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ZOOM II AA TTL SPEEDLIGHT R2 FOR CANON

THE NATURAL ON-CAMERA FLASH

Thank You for Choosing Flashpoint!

The new Flashpoint Zoom II AA R2 TTL Speedlight for Canon with Integrated R2 Radio Transceiver is the fully compatible on-camera speedlight for the Canon ETTL system. This advanced version delivers improved wireless abilities and a more refined and enhanced flash spread, with the advantage of AA Alkaline power dependability, using standard 1.5V AA cells universally available.

The Zoom II AA shares the ingenious R2 wireless communication system, controlling the widest variety of monolights and speedlights the photo industry offers. The incredible amount of power produced by this compact and lightweight unit and the integrated functions and features make the Zoom II R2 TTL the natural choice of a pro or amateur photographer.

Beneath the new Flashpoint Zoom II AA R2 TTL sleek design is a wireless command center for the proven R2 Wireless that's sure to amaze wherever your adventure. Well thought out menus, with simplicity and control at heart, keep you focused on the subject, not on tech. Direct Group access, AA dependency, ever primed for action, reaching across space with a flash so beautiful you'll wonder how we did it.

The R2 Family. Multiple distinct members from mini speedlights to monster monolights. Each one is the result of insight and refinement.

Becoming a frontrunner does not occur by coincidence.

Only by expertise.

Conventions used in this Manual

- This manual is based on the assumption that both the camera and camera flash's power switches are powered on.
- Reference page numbers are indicated by "p.**".
- The following alert symbols are used in this manual:

⚠ The Caution symbol gives supplemental information.

The Note symbol indicates a warning to heed.

Contents

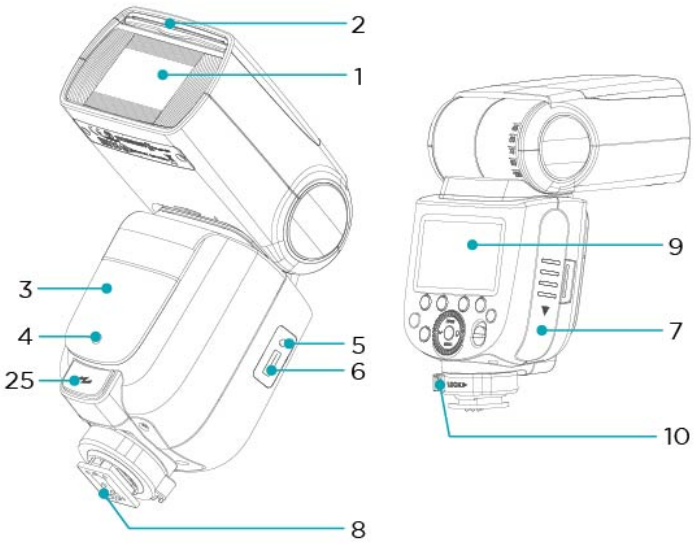
Safety Instructions

- Always keep this product dry. Do not use it in the rain or in damp conditions.
- This product contains high-voltage electronic parts. Touching the high-voltage circuit inside it may result in electric shock. Do not disassemble. Should repairs become necessary, this product must be sent to an authorized maintenance center.
- Stop using this product if it breaks open due to impact or force. Electric shock may occur if you touch the internal parts.
- Do not use the flash unit in the presence of flammable gases, chemicals, and ignitable materials. These materials may be sensitive to the strong light or electromagnetic interference emitted from this flash unit in certain circumstances.
- Do not leave or store the flash unit if the ambient temperature reaches over 120°F/50°C (e.g., in a sun-bathed automobile). Electronic parts may be permanently damaged.
- Do not insert metal parts into any lighting equipment.
- Do not touch the electrical contacts on the strobe or battery or contact them with any conductive materials.
- Do not fire the flash directly into the eyes, especially those of babies, within short distances. Visual impairment may occur. Keep the flash unit at least 3.3 feet (1 meter) away from them when taking pictures of babies. Using bounce flash to reduce light intensity is also recommended.
- This strobe has an over-heat protection circuit; rapid continuous firing will cause the strobe to slow operation and trigger a "cool down" period. After this period, the strobe will resume regular operation. You may also reset the strobe by cycling the power off and then on again.
- In case of abnormal function, sparks, excessive heat, flames, or smoke, immediately power off the unit and disconnect the battery, if safely possible. Have it checked by an authorized technician.

Features

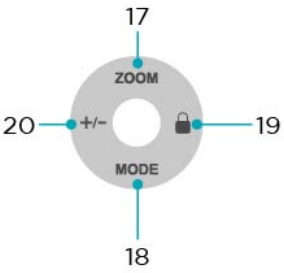
- Powerful GN 196ft / 60m @ISO 100 (200mm).
- Uses standard and rechargeable AA batteries for speedy recycling and longer life.
- Approximately 330 full-power flashes per 4 AA's.
- Can be connected to the Flashpoint Blast Pack BP-960 for even faster recycle times and longevity.
- Remote Canon ETTL control with the Flashpoint R2 system built-in.
- Complete compatibility with ETTL system features like exposure compensation, EXIF inscription, flash value lock, and High Speed Sync.
- R2 TTL communication flashes as a Transmitter or Receiver.
- Control of 4 different wireless groups.
- Receiver Mode operates on 5 Groups.
- Instant TTL to Manual Quick Switch.
- Level Lock Hot Shoe Foot Clamp.
- Backlit Matrix LCD.
- Multipurpose Buttons with Digital Marking for Faster Navigation.
- Zooming 20-200mm head with automatic or manual control.
- High Speed Sync for shutter speeds up to 1/8000 second.
- Front or Rear Curtain Sync.
- Laser AF Assist Lamp for Instant Autofocus Even in Complete Dark on Low Contrast Surfaces.
- Regular and Intelligent Optical Receiver Modes.
- 330-degree rotation and 120-degree tilt Head.
- Perfect for on and off-camera use.

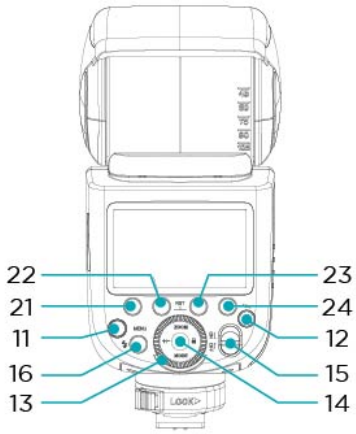
Name of Parts



Body

1. Flash Head
2. Built-in Wide Panel
3. Wireless Sensor
4. Focus Assist Beam
5. Sync Cord Jack
6. Type-C USB Port
7. Battery Cover
8. Hotshoe
9. LCD Panel
10. Hotshoe Lock Clamp





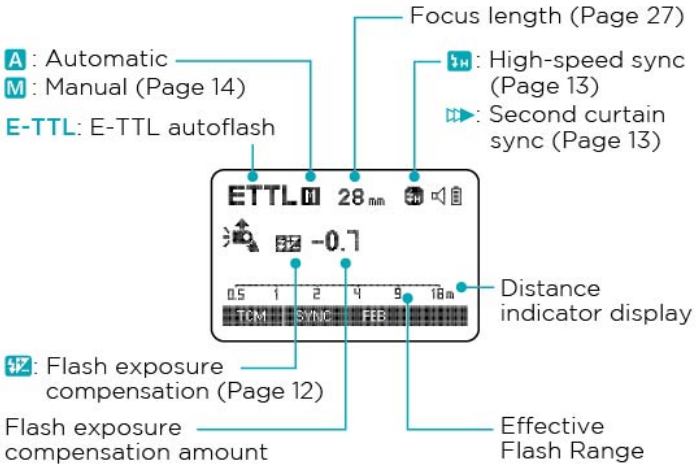
Control Panel

11. < MENU > Flash Menu Button/Locking Button
12. < > Wireless Selection Button
13. Select Dial
14. Set Button
15. ON/OFF Power Switch
16. < > Test Button/Flash Ready Indicator
17. < ZOOM > Focus Length Setting
18. < MODE > Mode Selection Button
19. < > Lock Setting
20. < +/- > Power Output
21. Function Button 1
22. Function Button 2
23. Function Button 3
24. Function Button 4
25. External Power Port

LCD Panel

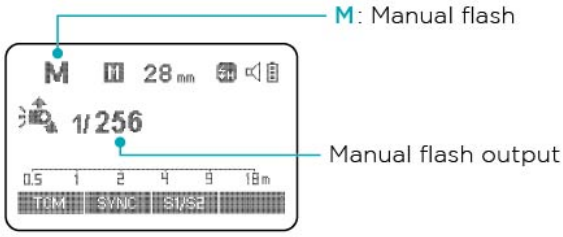
(1) E-TTL Autoflash

Zoom: zoom display (Page 27)

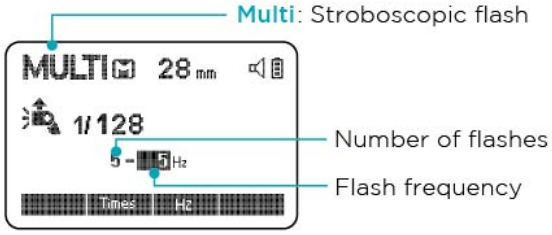


- The display shows the settings currently applied.
- The functions displayed above function buttons 1 to 4, such as SYNC and <A/B/C/D>, change according to settings' status.
- The LCD panel illuminates when buttons and dials are operated.

(2) M Manual Flash

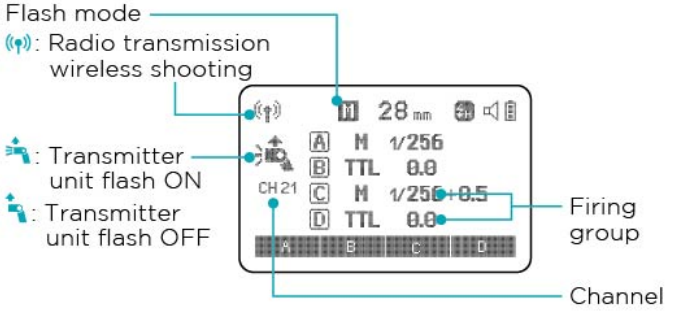


(3) Multi Flash

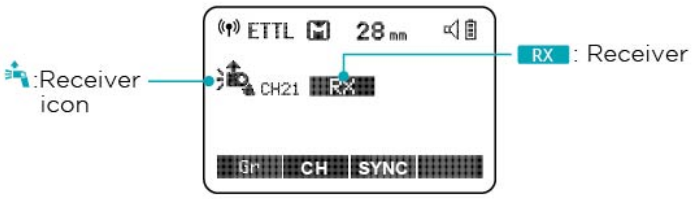


(4) Radio Transmission Shooting

- Transmitter Unit (TX)

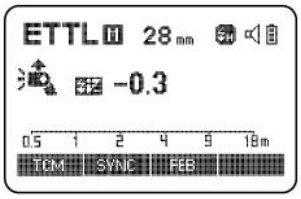


Receiver Unit (RX)

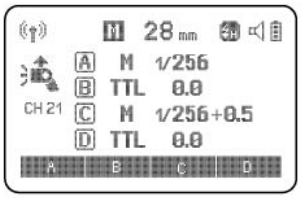


LCD Panel in Three Modes

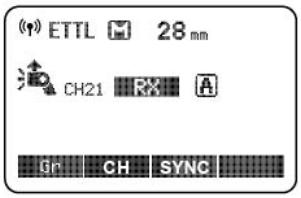
- Attached to the Camera



- R2 2.4GHz Radio Transmission: As a Transmitter Unit



- R2 2.4GHz Radio Transmission: As a Receiver Unit



What's in the Box of Flashpoint Zoom II AA?

1 Flash Unit

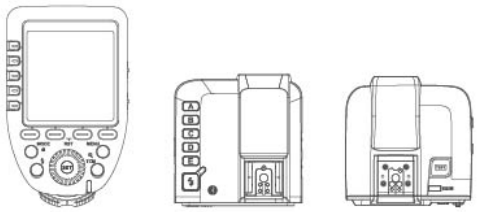
2 Mini Stand

3 Protection Case

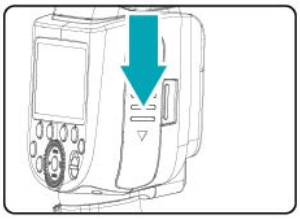
4 Instruction Manual

Separately Sold Accessories

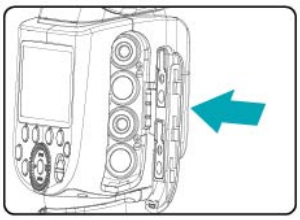
The product can be used in combination with the following accessories sold separately, for the best wireless remote control: Flashpoint R2ProC, R2T MarkII C, R2Pro Mark II C.



Loading and Unloading the Battery

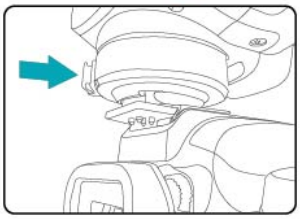


1 Slide open the cover of the battery chamber. Press the cover of the compartment and push the downward. The cover will lift and reveal the chamber.

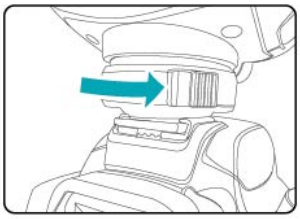


2 Put 4 AA Alkaline batteries in with the correct polarity after opening the battery compartment. Close the chamber over the batteries and slide the door upward until the lid locks.

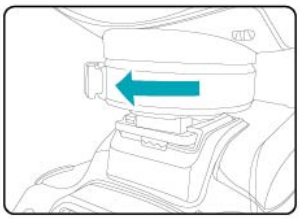
Attaching to a Camera



1 Attach the Camera Flash.
- Rotate the hotshoe lock clamp to the left and insert the flash into the camera's hotshoe.



2 Secure the Camera Flash.
- Rotate the hotshoe lock clamp to the right until it locks.



3 Detach the Camera Flash.
- Press the button and rotate the hotshoe lock clamp to the left until it is unlocked. Carefully slide the flash out of the cameras hotshoe channel.

Power Management

Use ON/OFF Power Switch to power the flash unit on or off. Turn the flash OFF if it will not be used for an extended period of time. When used as a transmitter flash, it will turn the power off automatically after approximately 90 seconds of idle use. Pressing the camera shutter halfway or pressing any flash button will wake up the flash unit. When used as a receiver flash, it will enter sleep mode after 60 minutes of idle use. Pressing any flash button will wake it up.

C.Fn Disabling Auto Power Off function is recommended when the flash is used off camera. (C.Fn-STBY, Page 28)

C.Fn Receiver Auto Power Off Timer is set to 60 minutes by default. Another option "30 minutes" is available. (C.Fn-RX STBY, Page 28)

Flash Mode: E-TTL Autoflash

This flash has three flash modes: E-TTL, Manual (M), and Multi (Stroboscopic). In E-TTL mode, the camera and the flash will work together to calculate the correct exposure for the subject and the background. In this mode, multiple TTL functions are available: FEC, FEB, FEL, HSS, second curtain sync, modeling flash, control with the camera's menu screen.

* Press < MODE > Mode Selection Button and three flash modes will display on the LCD panel one by one with each pressing,

ETTL Mode

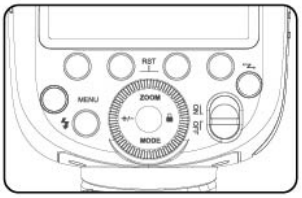
Press < MODE > Mode Selection Button to enter E-TTL mode.

- Press the camera release button halfway to focus. The aperture and effective flash range will be displayed in the viewfinder.
- When the shutter button is fully pressed, the flash will fire a pre-flash that the camera will use to calculate exposure and flash output the instant before the photo is taken.

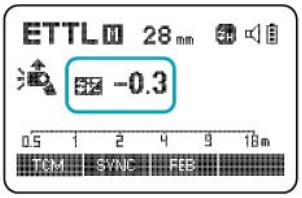
FEC: Flash Exposure Compensation

With FEC function, this flash can adjust from -3 to +3 in 1/3rd stops. It is useful in situations where minor adjusting of the TTL system is needed based on the environment and the subject.

FEC Setting:

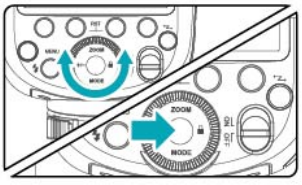


1 Press the < +/- > button. The icon < ± > and flash exposure compensation amount will be highlighted on the LCD panel.



2 Set the flash exposure compensation amount.

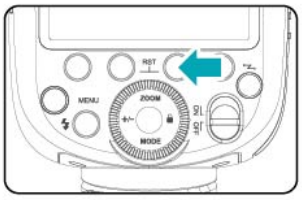
- Turn the Select Dial to set the amount.
- "0.3" means 1/3 stop. "0.7" means 2/3 stop.
- To cancel the flash exposure compensation, set the amount to "+0".



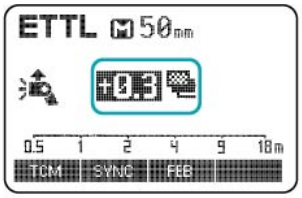
3 Press Set Button again to confirm the setting.

FEB: Flash Exposure Bracketing

You can take three flash shots while automatically changing the flash output for each shot from -3 to +3 in 1/3rd stops. The camera will record three images with different exposures: one exposed according to camera calculations, one over-exposed and another under-exposed. Over and under exposure amount is user adjustable. This function helps get correct exposure especially in shooting moving subjects or when environmental lights are complex.

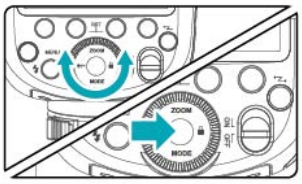


1 Press function button 3 < FEB >. The icon < ▣ > and the exposure bracketing amount will be highlighted on the LCD panel.



2 Set the flash exposure compensation amount.

- Turn the Select Dial to set the amount.
- "0.3" means 1/3 stop. "0.7" means 2/3 stop.



3 Press Set Button again to confirm the setting. Then your FEC and FEB settings are displayed on the LCD panel.

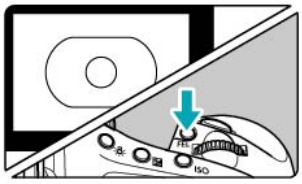
- FEB will be cancelled after three photos are taken.
- For best results, set the camera drive mode to "single" and ensure the flash is ready before shooting.
- FEB can be used with FEC and FEL.

C.Fn You can prevent the FEB from being cancelled automatically after three photos are taken. (C.Fn-FEB ACL, Page 28)

FEL: Flash Exposure Lock

FEL can lock the correct flash exposure setting for any part of the scene.

With < ETTL > displayed on the LCD panel, press the camera's < FEL > button. If the camera does not have the < FEL > button, press the < * > button.



1 Focus the subject.

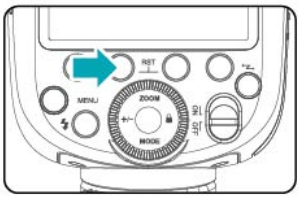
2 Press the < FEL > button.

- Aim the subject at the center of the viewfinder and press < FEL > button.
- The camera flash will fire a preflash and the required flash output for the subject is retained in memory.
- "FEL" will display on the viewfinder for 0.5s.
- The camera flash will fire a preflash and lock the flash exposure setting once the < FEL > button is pressed.

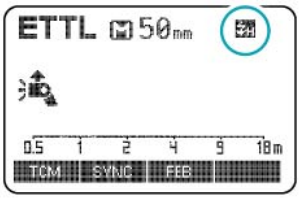
- If the subject is too far away and underexposure, the < ϟ > icon will blink in the viewfinder. Move closer to the subject and try the FE lock again.
- If < ETTL > is not displayed on the LCD panel, FE lock cannot be set.
- If the subject is too small, FE lock might not be very effective.

High-Speed Sync

High Speed Sync (FP flash) enables the flash to synchronize with all camera shutter speeds. This is convenient when you want to use aperture priority for fill-flash portraits.



1 Press function Button 2 < SYNC > so that < ϟH > is displayed.

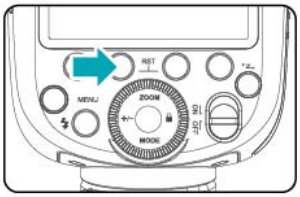


2 Check that < ϟH > is displayed in the viewfinder.

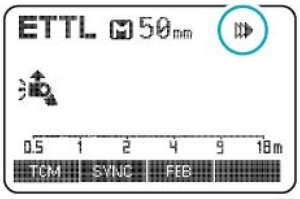
- If you set a shutter speed that is the same as or slower than the camera's maximum flash sync speed, < ϟ > will not be displayed in the viewfinder.
- With high-speed sync, the faster the shutter speed, the shorter the effective flash range.
- To return to normal flash, press < SYNC > button again. Then < ϟH > will disappear.
- Multi flash mode cannot be set in high-speed sync mode.
- Over-temperature protection may be activated after 15 consecutive high-speed sync flashes.

Second-Curtain Sync

With a slow shutter speed, you can create a light train following the subject. The flash fires right before the shutter closes.



Press function button 2 < SYNC > button so that < ⏩ > is displayed on the LCD panel.



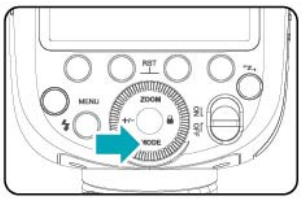
TCM: Preserving TTL Automation in Manual Settings

Select "TCM" for the 2 Way TTL to Manual settings and back again. TCM fusion overcomes the exposure fluctuations that may occur in TTL shooting by saving the successful exposure value to Manual settings for repeat capture accuracy. Changes in subjects under the same lighting conditions are nullified in the saved Manual settings.

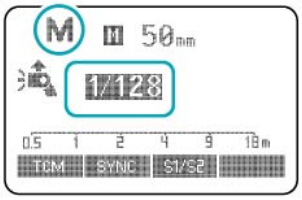
Push the TCM button to change the TTL value to Manual Mode settings. Push again to revert to the TTL Mode and its values.

M: Manual Flash

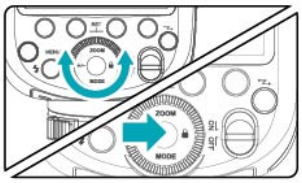
The flash output is adjustable from 1/1 full power to 1/256th power in 1/10th stop increments. To obtain a correct flash exposure, use a hand-held flash meter to determine the required flash output.



1 Press < MODE > button so that < M > is displayed.



2 Turn the Select Dial to choose a desired flash output amount.



3 Press Set Button again to confirm the setting.

Optic S1 Secondary Unit Setting

In M manual flash mode, press <S1/S2> button so that this flash can function as an optic S1 secondary flash with optic sensor. With this function, the flash will fire synchronously when the main flash fires, the same effect as that by the use of radio triggers. This helps create multiple lighting effects.

Optic S2 Secondary Unit Setting

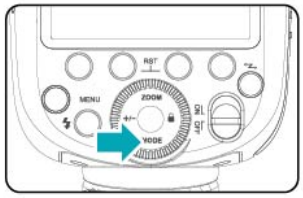
Press <S1/S2> button so that this flash can also function as an optic S2 secondary flash with optic sensor in M manual flash mode. This is useful when cameras have pre-flash function. With this function, the flash will ignore a single "preflash" from the main flash and will only fire in response to the second, actual flash from the main unit.

- S1 and S2 optic triggering is only available in M manual flash mode.

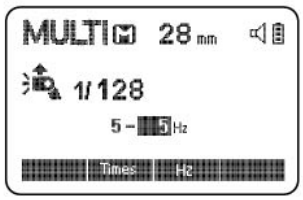
Multi: Stroboscopic Flash

With stroboscopic flash, a rapid series of flashes is fired. It can be used to capture a multiple images of a moving subject in a single photograph.

You can set the firing frequency (number of flashes per sec. expressed as Hz), the number of flashes, and the flash output.

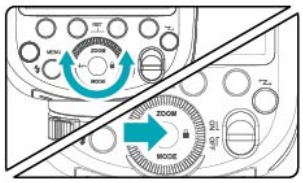


1 Press < MODE > button so that < MULTI > is displayed.



2 Set the flash frequency and flash times.

- Press the Function Button 2 < Times > to select the flash times. Turn the Select Dial to set the number.
- Press the Function Button 3 < Hz > to select the flash frequency. Turn the Select Dial to set the number.



3 Turn the Select Dial to choose a desired flash output. After you finish the setting, press Set Button and all the settings will be displayed.

Calculating the Shutter Speed

During stroboscopic flash, the shutter remains open until the firing stops. Use the formula below to calculate the shutter speed and set it with the camera.

Number of Flashes / Flash Frequency = Shutter Speed

For example, if the number of flashes is 10 and the firing frequency is 5 Hz, the shutter speed should be at least 2 seconds.

⚠ To avoid overheating and deteriorating the flash head, do not use stroboscopic flash more than 10 times in succession. After 10 times, allow the camera flash to rest for at least 15 minutes. If you try to use the stroboscopic flash more than 10 times in succession, the firing might stop automatically to protect the flash head. If this happens, allow at least 15 minutes' rest for the camera flash.

- Stroboscopic flash is most effective with a highly reflective subject against a dark background.
- Using a tripod and a remote control is recommended.
- A flash output of 1/1 and 1/2 cannot be set for stroboscopic flash.
- Stroboscopic flash can be used with "**BULB**".
- If the number of flashes is displayed as "**--**", the firing will continue until the shutter closes or the battery is exhausted. The number of flashes will be limited as shown by the following table.

Maximum Stroboscopic Flashes:

Flash output \ Hz	1	2	3	4	5	6-7	8-9
1/4	8	6	4	3	3	2	2
1/8	14	14	12	10	8	6	5
1/16	30	30	30	20	20	20	10
1/32	60	60	60	50	50	40	30
1/64	90	90	90	80	80	70	60
1/128	100	100	100	100	100	90	80
1/256	100	100	100	100	100	90	80

Flash output \ Hz	10	11	12-14	15-19	20-50	60-199
1/4	2	2	2	2	2	2
1/8	4	4	4	4	4	4
1/16	8	8	8	8	8	8
1/32	20	20	20	18	16	12
1/64	50	40	40	35	30	20
1/128	70	70	60	50	40	40
1/256	70	70	60	50	40	40

Wireless Flash Shooting: R2 2.4GHz Radio Transmission

⚠ When the camera's shooting mode is set to a fully automatic mode or an Image Zone mode, the operations in this chapter are not available. Set the camera's shooting mode to P/Tv/Av/M/B (Creative Zone Mode).

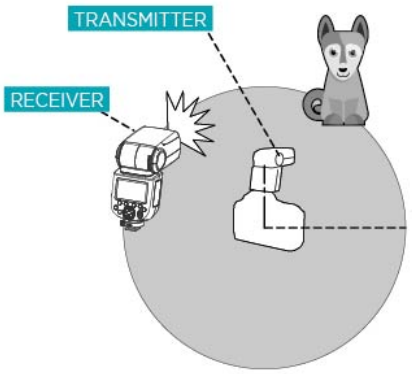
- The Zoom II AA flash mounted the camera is called the transmitter unit, and a Zoom II AA flash that is wirelessly controlled is called the receiver unit.
- You can also wirelessly control the Zoom II AA flash as the receiver unit with an R2 series transmitter, such as the Flashpoint R2 Pro Mark II (sold separately). For details on setting the transmitter unit functions, see the transmitter's instructions.

Using a flash (transmitter/receiver) with a radio transmission wireless shooting function make it easy to shoot with advanced wireless multiple flash lighting, in the same way as E-TTL II autoflash shooting.

The basic relative position and operation range are as shown in the picture. You can then perform wireless E-TTL II autoflash shooting just by setting the transmitter unit to < ETTL >.

Positioning and Operation Range
(Example of wireless flash shooting)

- Autoflash Shooting with One Receiver Unit

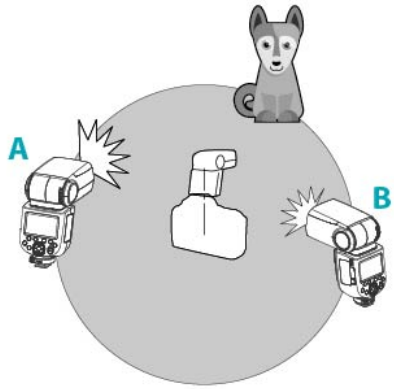


- Use the supplied mini stand to position the Receiver unit.
- Before shooting, perform a test flash and test shooting.
- The transmission distance might be shorter depending on conditions such as positioning of the Receiver units, the surrounding environment and weather conditions.

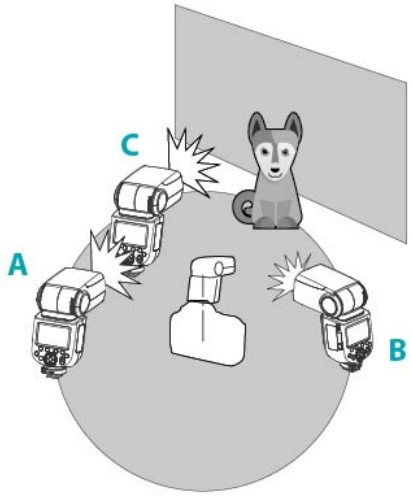
Wireless Multiple Flash Shooting

You can divide the Receiver units into two or three groups and perform E-TTL II autoflash while changing the flash ratio (factor). In addition, you can set and shoot with a different flash mode for each firing group, for up to 4 groups.

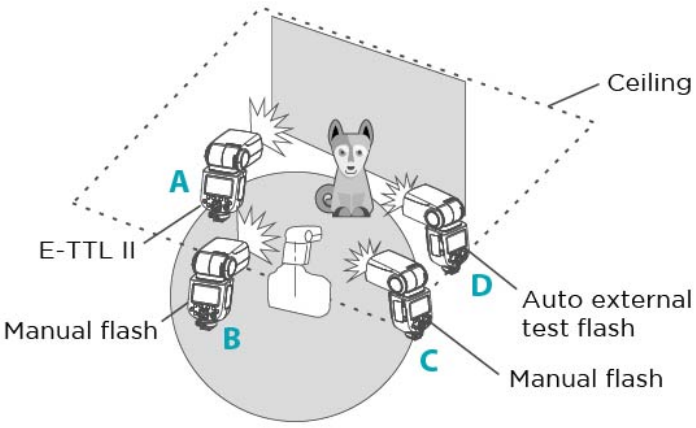
- Auto Shooting with Two Receiver Groups



- Auto Shooting with Three Receiver Groups



- Shooting with a Different Flash Mode set for Each Group

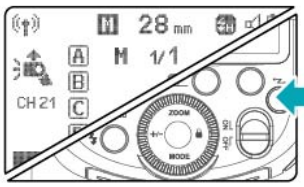


* The flash mode settings are indicated only as an example.

1. Wireless Settings

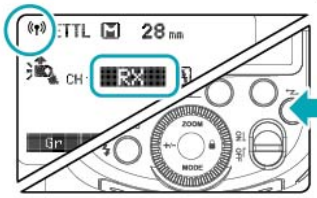
You can switch between normal flash and wireless flash. For normal flash shooting, be sure to set the wireless setting to OFF.

Transmitter Unit Setting



Press < ⇆ > button so that < ((•)) > is displayed on the LCD panel.

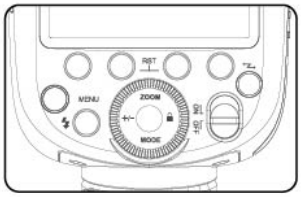
Receiver Unit Setting

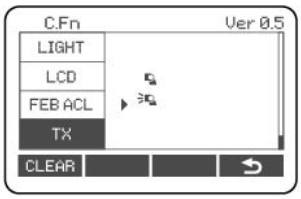


Press < ⇆ > button so that < ((•)) > or < RX > are displayed on the LCD panel.

2. Transmitter Unit's Flash OFF

When the Transmitter unit is set to OFF, only the Receiver units will fire a flash.





1 Press < MENU > Button to enter C.Fn Transmitter setting.

2 Set Transmitter to ON/OFF to control the On/Off of the Transmitter unit.

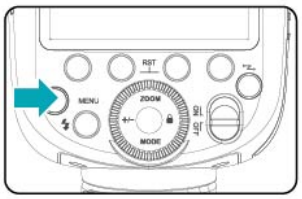
< ⚡ >: The Transmitter unit flash firing is ON.

< ⚡ >: The Transmitter unit flash firing is OFF.

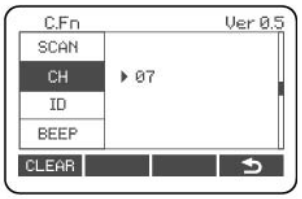
- Even if the Transmitter unit flash firing is disabled, it still fires a preflash to transmit wireless signals.

3. Setting the Communication Channel

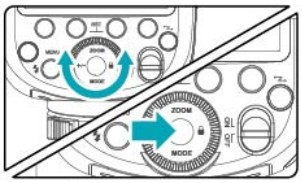
If there are other wireless flash systems nearby, you can change the channel values to prevent signal interference. The channel value of the Transmitter unit and the Receiver unit(s) must be set to the same.



1 Press < MENU > Button to enter C.Fn CH setting.



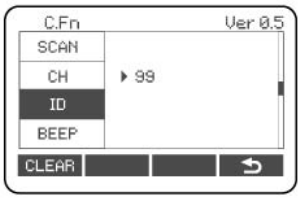
2 In C.Fn CH, turn the Select Dial to choose channel value from 1 to 32.



3 Press the Set Button to confirm.

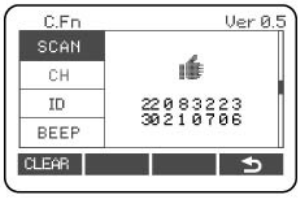
4. Wireless ID Settings

Change the wireless channels and wireless ID to avoid interference for it can only be triggered after the wireless IDs and channels of the Transmitter unit and the Receiver unit are set to the same. Press the <MENU> button to enter C.Fn ID. Press the Set Button to choose OFF channel expansion shutdown, and choose any figure from 01 to 99.



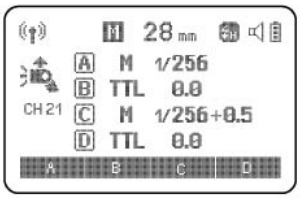
5. Scan the Clear Channel

To avoid the interference of using the same channel by others, this function can be used: enter the C.Fn settings and find the SCAN option. When setting it to START, it will scan from 1% to 100%. And the 8 clearest channels will be displayed after the scan is completed.



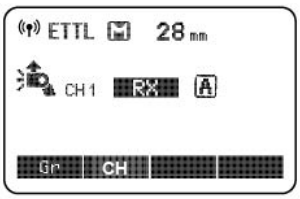
6. ETTL : Fully Automatic Wireless Flash Shooting

Using Automatic Wireless Flash with a Single Receiver Unit.



1 Transmitter Unit Setting.

- Attach a Zoom II AA flash on the camera and set it as the Transmitter unit.
- The R2 Pro C and similar can also be used as Transmitter unit. R2 Transmitters can control the ZOOM value on a Zoom II AA. When the ZOOM is adjusted to auto (A) mode.



2 Receiver Unit Setting.

- Set wireless controlled Zoom II AA as the wireless Receiver Unit. (Page 19)

3 Check the communication channel.

- If the Transmitter unit and Receiver unit(s) are set to a different channel, set them to the same channel. (Page 20)

4 Position the camera and flashes.

- Position the camera and flashes as the picture shows. (Page 17)

5 Set the Transmitter unit's flash mode to < ETTL >.

- Set the Transmitter unit's flash mode to < ETTL >.
- For shooting, < ETTL > will automatically be set for the Receiver unit.
- Set the Transmitter unit flash firing as ON to fire a flash. (Page 19)

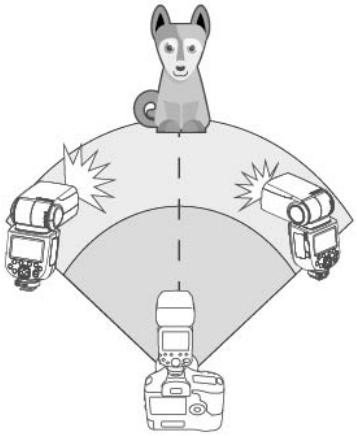
6 Check that the flash is ready.

- Check that the Transmitter flash ready indicator is lightened.
- When the Receiver flash ready indicator is ready, the AF-assist beam lighting area will blinks at 1 second intervals.

7 Check the flash operation.

- Press the Transmitter unit's Test Button < ϟ >.
- Then, the Receiver unit will fire. If not, adjust the Receiver unit's angle toward the Transmitter unit and distance from the Transmitter unit.

Using Automatic Wireless Flash with Multiple Receiver Units



When stronger flash output or more convenient lighting operation is needed, increase the number of Receiver units and set it as a single Receiver unit. To add Receiver units, use the same steps as setting "automatic wireless flash with a single Receiver unit". Any flash group can be set (A/B/C/D/E). When the number of Receiver units is increased and the Transmitter unit flash firing is ON, automatic control is implemented to make all groups of flashes fire the same flash output and ensure the total flash output up is to standard exposure.

- Press the depth-of-field preview button on the camera to fire a modeling flash.
- If the Receiver unit's auto power off function is workable, press the Transmitter unit's test button to power it on. Please note that test firing is unavailable during the camera's regular metering time.
- The effective time of Receiver auto power off is changeable. (C.Fn-RX STBY Page 28)
- By making some settings, the auto AF-assist transmitter will not blink after the Receiver unit's flash ready indicator is lightened. (C.Fn-AF Page 28)

Using Fully Automatic Wireless Flash

The FEC and other settings that set on the Transmitter unit will also be appeared on the Receiver unit automatically. The Receiver unit does not need any operation. Use the following settings to make wireless flashes according to the same methods with normal flash shooting.

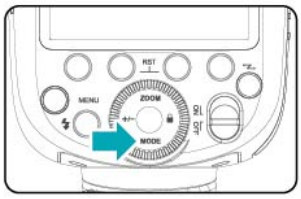
- Flash Exposure Compensation (Page 10)
- Flash Exposure Lock (Page 12)
- Manual Flash (Page 27)
- Stroboscopic Flash (Page 15)

About the Transmitter Unit

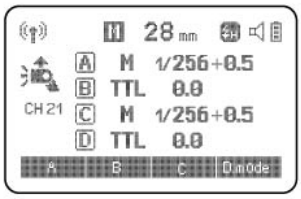
Use two or more Transmitter units. By preparing several cameras that with Transmitter units flash attached, cameras can be changed in shooting while keeping the same lighting source (Receiver unit).

7. M: Wireless Flash Shooting with Manual Flash

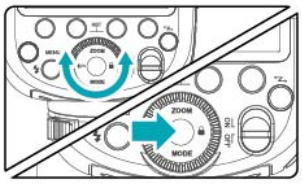
This describes wireless (multiple shooting) using manual flash. You can shoot with a different flash output setting for each Receiver unit (firing group). Set all parameters on the Transmitter unit.



1 Setting the flash mode to < M >.



2 Setting flash output.
- Press FunctionButton 1/2/3/4 < A/B/C/D >. Turn the Select Dial to set the flash output of the groups. Press Set Button to confirm.



3 Taking the picture.
- Each group fires at the set flash ratio.

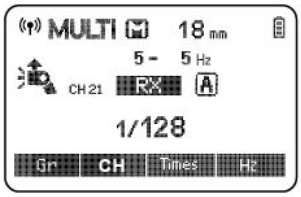
Setting < M > Flash Mode

You can directly operate the Receiver unit to manually set the manual flash or stroboscopic flash.

1 Setting the Receiver unit.

2 Setting flash mode to < M >.
- Press < MODE > button so that < M > is displayed.
- Set the manual flash output. (Page 27)

8. Multi: Wireless Flash Shooting with Manual Flash



1 Setting < MULTI > stroboscopic flash.
- Press <MODE> button so that <MULTI> is displayed.
- Setting the stroboscopic flash. (Page 15)

⚠ Troubleshooting Wireless R2 2.4GHz communication problems.

1. Interference from other 2.4GHz device signals (e.g. wireless base station, 2.4G wifi router, Bluetooth, etc.)

→ Adjust the channel CH setting on the flash trigger (add 10+ channels) and use the channel which is not in conflict or turn off the other devices that are causing the problem.

2. Please make sure that whether the flash has finished its recycle or caught up with the continuous shooting speed and the flash is not under the state of over-heat protection.

→ Lower the flash power output. If the flash is in TTL mode, try to change it to M mode (a preflash is needed in TTL mode).

3. Which can place additional demands on the recycle of the fleash. The distance between the flash trigger and the flash is too close. (<1.6ft/0.5m)

→ Turn on the "close distance wireless mode" on the flash trigger.

R2 series: press the test button and hold on, then turning it on until the flash ready indicator blinks for 2 times.

R2 Pro series: Set the C.Fn-DIST to 0-100ft/1-30m.

4. The flash trigger and the receiver end equipment are in the low battery.

→ Replace the battery in the flash trigger with 1.5V disposible alkaline cells, only.

More Features

Sync Triggering

The Sync Cord Jack is a Φ2.5mm plug. Insert a trigger plug here and the flash will be fired synchronously with the camera shutter.

Auto Focus Assist Beam

In poorly-lit or low-contrast shooting environments, the built-in auto focus assist beam will automatically light on to make it easier for autofocus. The beam will light up only when autofocus is difficult and get out as soon as the autofocus becomes correct.

If you want to turn off the auto focus assist beam, set the "AF" to "OFF" on the C.Fn settings.

- If you find the auto focus assist beam does not light up, this is because the camera has got a correct autofocus.

Position	Effective Range
Center	0.6~10m/2.0~32.8 feet
Periphery	0.6~5m/2.0~16.4 feet

Using External Power Sources

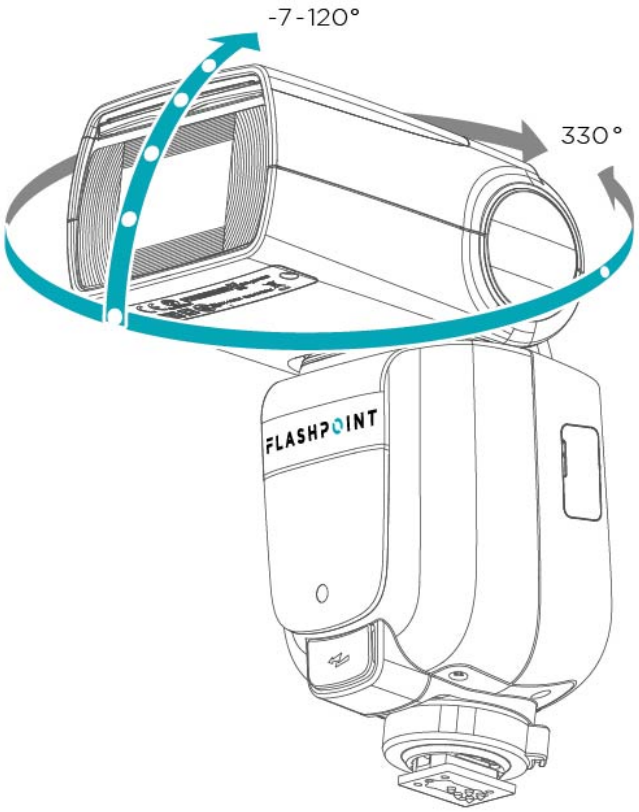
A convenience High Voltage Port on the front of the flash [25], just beneath the red panel facing, provides direct cable connection to external energy sources, such as the Flashpoint Lithium Blast Pack. Simply choose the appropriate cord for the speedlight manufacturer, and the Blast Pack will provide the correct power for quick recycle times and extended shooting time. The Blast Pack can supercharge most professional speed lights to provide a 1-1.5 second FULL POWER recycle, consistently through the battery's life, which is rated for up to thousands of full power shots per charge.

Plug the Flashpoint FP-CZ Cable for Canon carefully into the port, that comes with the Flashpoint Blast Power Pack PB-960-SKU: FPPPBP960CA. Other external power sources may use a different cable. Replace the cover to the port after removing the cable.

Bounce Flash

By pointing the flash head toward a wall or ceiling, the flash will bounce off the surface before illuminating the subject. This can soften shadows behind the subject for a more natural-looking shot. This is called bounce flash.

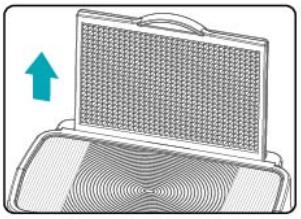
To set the bounce direction, hold the flash head and turn it to a prefered angle, into a white surface.



- If the wall or ceiling is too far away, the bounced flash might be too weak and result in underexposure.
- The wall or ceiling should be a plain, white color for high reflectance. If the bounce surface is not white, a color cast may appear in the picture.

Creating a Catchlight

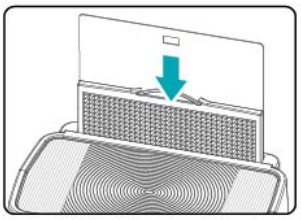
With the catchlight panel, you can create a catchlight in the subject's eyes to add life to the facial expression.



1 Point the flash head upward by 90°.

2 Pull out the wide panel.

- The catchlight panel will come out at the same time.



3 Push the wide panel back in.

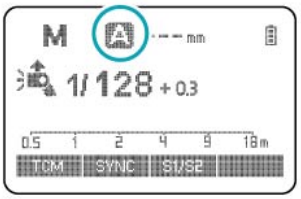
- Push in only the wide panel.
- Follow the same procedures as for bounce flash.

Notes:

- Point the flash head straight ahead and then upward by 90°. The catchlight will not appear if you swing the flash head left or right.
- For maximum catchlight effect, stay 1.5m/4.9ft away from the subject.

ZOOM: Setting the Flash Coverage

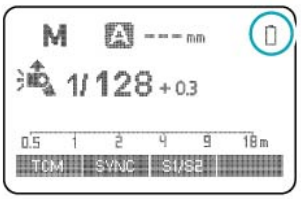
The flash coverage can be set automatically or manually. It can be set to match the lens focal length from 20mm to 200mm.



In Manual Zoom mode, press the < ZOOM > button.

- Turn the Select Dial to change the flash coverage.
- If < A > is displayed, the flash coverage will be set automatically.

If you set the flash coverage manually, make sure it covers the lens focal length so that the picture will not have a dark periphery.



Low Battery Warning

If the battery power is low, < > will appear and blink on the LCD panel. Please replace the batteries immediately.

C.Fn: Setting Custom Functions

The following table lists the available custom functions of this flash.

Custom Function Signs	Function	Setting No.	Settings & Description
m/ft	Distance indicator	m	m
		ft	feet
AF	AF-assist beam RX	ON	ON
		OFF	OFF
STBY	Auto sleep setting	ON	ON
		OFF	OFF
RX STBY	Receiver auto power off timer	60min	60min
		30min	30min
SCAN	Scan the clearest channel	OFF	OFF
		START	Start to find the clear channels
CH	Channel setting	01~32	Choose channels from 01-32
ID	Wireless ID	OFF	Off
		01-99	Choose any figure from 01-99
BEEP	Beeper	ON	ON
		OFF	OFF
LIGHT	Backlighting time	12 sec.	Off in 12 sec.
		OFF	Always off
		ON	Always lighting
LCD	LCD contrast ratio	-3~+3	7 levels
FEB ACL	FEB auto cancel	ON	ON
		OFF	OFF
TX	Transmitter unit control		OFF
			ON
TX DIST	Firing distance	1-325ft/1-100m 0-100ft/0-30m	1-325ft/1-100m firing 0-100ft/0-30m firing

1. Press < MENU > Button until C.Fn menu is displayed. The "Ver x.x" in the top-right corner refers to the firmware version.
2. Select the Custom Function No.
   - Turn the Select Dial to select the Custom Function No.
3. Change the Setting.
   - Press Set Button and the Setting No. blinks.
   - Turn the Select Dial to set the desired number. Pressing Set Button will confirm the settings.
   - After you set the Custom Function and press < MENU > button, the flash will be ready to shoot.
4. To reset the Custom Functuions to factory settings, go to C.Fn, long press the "Clear" button for 2 seconds until "OK" is displayed on the panel.

Control with the Camera's Menu Screen

If the camera flash is attached to an Canon EOS camera which has a speedlite control function, the flash can be controlled using the camera's menu screen. For the menu operation procedure, refer to your camera's instruction manual.

- **Setting Camera Flash Functions**

  The following flash functions are settable according to different flash modes.

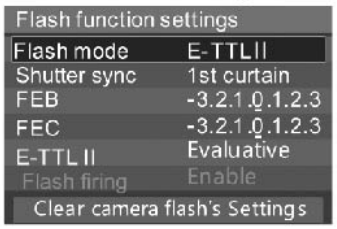
  1. Flash mode
  2. Shutter sync (1st/2nd curtain, high speed sync)
  3. FEB
  4. Flash exposure compensation
  5. Flash firing
  6. Clear camera flash's settings

- **Custom Functions of Camera Flash**

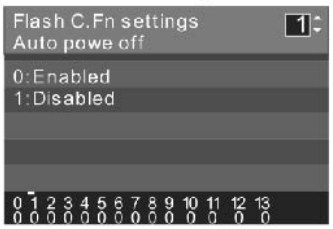
  C.Fn-00, C.Fn-01, C.Fn-03, C.Fn-08, C.Fn-10, C.Fn-20, C.Fn-22.

Clear All Flash Custom Functions

Flash function settings screen



Flash C.Fn settings screen



* Screens from the EOS-1D Mark III.

- If flash exposure compensation has already been set with the camera flash, flash exposure compensation cannot be set with the camera. To set it with the camera, the camera flash's flash exposure compensation must be set to zero.
- If any Flash Custom Functions and flash settings other than flash exposure compensation have been set by both the camera and the flash, the latest settings will take effect.

Protection Function

1. Overheat Protection

- To avoid overheating and deteriorating the flash head, do not fire more than 40 continuous flashes in fast succession at 1/1 full power. After 40 continuous flashes, allow a rest time of at least 10 minutes.
- If you fire more than 40 continuous flashes and then fire more flashes in short intervals, the inner over-temperature protection function may be activated. If this occurs, allow a rest time of about 10 minutes, and the flash unit will then return to normal.
- When the over-temperature protection is started,  is shown on the LCD display.

Number of flashes that will activate overheat protection:

Number of Flashes \ ZOOM (mm) / Power Output Level	20	24	28	35	50	70	80	105	135	200
1/1	40	50	50	60	60	70	70	80	80	80
1/2	50	60	60	75	75	100	100	100	100	100
1/4	100	100	100	100	120	150	150	150	150	150
1/8	200	200	200	200	200	200	200	200	200	200
1/16	300	300	300	300	300	300	300	300	300	300
1/32	500	500	500	500	500	500	500	500	500	500
1/64	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
1/128	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000

Number of flashes that will activate overheat protection in high-speed sync triggering mode:

Number of Flashes \ ZOOM (mm) / Power Output Level	20-200
1/1	30
1/2	30
1/4	34
1/8	40
1/16	50
1/32	50
1/64	60
1/128	60

2. Other Protections

The system provides real-time protection to secure the device and your safety. The following lists prompts for your reference:

Prompts on LCD Panel	Definition
E1	A failure occurs on the recycling system so that the flash cannot fire. Please restart the flash unit. If the problem still exists, send this product to a maintenance center.
E2	The system is overheating. Allow a rest time of 10 minutes.
E3	The voltage on two outlets of the flash tube is too high. Please send this product to a maintenance center.
E9	There are some errors occurred during the firmware update process. Try again, with care to use the correct firmware upgrade method.

Technical Data

Model	Flashpoint ZOOM II AA for CANON
Compatible Cameras	Canon EOS cameras (E-TTL II autoflash)
Guide No. (1/1 output, 200mm)	GN 196ft / 60m (100ISO)
Flash Coverage	20 to 200mm
	• Auto zoom (Flash coverage set automatically to match the lens focal length and image size)
	Manual zoom • Swinging/tilting flash head (bounce flash): 0 to 330° horizontally and -7° to 120° vertically
Flash Duration	1/300 to 1/20000 seconds
• Exposure Control	
Exposure control system	E-TTL II autoflash and manual flash
Flash exposure compensation (FEC)	Manual. FEB: ±3 stops in 1/3 stop increments (Manual FEC and FEB can be combined.)
FE lock	With <FEL> button or < * > button
Sync mode	High-speed sync (up to 1/8000 seconds), first-curtain sync, and second-curtain sync
Multi flash	Provided (up to 100 times, 199Hz)
• Wireless Flash (2.4G Radio Transmission)	
Wireless flash function	Transmitter, Receiver, Off
Transmitter groups	A, B, C, D
Controllable Receiver groups	A, B, C, D, E (E group can be controlled by R2 series flash trigger)
Transmission range (approx.)	325ft/100m
Channels	32 (1~32)
ID	01~99
Modeling flash	Fired with camera's depth-of-field preview button
• Auto Focus Assist Beam	
Effective range (approx.)	Center: 1.96-32ft / 0.6-10m
	Periphery: 1.96-16.4ft / 0.6-5m
• Power Supply	
Power source	4-NI-MH battery (recommended) or LR6 alkaline battery
Recycle time	0.1-2.6s (AA alkaline battery)
Full power flashes	About 330 times
Power saving	Power off automatically after approx. 90 seconds of idle operation. (60 minutes if set as Receiver)
• Sync Triggering Mode	Hotshoe, 2.5mm sync line
• Dimensions	
W x H x D	2.5 x 3.0 x 7.5in / 64 x 76 x 190mm
Weight without battery	14.3oz / 405g
Weight with battery	17.25oz / 489g
2.4G Frequency Range	2413.0 MHz - 2465.0 MHz
Max. Transmitting Power	5 dbm

Troubleshooting

If there is a problem, refer to this Troubleshooting Guide.

The Camera Flash does not fire.

- The camera flash is not attached securely to the camera.
  → Attach the camera's mounting foot securely to the camera.
- The electrical contacts of the Camera Flash and camera are dirty.
  → Clean the contacts.
- < ϟ > or < ϟH > is not displayed in the view finder of camera.
  → Wait until the flash is fully recycled and the flash ready indicator lights up.
  → If the flash ready indicator lights up, but < ϟ > or < ϟH > is not displayed in the view finder, check whether this flash unit is securely attached to the camera hotshoe.
  → If the flash ready indicator does not light up after a long wait, check whether the battery power is enough. If the battery power is low, < ▯ > will appear and blink on the LCD panel. Please replace the battery immediately.

The power turns off by itself.

- After 90 seconds of idle operation, auto power off took effect if the flash is set as Transmitter.
  → Press the shutter button halfway or press any flash button to wake up.
- After 60 minutes (or 30 minutes) of idle operation, the flash unit will enter sleep mode if it is set as Receiver.
  → Press any flash button to wake up.

Auto zoom does not work.

- The camera flash is not attached securely to the camera.
  → Attach the camera flash's mounting foot to the camera.

The flash exposure is underexposed or overexposed.

- There was a highly reflective object (e.g. glass window) in the picture.
  → Use FE lock (FEL).
- You used high-speed sync.
  → With high-speed sync, the effective flash range will be shorter. Make sure the subject is within the effective flash range displayed.
- You used Manual Flash mode.
  → Set the flash mode to ETTL or modify the flash output.

Photos have dark corners or only parts of the target subject are illuminated.

- The focal length of lens exceeds the flash coverage.
  → Check the flash coverage you set. This flash unit has the flash coverage between 20 and 200mm, to the standard of 35mm full frame format cameras.

Firmware Upgrade

- The USB port is a Type-C USB socket. Type-C USB connection line is applicable.
- The firmware upgrade is performed through a connection to a computer using Flashpoint F3 software app software, please download and install the Flashpoint F3 Firmware Update Software before downloading the newest firmware for this flash.

Compatible Camera Models

This flash unit can be used on the following Canon EOS series camera models:

5D Mark II	70D	6D	7D	60D	50D	30D	600D	90D
5D Mark IV	7D Mark II	760D	750D	80D	500D	77D		
R	EOS 1DX	200D II	800D					

- This table only lists the tested camera models, not all Canon EOS series cameras. For the compatibility of other camera models, a self-test is recommended. Rights to modify this table are retained.

Maintenance

- Shut down the device immediately should abnormal operation be detected.
- Avoid sudden impacts and the product should be cleaned regularly.
- It is normal for the flash tube to be warm when in use. Avoid continuous flashes if unnecessary.
- Maintenance of the flash must be performed by our authorized maintenance department which can provide original parts.
- This product, except consumables e.g. flash tube, is supported with a one-year warranty.
- Unauthorized service will void the warranty.
- If the product fails to operate or was exposed to water, do not use it until it is repaired by professionals.
- Changes made to the specifications or designs may not be reflected in this manual.

FCC Warning

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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement.

The device can be used in portable exposure condition without restriction.

One Year Flashpoint Limited Warranty

Flashpoint warrants to the original purchaser that your Flashpoint Zoom Mini shall be free from defects in material and workmanship for the period of one (1) year from the date of purchase (or delivery as may be required in certain jurisdictions), or thirty (30) days after replacement, whichever comes later.

Flashpoint's entire liability and your exclusive remedy for any breach of warranty shall be, at Flashpoint's option, to repair or replace the hardware, provided that the hardware is returned to the point of purchase or such other place as Flashpoint may direct with a copy of the sales receipt or dated itemized receipt. Flashpoint may, at its option, replace your product, offer to provide a functionally equivalent product, or repair any product with new, refurbished or used parts as long as such parts are in compliance with the product's technical specifications. Any replacement hardware product will be warranted for the remainder of the original warranty period or thirty (30) days, whichever is longer, or for any additional period of time that may be applicable in your jurisdiction. If the product has been discontinued, the warranty provider reserves the right to replace it with a model of equivalent quality and function.

This warranty does not cover problems or damage resulting from accident, abuse, misapplication, or any unauthorized repair, modification or disassembly, improper operation or maintenance, normal wear and tear, or usage not in accordance with product instructions or connection to improper voltage supply, use of consumables, such as replacement batteries, not supplied by Flashpoint, except where such restriction is prohibited by applicable law.

Except where prohibited by applicable law, this warranty is nontransferable and is limited to the original purchaser and the country in which the product was purchased. This warranty gives you specific legal rights, and you may also have other rights, including a longer warranty duration that may vary under local laws.

To start a warranty claim contact the Flashpoint Customer Service Department to obtain a return merchandise authorization("RMA") number, and return the defective product to Flashpoint, along with the RMA number and proof of purchase.

Question about our product line? Need Product Support?

We are proud of our products and celebrate our customers. We are with you, from product selection to everyday use. Be secure with your purchase and reach us as you need.

212-647-9300

brands@adorama.com

Adorama Brands,
42 West 18th Street,
New York, NY 10011

You can always contact us at BRANDS@ADORAMA.COM for personal technical support.
Our website contains a wide range of Support and FAQ pages with valuable technical assistance.