mode, power levels, etc. will be retained in the flash if it is turned off and then back on.

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Setting Flash Zoom

The Phottix Juno Flash allows users to adjust flash head zoom from 14mm to 200mm.

To set:

1. Press the zoom button.

2. Rotate the adjustment wheel to increase or decrease the zoom distance.

3. Press the ⓪ button when the zoom adjusted.

Please Note:

When using the flash head diffuser panel zoom will set to 14mm and cannot be changed.

Auto-Idle Functions

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

1. In Non-Wireless Slave Modes; The flash will go into Auto Idle mode after 10/30/60 min depends on setting, 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.

2. In Wireless Radio Slave Mode (Slave mode but exclude slave 1 and slave 2), the flash will not go to auto idle.

Flash Modes

The Phottix Juno has two flash modes: Manual (M) and Multi (Stroboscopic).

To change modes:

1. Press the Mode button.

2. Rotate the Control Wheel until the desired mode.

3. Press Press the Set Button to set the new mode.

4. If the Set Button is not pressed the Juno will automatically set the new mode after approximately 10 seconds.

Manual (M) Mode

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

Adjusting Power Levels

1. Press the Set Button. The displayed power level will flash.

2. Rotate the Control Wheel until the desired power level is displayed.

3. Press the Set Button to set the new power level.

4. If the Set Button is not pressed the Juno will automatically set the new power level after approximately 10 seconds.

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. 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. Set the Juno to Multi mode (above).

2. Pressing the ⓪ button will cycle through the Power, Flash Count and Frequency settings. Each setting will flash when highlighted.

3. When highlighted, use the Control Wheel to adjust the setting.

4. Press the ⓪ button to continue to the next setting. After cycling through the three settings the display will revert to its native Multi Mode display

5. If the Set Button is not pressed the Juno will automatically set the new level(s) after approximately 10 seconds.

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 stop flashing and 'hot' icon will be indicated on screen, please allow the flash to cool down.

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 Maximum flash count chart.

Please refer to the table below for the maximum number of flashes that the Juno flash allow with certain power setting.

Flash Output	1/8	1/16	1/32	1/64	1/128
Flash count	4	8	12	24	24

Wireless Modes

The Phottix Juno has a built-in transceiver. It can be used to trigger other nearby Juno flashes using radio signal (when used as a "Master" transmitter). It can be set as a receiver "Slave" flash and be triggered by Juno Flashes in transmitter mode or by compatible Phottix Flash Triggers, or optically by other flashes.

Master Mode: The Juno Flash acts as transmitter and triggers other Juno flashes or compatible Phottix products. While set in Master Mode the Juno flash can also be used as a flash with power set from 1/1 to 1/128, or set not to fire.

Slave Mode: The Juno Flash act as a receiver and fires at the set power level when receiving a radio signal from the Phottix Juno flash in Master Mode or other compatible Phottix product.

S1 Mode: Optical Slave Mode: The Phottix Juno will be triggered when other nearby flashes fire.

S2 Mode: Optical Slave Delay Mode: The Phottix Juno will be triggered when other nearby flashes fire. This mode delays the triggering of the Juno to account for any TTL pre-flash signals that made cause unwanted early triggering.

Selecting Wireless Triggering Modes

To access and set the wireless triggering modes on the Juno:

1. Press the Wireless Mode Button.

2. The Wireless Icon in the bottom left of the Juno LCD will flash when this selection is active.

3. Use the Selection Wheel to cycle between Master (M), Slave (S), Slave 1 (S1) and Slave 2 (S2) modes.

4. Press the Set Button to select the wireless mode.

5. If the Set Button is not pressed the Juno will automatically set the selected mode after approximately 10 seconds.

Channels, Groups and Digital ID in Master and Slave Modes

In Master and Slave Wireless modes Channel, Group and Digital ID Codes can be set on each flash.

Channel: The channel (1~16) that the Juno transmits or receives signal on.

Group: Flashes can be designed to a group - A, B, C or D. Very useful when using several lights.

Digital ID: Allows a unique four digit code to be set on the Juno. The Juno will only trigger from another Phottix product using that unique code (when using Channels 5~16 only).

Adjusting Channels, Groups and Digital ID in Master and Slave Modes

1. Press the Channel/Group Button. The Channel Display on the LCD will begin to flash.

2. Rotate the Control Wheel to cycle between Channels, Groups and Digital ID.

3. To adjust: Press the Set Button when Channels, Groups and Digital ID is selected. The adjustable parameter will begin to flash.

4. Rotate the Control Wheel to make adjustments.

5. Press the Set Button after adjustments are made.

6. If the Set Button is not pressed the Juno will automatically set the selected mode after approximately 10 seconds.

Please Note:

- In S1 and S2 Modes only the power level can be set on the Juno.

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

- Ensure the slave flash's Wireless Signal Receiver Area faces toward the triggering flash.

- TTL pre-flashes will set off a flash set to S1 Slave mode. The flash will fire before the exposure. Do not mix S1 Slave mode with other flashes using TTL. In these situations use S2 Slave mode.

Adjusting Group in Master Mode

When using Wireless Master Mode on the Juno you can set Slave flashes Groups on On or Off. Groups set to Off will not trigger.

1. Press the Channel/Group Button. The Channel Display on the LCD will begin to flash.

2. Rotate the Control Wheel to cycle Groups.

3. Press the Set Button and Rotate the Control Wheel to the Group to be turned on/off.

4. Press the Set Button.

5. The LCD will display an ON or OF (OFF) to show the status of the group.

6. Press the Set Button and Rotate the Control Wheel to change the group from On to OFF.

7. The on-camera Flash in Master Mode is Group M. Power can be set (as above) or it can be turned off and used only as a trigger.

When using Wireless Modes Please Note:

- Make sure the M (Master) Juno and S (Slave) Juno are set to the same transmission channel (1~16). If Master and Slave flashes are set to different channels the Slave flashes will not fire.

- If used, make sure the same Digital ID Code is used on all Juno flashes. If the codes are different the flashes will not trigger.

Custom Functions

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

1. Press and hold the wireless and CH/GR button simultaneously to access the custom function menu.

2. Use the control wheel to select between speaker sound (SP) (on/off) or sleep mode time (SL) (10/30/60min/off).

3. To change a custom setting, press the set button while the custom setting is displayed.

4. Use the control wheel to make the selection value.

5. Press set to confirm.

Auto Backlight

The backlight will light up for approximately 15 seconds and then go off if no buttons are pressed..

Resetting to Factory Defaults

The Phottix Juno Flash can reset to factory defaults.

To reset the flash:

1. Press and hold the ⓪ and ⓪ buttons for 3 seconds.

2. The flash will reset to factory default settings.

3. All custom functions will be reset to factory defaults.

Changes to the flash capacitor:

If the flash is not used for some time 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.

Technical Specification

Flash mode: Manual(M), Multi(Multi)

Guide No.: 58 (ISO100, 200mm)

Flash head coverage: 20-200mm (14mm with wide angle diffuser)

Flash head angle: Top: 0~90 degree, Down: 0~7 degree, Left:0~180 degree, Right:0~180 degree

Battery: 4 AA alkaline or AA(Ni-MH) batteries

Recycle time: 0.1~5seconds

Multi flash frequency: 1~100Hz

Multi flash no: 1~24 time

Recycle power confirm: Test button lit red

Power saving: off, ~10 min,~ 30min,~ 60min

Wireless option: Master/Slave/S1/S2

Wireless range: Approx 100 meters

Dimension: 190x75x53mm

Weight: 380g

www.phottix.com

Printed in China

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.

To assure continued compliance, any changes or modifications not expressly approved by the party.

Responsible for compliance could void the user’s authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices).

This equipment 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.