FLASHPOINT

FPLFSMZOII

ZOOM II AA TTL SPEEDLIGHT R2

FOR PANASONIC & OLYMPUS

THE NATURAL ON-CAMERA FLASH

Thank You for Choosing Flashpoint!

The new Flashpoint Zoom II AA R2 TTL Speedlight for Panasonic and Olympus Mirrorless with Integrated R2 Radio Transceiver is the fully compatible on-camera speedlight for the Panasonic and Olympus TTL systems. 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 indicates a warning to prevent shooting problem.

The Note symbol gives supplemental information.

Contents

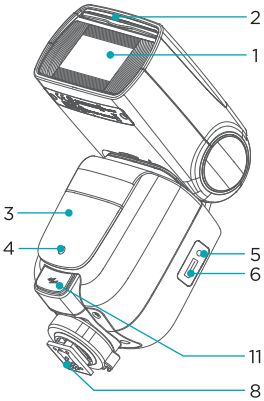
Safety Instructions

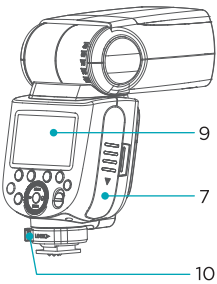
- Always keep this product dry. Do not use it in the rain or in damp conditions.
- This product contains high-voltage electronic parts. Touching the high-voltage circuit inside it may result in electric shock. Do not disassemble. Should repairs become necessary, this product must be sent to an authorized 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 290 full-power flashes per 4 AA's batteries.
- Can be connected to the Flashpoint Blast Pack BP-960 for even faster recycle times and longevity.
- Remote Panasonic and Olympus TTL control with the Flashpoint R2 system built-in.
- Complete compatibility with TTL 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.
- Focal length of lens coverage adjustable to the camera format.
- 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.

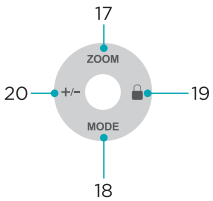
Name of Parts

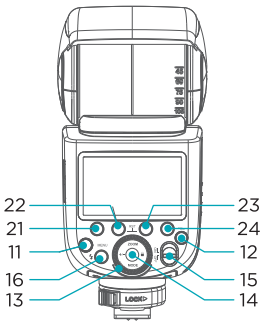




Body

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 Lever
11. External Power Port





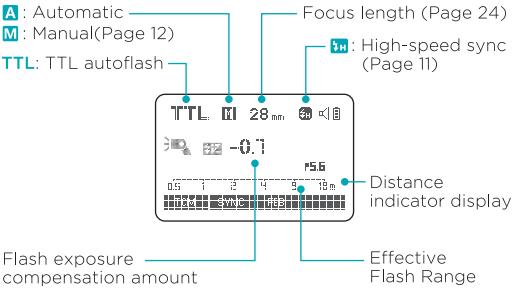
Control Panel

11. < MENU > Flash Menu Button/Locking Button
12. < > Wireless Selection Button
13. Select Dial
14. Set Buttonl
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

LCD Panel

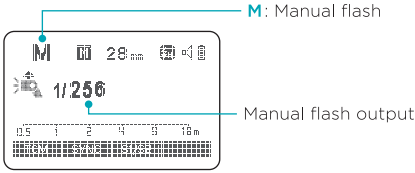
(1) TTL Autoflash

Zoom: zoom display (Page 24)

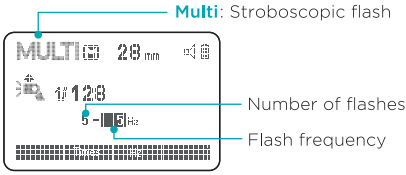


- The display shows the settings currently applied.
- The functions displayed above function buttons 1 to 4, such as SYNC and <M/B/C/D>, change according to settings' status.
- The LCD panel illuminates when buttons and dials are operated.
- TCM Function Button 1 selects the instant switch between values in TTL and Manual Modes.

(2) M Manual Flash

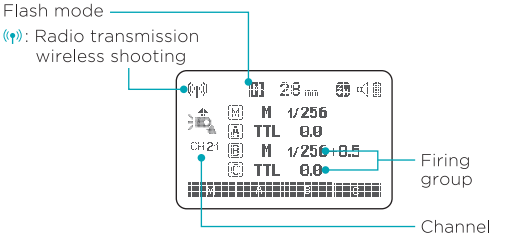


(3) Multi Flash

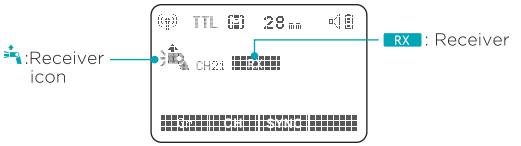


(4) Radio Transmission Shooting

- Transmitter Unit (TX)

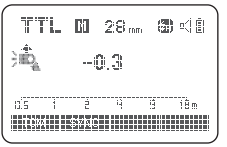


Receiver Unit (RX)

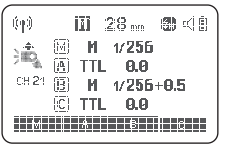


LCD Panel in Three Modes

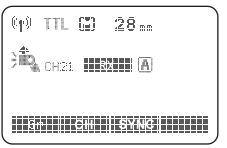
- Attached to the Camera



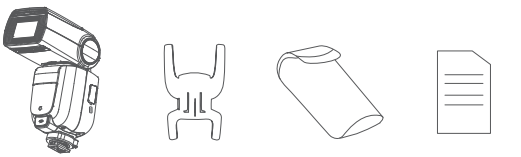
- R2 2.4GHz Radio Transmission: As a Transmitter Unit



- R2 2.4GHz Radio Transmission: As a Receiver Unit



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



1 Flash Unit

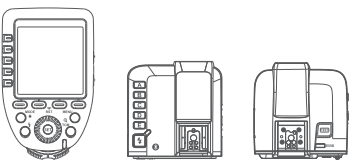
2 Mini Stand

3 Protection Case

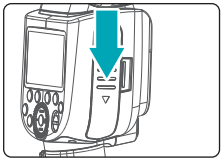
4 Instruction Manual

Separately Sold Accessories

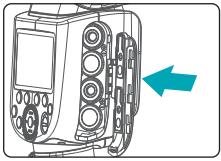
The product can be used in combination with the following accessories sold separately, for the best wireless remote control: Flashpoint R2ProO, R2T MarkII O, R2Pro Mark II O series triggers.



Loading and Unloading the Battery



1 Slide open the battery chamber cover, the cover of the press compartment and push downward. The cover lifts to reveal the battery placement chambers.



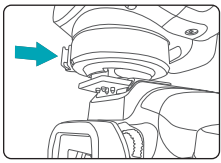
2 Put 4 batteries in with the correct polarity after opening the battery compartment. Close the chamber over the batteries. Slide the door upward until the lid locks.

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.

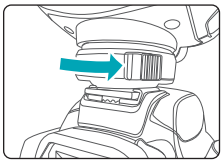
Plug the Flashpoint FP-CZ Cable for Canon carefully into the port, that comes with the Flashpoint Blast Power Pack PB-960 - SKU: FPPPBP960CA. Other external power sources may use a different cable. Replace the cover to the port after removing the cable.

Attaching to a Camera



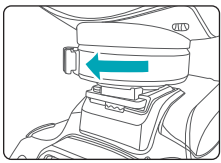
1 Attach the Camera Flash.

- Rotate the hotshoe lock lever to the left and insert the flash into the camera's hotshoe.



2 Secure the Camera Flash.

- Rotate the hotshoe lock lever to the right until it locks.



3 Detach the Camera Flash.

- Press the button and rotate the hotshoe to the left until it is unlocked. Carefully slide the flash out of the cameras hotshoe rails.

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 transmitter flash, it will turn the power off automatically after a approximately 90 seconds of idle use. Pressing the camera shutter halfway or pressing any flash button wakes 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 25)

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 25)

Flash Mode: TTL Autoflash

This flash has three flash modes: TTL, Manual (M), and Multi (Stroboscopic). In 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, FEL, HSS, second curtain sync, control with the Panasonic and Olympus camera menu screen.

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

TTL Mode

Press < MODE > Mode Selection Button to enter TTL mode. The LCD panel activates.

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

TCM: Preserving TTL Automation in Manual Settings

The Function Button 1 is active when the flash is in TTL Mode.

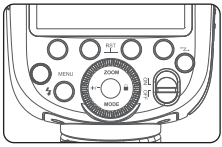
Select "TCM" for the 2 Way TTL to Manual settings and back again. TCM fusion overcomes the exposure fluctuations that may occur in TTL shooting by saving the successful exposure value to Manual settings for repeat capture accuracy. Changes in subjects under the same lighting conditions are nullified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

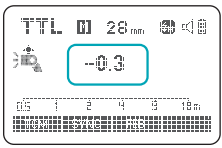
FEC: Flash Exposure Compensation

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:

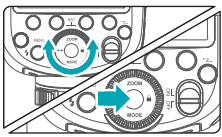


1 Press the < +/- > button. The flash exposure compensation amount will be highlighted on the LCD panel.



2 Set the flash exposure compensation amount.

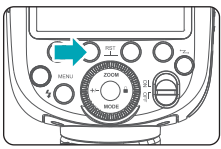
- Turn the Select Dial to set the amount.
- "0.3" means 1/3 stop. "0.7" means 2/3 stop.
- To cancel the flash exposure compensation, set the amount to "+0".



3 Press Set Button again to confirm the setting.

High-Speed Sync

High Speed Sync (HSS) 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 < H > is displayed.

2 Adjust the camera shutter speed to enjoy syncronization at any setting.

- Wireless remote R2 flash in HSS with Panasonic cameras may experience failure to sync issues.
- With high-speed sync, the faster the shutter speed, the shorter the effective flash range.
- To return to normal flash, press < SYNC > button again. < H > will disappear.
- Multi flash mode cannot be set in high-speed sync mode.
- Overheat protection may be activated after 15 consecutive high-speed sync flashes.

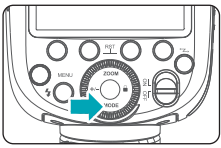
Second-Curtain Sync

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

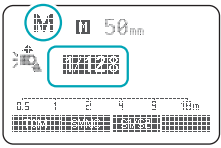
Choose REAR flash mode in the settings of the Panasonic and Olympus cameras.

M: Manual Flash

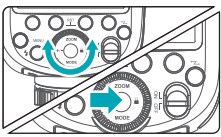
The flash output is adjustable from 1/1 full power to 1/256th power in 1/10th stop increments. To obtain a correct flash exposure, use a hand-held flash meter to determine the required flash output.



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



2 Press < +/- > to choose power, then 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 radio triggers. This helps create multiple lighting effects.

Optic S2 Secondary Unit Setting

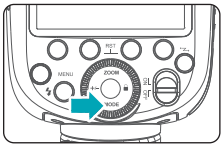
Press <S1/S2> button so that this flash can also function as an optic S2 secondary flash with optic sensor in M manual flash mode. This is useful when cameras have pre-flash function. With this function, the flash will ignore a single "preflash" from the main flash and will only fire in response to the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

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

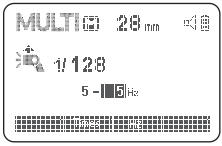
Multi: Stroboscopic Flash

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.

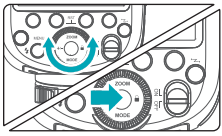


1 Press < MODE > button so that < MULTI > is displayed.



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 must remain open until the shutter closes. 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	90	90	90	90	90	90	80
1/256	90	90	90	90	90	90	80

Flash output \ Hz	10	20-50	60-100
1/4	2	2	2
1/8	4	4	4
1/16	8	8	8
1/32	20	16	12
1/64	50	30	20
1/128	70	40	40
1/256	70	40	40

Wireless Flash Shooting: R2 Radio 2.4GHz Transmission

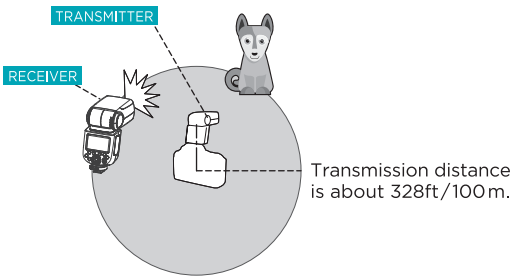
- The Zoom II AA used on a camera is called the transmitter unit, and a Zoom II AA that is wirelessly controlled is called the receiver unit.
- You can also wirelessly control the Zoom II AA set as the receiver unit with the transmitter Flashpoint R2 Mark II TTL O (sold separately). For details on setting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

Using a flash (transmitter/receiver) with R2 radio transmission wireless is as easy to shoot with advanced wireless multiple flash lighting, on-camera as TTL autoflash shooting.

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

Positioning and Operation Range (Example of wireless flash shooting)

- Autoflash Shooting with One Receiver Unit

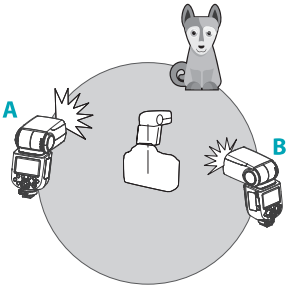


- Use the supplied mini stand to position the Receiver unit.
- Before shooting, perform a test flash and test shooting.
- The transmission distance might be shorter depending on the conditions such as positioning of Receiver units, the surrounding environment and weather conditions.

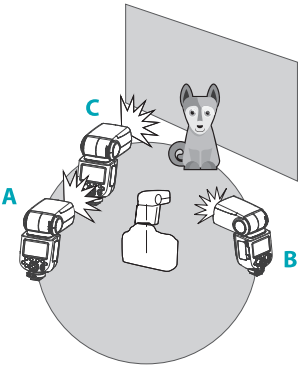
Wireless Multiple Flash Shooting

You can divide the Receiver units into two or three groups and perform TTL 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



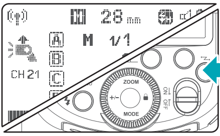
- Auto Shooting with Three Receiver Groups



1. Wireless Settings

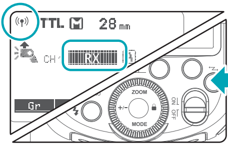
You can switch between normal flash and wireless flash. For normal flash shooting, be sure to set the wireless setting to OFF.

Transmitter Unit Setting



Press < > button so that < > is displayed on the LCD panel.

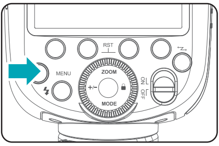
Receiver Unit Setting



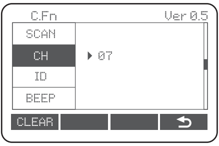
Press < > button so that < > or < RX > are displayed on the LCD panel.

2. Setting the Communication Channel

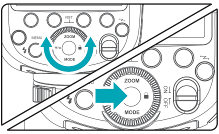
If there are other wireless flash systems nearby, you can change the channel to prevent signal interference. The channel setting of the Transmitter unit and the Receiver unit(s) must be set to the same value.



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



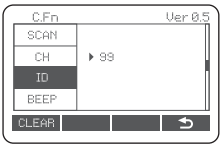
2 In C.Fn CH, turn the Select Dial to choose channel from 1 to 32.



3 Press the Set Button to confirm.

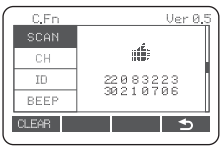
3. Wireless ID Settings

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 value. 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.



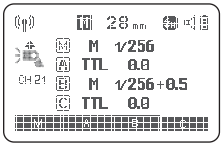
4. Scan 2.4GHz for the Strongest Channels

To avoid the interference of using the same channel by others, enter the C.Fn settings and find the SCAN option. Choose START to begin the search for the optimum the 8 channels will be displayed after the scan is completed.



5. TTL :
Fully Automatic Wireless Flash Shooting

Using Automatic Wireless Flash with a Single Receiver Unit.



1 Transmitter Unit Setting.

- Attach a Zoom II AA O camera flash on the camera and set it as the Transmitter unit. Group M/A/B/C can be set as TTL respectively.

2 Receiver Unit Setting.

- Set wireless controlled Zoom II AA O as the wireless Receiver Unit. (Page 17)

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 17)

4 Position the camera and flashes.

- Position the camera and flashes as the picture shows. (Page 20)

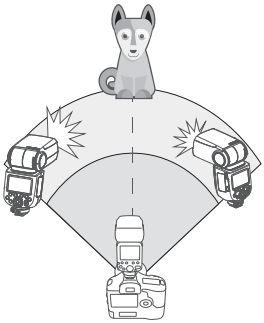
5 Check that the flash is ready.

- Check that the Transmitter flash ready indicator is lightened.

6 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 Group. 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 at the same flash output and ensure the total flash output up is to the desired exposure.

- If the Receiver unit's auto power off function is enabled and the device is in sleep mode, press the Transmitter unit's test button to wake it. Please note that test firing is unavailable during camera operation.
- The programmed time of Receiver auto power off is changeable. (C.Fn-RX STBY Page 25)
- The Auto AF assist beam can be set not to project through the Custom Function AF. (C.Fn AF Page 25)

6. Using Fully Automatic Wireless Flash

The Transmitter unit sends the settings to on the Receiver unit automatically. The Receiver unit does not need any user intervention for matching the R2 transmission settings. Proceed as normal.

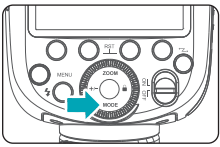
- Flash Exposure Compensation (Page 11)

Multiple Transmitters

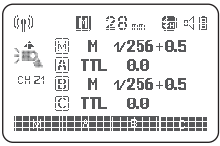
Two or more transmitters of differeing camera systems can operate on the same Channel and ID value. The Receiver device, flash or R2 attachment, will automatically sense the signal for each as the command reaches the Receiver and match the settings from each Transmitter!

7. M:
Wireless Flash Shooting with Manual Flash

Three additional Groups can be set from the flash in Manual R2 Mode. You can shoot with a different flash output setting for each Receiver unit. Set all parameters on the Transmitter unit.

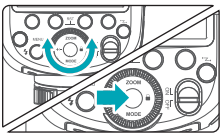


1 Setting the flash mode to < M >.



2 Setting flash output.

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

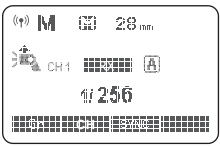


3 Taking the picture.

- Each group fires at the set flash values.

Setting < M > Flash Mode

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

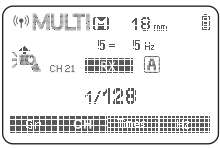


1 Set the Wireless to RX Mode as a Receiver unit.

2 Set flash mode to < M >.

- Press < MODE > button so that < M > is displayed.
- Set the manual flash output. (Page 12)

8. Multi:
Wireless Flash Shooting with Manual Flash



1 Set the Wireless to MULTI Mode < MULTI > stroboscopic flash.

- Press <MODE> button so that <MULTI> is displayed.
- Set the Times and Rate for the stroboscopic flash. (Page 13)

⚠ 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 in conflict or turn off the other devices that are causing the issues.

2. Make sure that the flash has finished its recycle or caught up with the continuous shooting speed or the flash is not a state of over-heat protection.

→ Lower the flash power output. If the flash is in TTL mode change it to M mode TTL preflash places more demands on the power recycle of the flash and may slow the response time.

3. The distance between the flash trigger and the flash is too close. (2.6ft/0.5m)

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

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

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

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

→ Replace the battery in the flash trigger with disposible alkaline cells only, for the best perfomance.

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.

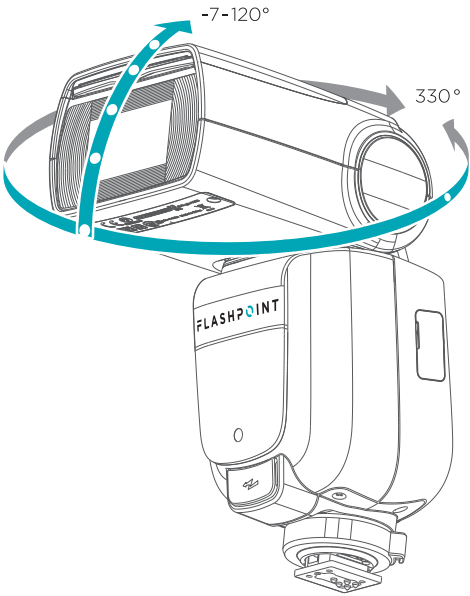
- If you find the auto focus assist beam does not light up, this is because the camera has got a correct autofocus.

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

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.

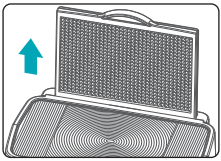
TCM: Preserving TTL Automation in Manual Settings

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 and the Manual Mode. Push again to revert to the TTL Mode and the original TTL settings.

Creating a Catchlight

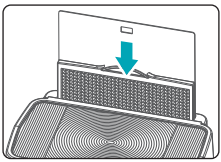
With the catchlight panel, you can create a catchlight in the subject's eyes to add life to the facial expression.



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.

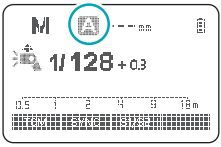
- Push in only the wide panel.
- Follow the same procedures as for bounce flash.

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

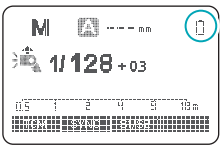
The flash coverage can be set automatically or manually. It can be set to match the lens focal length from 20mm to 200mm.



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 batter immediately.

C.Fn: Setting Custom Functions

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

Custom Function Signs	Function	Setting No.	Settings & Description
m/ft	Distance indicator	m	m
		ft	feet
ZOOM	ZOOM display format	4/3	4/3 system
		135	135 system
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 clearest 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	Recycle Audio Tone	ON	Recycle Audio Signal 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
TX DIST	Firing distance	1-325ft/1-100m	1-325ft/1-100m range
		0-100ft/0-30m	0-100ft/0-30m range

1. Press < MENU > Button until C.Fn menu is displayed. The "Ver x.x" in the top-right corner refers to the software firmware version.
2. Select the Custom Function number.
   - Turn the Select Dial to select the Custom Function number.
3. Change the Setting.
   - Press Set Button and the Setting number. 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 and camera is ready to shoot.
4. To reset the Custom Functions for original settings, go to C.Fn, long press the "Clear" button for 2 seconds until "OK" is displayed on the panel.

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 overheat 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
1/256	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. 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 Panasonic and Olympus
Compatible Cameras	Panasonic and Olympus single-lens mirrorless cameras
Guide No. (1/1 output, 200mm)	GN 196ft / 60m @100ISO(200mm)
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	TTL autoflash and manual flash
Flash exposure compensation (FEC)	Manual. FEB: ±3 stops in 1/3 stop increments (Manual FEC and FEB can be combined.)
Sync mode	High-speed sync (up to 1/8000 seconds), first-curtain sync, and second-curtain sync
Multi flash	Provided (up to 90 times, 100Hz)
• Wireless Flash (2.4G Radio Transmission)	
Wireless flash function	Transmitter, Receiver, Off
Transmitter groups	M, A, B, C
Controllable Receiver groups	A, B, C, D, E (E group can be controlled by R2 series flash triggers.)
Transmission range (approx.)	325ft/100m
Channels	32 (1-32)
ID	01-99
• 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 batteries
Recycle time	0.1-2.6s (Rechargeable Ni-MH Battery)
Full power flashes	About 290 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
Working temperature	14°F-122°F / -10°C-50°C
• Dimensions	
W x H x D	2.5 x 3.0 x 7.4in / 64 x 76 x 190mm
Weight without battery	14.3oz / 405g
Weight with battery	16.9oz / 480g
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.

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.

- 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 TTL 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 by connecting the flash to a computer and using the Flashpoint F3 Software App.
- Download and install the latest Flashpoint F3 Firmware Update Software from the web site before attempting to update the flash. Follow the online instructions carefully.

Compatible Camera Models

This flash unit can be used on the following Panasonic and Olympus series camera models:

Olympus: E-M1 | PEN-F | E-M10II | E-PL8 | E-P5 | E-M10III

Panasonic: GH4 | LX100 | DMC-GF1 | DMC-G85 | DMC-GX85 | DMC-LX100 | DMC-FZ2500GK | S1

- This table only lists the tested camera models, not all Panasonic and Olympus 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.
- 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 for example, flashtubes 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.

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