





# FLASHPOINT



## ZOOM LI-ON TTL COMPACT V480



ON CAMERA FLASH

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## About This Instruction Manual

- This manual is based on the assumption that both the camera and camera flash's power switches are turned on.
- 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.

# Important Safety Instructions

This product is a professional photographic equipment, to be operated by professional personnel only.

All transport protective materials and packaging on the product must be removed before use.

The following basic safety precautions must be followed when using this product:

1. Carefully read and fully understand the instruction manual before use and strictly follow the safety instructions. Failure to do so may result in serious injury, damage to the product, or other property damage.
2. This product is a professional lighting fixture, children are prohibited from using it. Children must be closely supervised by adults when approaching the fixture, to prevent collisions with the fixture or unauthorized use that could cause personal injury.
3. This is not an ordinary lighting fixture and must not be used for general illumination. Anyone with a history of eye damage or sensitivity should avoid using this fixture or looking directly at it.
4. Extreme caution must be exercised when using it, do not touch high-temperature parts such as flash tubes to avoid burns.
5. Do not point the flash directly at the eyes (especially baby's eyes) under any circumstances, as this could impair vision in a short time. Turn off immediately if discomfort occurs, stop using, and seek medical attention promptly.
6. If the flash tube is damaged, stop using it immediately and contact the manufacturer, service agent, or qualified repair personnel for a replacement to prevent accidents.
7. Stop using immediately if the product shell is cracked due to falling, squeezing, or strong impact, to avoid touching the internal electronic components and getting an electric shock.
8. This device is not waterproof. Keep it dry and avoid immersing it in water or other liquids. It should be installed in a ventilated and dry location and avoid using in rainy, humid, dusty, or overheated environments. Do not place items above the device or allow liquids to flow into it to prevent danger.
9. Do not disassemble without authorization. If the product malfunctions, it must be inspected and repaired by our company or authorized repair personnel.
10. Before storing the device, make sure it is completely cooled.
11. Do not place the device near alcohol, gasoline, or other flammable volatile solvents or gases such as methane and ethane.
12. Do not use or store this device in potentially explosive environments.
13. Maintain at least 1 meter distance between the lamp head and the user, other people, and heat-sensitive or flammable items during and after use.



14. Do not use accessories not been approved by our company, as this may cause fire, electric shock or personal injury.
15. Clean gently with a dry cloth. Do not use a wet cloth as it may damage the device.
16. This instruction manual is based on rigorous testing. Changes in design and specifications are subject to change without notice. Check official website for latest instruction manual and product updates.
17. This product is powered by lithium batteries, who have limited lifespans and will gradually lose their charging capacities, which is irreversible. As the battery ages, the product's battery life will decrease. The lifespan of lithium battery is estimated to be 2 to 3 years. Please regularly check the battery, and if the charging time significantly increases or the battery life significantly decreases, consider replacing the battery.
18. This product is equipped with lithium batteries. The following are the storage recommendations: Charge the battery to about 50% before storage. Charge it to about 50% at least every six months. Removable batteries should be stored separately. The storage temperature should be between 0°C and 40°C.
19. Precautions for using lithium batteries:
  - Do not disassemble, crush, or puncture the battery.
  - The battery is not waterproof, do not immerse it in fog or water.
  - Avoid short-circuiting the battery contacts.
  - Do not expose the battery to or put it into fire.
  - Do not expose the battery to temperatures above 60°C.
  - Keep out of reach of children.
  - Protect the battery from excessive shock or vibration.
  - Do not use a damaged battery.
  - If the battery leaks, avoid contact with the leaking fluid.
  - If the battery fluid comes into contact with your eyes, immediately rinse with water for at least 15 minutes. Lift your eyelids until there are no signs of fluid and seek medical attention promptly.
20. Confirm and comply with all relevant local laws and regulations when handling any batteries.
21. The warranty period for this device as a whole is one year. Consumables (such as batteries), adapters, power cords, and other accessories are not covered by the warranty.
22. Unauthorized repairs will void the warranty and will incur charges.
23. Please check the status and power of the lithium battery upon receipt. If there are any quality issues, please contact Flashpoint or our authorized dealer within the warranty period.
24. Failures from improper operation is not covered under warranty.

# Foreword

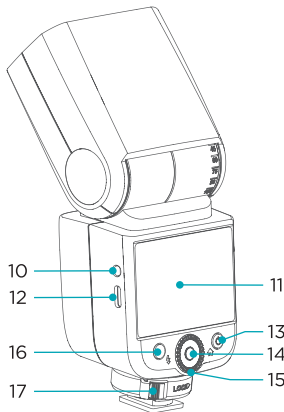
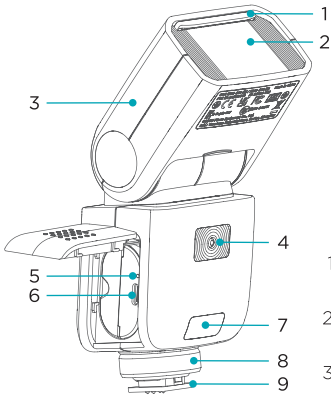
Thank You for Choosing **FLASHPOINT!**

**TTL Li-ion camera flash V480** is perfect for TTL auto flash with its excellent compatibility, you can enjoy unprecedented shooting convenience even with frequent changes in lighting conditions. Its main features include:

- **Quick Operations:** 2" touch screen together with traditional buttons to achieve clear and easy operations.
- **LED Modeling Lamp:** Built-in LED modeling lamp with adjustable brightness (01-10) to preview light effects conveniently.
- **TTL Compatibility:** Perfectly supports TTL auto flash to simplify the shooting procedure.
- **Wireless Control Ability:** 2.4G wireless flash triggering extends more shooting possibilities.
- **Professional Functions:** Supports manual flash, Multi flash, high-speed sync, second-curtain sync, FEC, etc.
- **Effective Power Supply:** 7.2V/2200mAh lithium battery provides 650 flashes and 1.7s recycle time at full power.
- **Stable Continuous Shooting:** The output color and brightness remain consistent even in high-speed continuous shooting.
- **Firmware Upgrade:** Firmware is updated regularly to be compatible with the latest camera models and ensure optimal performance.
- **Camera Compatibility:** V480 C is compatible with Canon cameras. V480 S is compatible with Sony cameras. V480 N is compatible with Nikon cameras.

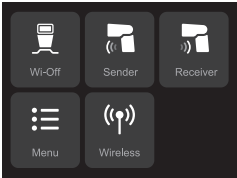
# Name of Parts

## Body

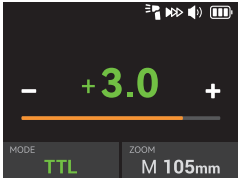


1. Catchlight Panel (white)
2. Built-in Wide-angle Diffuser (transparent)
3. Flash Head
4. LED Modeling Lamp
5. Battery Charging Indicator (red in charging, green in fully charged)
6. USB Type-C Charging Port (for charging the battery)
7. Photocell Sensor
8. Lock Ring
9. Hot Shoe
10. Sync Cord Jack
11. Touch Screen
12. USB-C Firmware Upgrade Port (for upgrading the firmware)
13. Power Switch Button (Short press once to enter mode / return interface, press twice to enter other functions interface)
14. Set Button
15. Select Dial
16. Test Button / Recycle Indicator
17. Hot Shoe Fixing Buckle

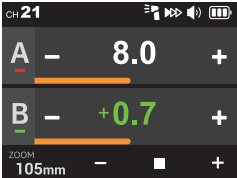
# 2" Touch Screen Panel



Mode Interface

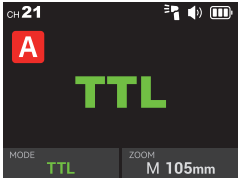


Wi-Off Mode

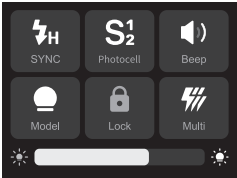


Sender Mode

(This interface takes V480 C as an example, other models interfaces may differ)

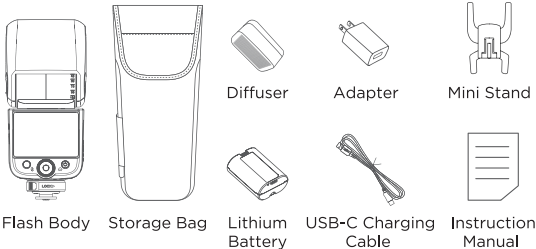


Receiver Mode



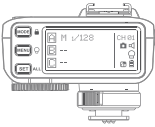
Other Functions

## What's Inside



## Separately Sold Accessories

The product can be used in combination with the following accessories sold separately, so as to achieve the best photography effects:



Flash Trigger  
R2 Mark II Series



Flash Trigger  
R2 XPro II Series

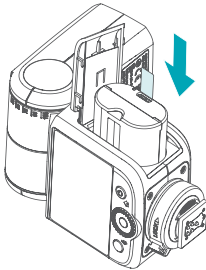


Flash Trigger  
R2 nano Series

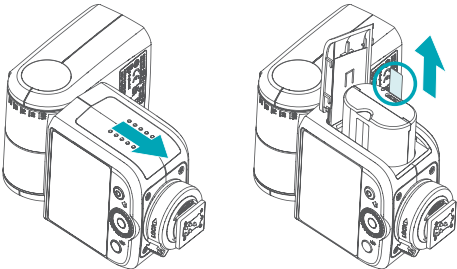
**Note:** Please purchase the correct accessories according to your flash models.

## Installing/Disassembling Battery

**Installing the battery:** Insert the battery into the battery compartment in the direction as referred below until it's firmly locked, then close the lid.



**Disassembling the battery:** Slide the battery compartment lid in the direction as referred below, then pull the battery out of the battery compartment.



## Battery Level Indication

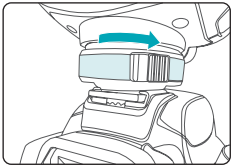
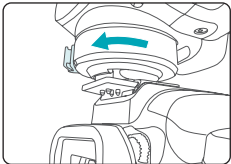
Make sure the battery pack is securely loaded in the flash. Check the battery level indication on the LCD panel to see the remaining battery level.

Battery Level Indication	Meaning
3 grids	Full
2 grids	Middle
1 grid	Low
Blank grid	Lower battery, please recharge it.
No battery alert blinking	The battery level is going to be used out, and the flash is not functional in this status. <b>Note:</b> Please recharge the battery as soon as possible (within 10 days). Then, the battery can be used or be placed for long period.

## Installing/Disassembling the Camera Flash

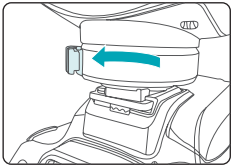
### Installing the camera flash:

Rotate the hot shoe fixing buckle and rotate it to the left, insert the camera flash into the camera's hot shoe. Then rotate it to the right until it locks up.



### Disassembling the camera flash:

Press and rotate the hot shoe fixing buckle to the left until it is loosened, then take off the camera flash.

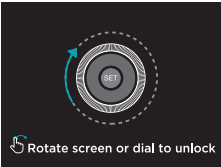


Be sure to power off the camera and flash when installing and disassembling the flash to prevent damage to the devices.

# Power Management

**Power On:** Long press the power switch button until the **< SET >** icon appears on the panel, then slide the screen or rotate the select dial in the direction showed on the panel to turn it on.

**Note:** The screen backlight automatically turns dark after 15 seconds of no operation in power-on status, and it can be lit up by touching.



**Standby:** Setting as wi-off/sender mode when the standby function is on, the flash will enter standby mode automatically after a certain period (approx. 90 seconds) of idle use. Press the camera shutter halfway or press any button will wake up the flash unit.

## Auto Off:

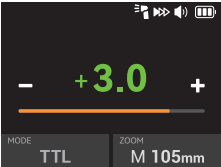
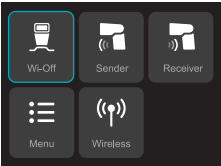
Setting as wi-off/sender mode when the auto off function is on, the flash will automatically shut down after 60 minutes (or 30 minutes, 90 minutes) of idle use.

Setting as receiver mode and the auto off function is on, the flash will automatically shut down after 60 minutes (or 30 minutes, 90 minutes) of idle use. The auto off function can be turned off manually when using off-camera as a receiver unit.

# Wi-Off Mode

**Touch Screen:** Slide the screen from the left to the right to make the mode interface appears, click the **"Wi-Off"** icon to enter Wi-Off mode.

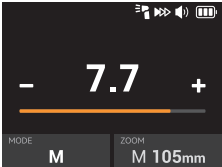
**Buttons and Select Dial:** Press the power switch button to make the mode interface appears, rotate the select dial and press the set button to choose and enter Wi-Off mode.



# M: Manual Flash

The flash output is adjustable from 1/1 to 1/256 or from 2.0 to 10 with 0.1 or 0.3 increment each step. To obtain a correct flash exposure, use a hand-held flash meter to determine the required flash output.

**Touch Screen:** Click the **"MODE"** icon to switch to M mode, press the **"-"** or **"+"** icon to adjust the power with  $\pm 0.1$  or  $\pm 0.3$  increment each step, or directly pull the progress bar to achieve quick adjustment.



## Buttons and Select Dial:

Rotate the select dial and press the set button to choose **"MODE"** icon, then rotate and press again to choose **"M"**. Rotate up to choose the power value, then rotate and press again to adjust power with  $\pm 0.1$  or  $\pm 0.3$  increment each step, quick adjustment is also available by fast rotation.

## S1 Photocell Unit Setting

In M manual flash mode, 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 wireless triggers. This helps create multiple lighting effects.

## S2 Photocell Unit Setting

In M manual flash mode, this flash can also function as an optic S2 secondary flash with optic sensor. This is useful when cameras have pre-flash function. With this function, the flash will ignore a single **"pre-flash"** from the main flash and will only fire in response to the second, actual flash from the main flash.



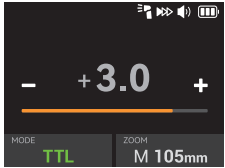
- S1 and S2 Photocell triggering is only available in M manual flash mode.
- Enter menu setting to switch between S1/S2 Photocell or turn off this function.



## TTL: TTL Auto Flash

In TTL mode, the camera's metering system detects the flash reflected from the subject and automatically adjusts the flash output so that the subject and background are evenly exposed.

**Touch Screen:** Click the **"MODE"** icon to switch to TTL mode, press the **"-"** or **"+"** icon to adjust the FEC amount among  $\pm 3$  with  $\pm 1/3$  increment each step, or directly pull the progress bar to achieve quick adjustment.



**Buttons and Select Dial:** Rotate the select dial and press the set button to choose **"MODE"** icon, then rotate and press again to choose **"TTL"**. Rotate up to choose the FEC amount, then rotate and press again to adjust the FEC amount among  $\pm 3$  with  $\pm 1/3$  increment each step, quick adjustment is also available by fast rotation.

- Press the camera shutter halfway to focus. The effective flash range will be displayed in the LCD panel.

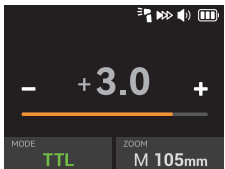
## ZOOM: Setting the Flash Coverage

The flash coverage can be set automatically or manually. In auto zoom mode, the focal length changes in response to the camera's zoom lens to provide optimal flash results.

**Auto Zoom Mode:** A-mm, and the flash coverage will be set automatically.

**Manual Zoom Mode:** 24mm - 105mm.

**Touch Screen:** Click the **"ZOOM"** icon to switch between auto zoom (A--mm) mode or manual zoom mode.



**Buttons and Select Dial:** Rotate the select dial and press the set button to choose **"ZOOM"** icon, then rotate and press again to choose the needed zoom mode.



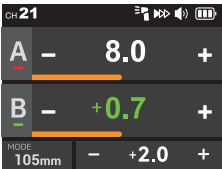
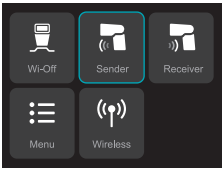
If you set the flash coverage manually, make sure it covers the lens focal length so that the picture will not have a dark periphery.

# Sender Mode

**Touch Screen:** Slide the screen from the left to the right to make the mode interface appears, click the **"Sender"** icon to enter sender mode, slide upward can check more groups.

**Buttons and Select Dial:** Press the power switch button to make the mode interface appears, rotate the select dial and press the set button to choose and enter sender mode, rotate the select dial can check more groups.

The wireless is turned on by default in sender mode.



(This interface takes V480 C as an example, other models interfaces may differ)

## Group

**Five groups:** A, B, C, D, E (V480 C)  
M, A, B, C, D (480 S / V480 N)

## M: Manual Flash - Flash Power

**Touch Screen:** Press and hold the group box to switch among M (manual) flash, TTL auto flash and OFF. If the value inside is in white color, this group is in M (manual) flash mode. The flash power is adjustable by clicking the **"-"** or **"+"** icon, or quickly adjustable by pulling the progress bar.

**Buttons and Select Dial:** Rotate the select dial and press the set button to choose and enter a certain group, press and hold the set button to switch among M (manual) flash, TTL auto flash and OFF. If the value inside is in white color, this group is in M (manual) flash mode. The flash power is adjustable by rotating the select dial, then press the set button to exit.

# TTL Auto Flash - Flash Exposure Compensation Amount

**Touch Screen:** Press and hold the group box to switch among M (manual) flash, TTL auto flash and OFF. If the value inside is in green color, this group is in TTL auto flash mode. The flash compensation amount is adjustable by clicking the **"-"** or **"+"** icon, or quickly adjustable by pulling the progress bar.

**Buttons and Select Dial:** Rotate the select dial and press the set button to choose and enter a certain group, press and hold the set button to switch among M (manual) flash, TTL auto flash and OFF. If the value inside is in green color, this group is in TTL auto flash mode. The flash compensation amount is adjustable by rotating the select dial, then press the set button to exit.

## Adjust the Parameters Uniformly

**Touch Screen:** Click the **"-"** or **"+"** icon can increase or decrease the flash power or FEC amount uniformly.

**Buttons and Select Dial:** Rotate the select dial and press the set button to choose and enter a certain group, press the set button to enter uniform adjustment and rotate the select dial to increase or decrease the flash power or FEC amount uniformly, then press the set button to exit.

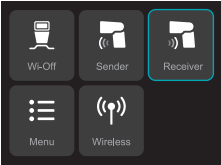
## ZOOM: Setting the Flash Coverage

You can choose auto zoom mode or manual zoom mode (24mm-105mm). The details of which please refer to the ZOOM section in the Wi-Off mode above.

# Receiver Mode

**Touch Screen:** Slide the screen from the left to the right to make the mode interface appears, click the **"Receiver"** icon to enter receiver mode.

**Buttons and Select Dial:** Press the power switch button to make the mode interface appears, rotate the select dial and press the set button to choose and enter receiver mode.



The wireless is turned on by default in receiver mode.

## Group

**Five receiver groups:** A, B, C, D, E


**Touch Screen:** Click the group icon to switch groups.

**Buttons and Select Dial:** Rotate the select dial to choose the group icon, then press the set button to enter group settings and rotate the select dial to switch groups, finally press the set button again to exit.

## TTL: TTL Auto Flash

**Touch Screen:** Click the **"MODE"** icon to switch to TTL mode.


**Buttons and Select Dial:** Rotate the select dial to choose the **"MODE"** icon, then press the set button to enter MODE settings and rotate the select dial to switch to TTL mode, finally press the set button again to exit.

 • The details of which please refer to the section Wi-Off mode → TTL auto flash above.

## M: Manual Flash

**Touch Screen:** Click the **"MODE"** icon to switch to M mode.

**Buttons and Select Dial:** Rotate the select dial to choose the **"MODE"** icon, then press the set button to enter MODE settings and rotate the select dial to switch to M mode, finally press the set button again to exit.

 • The details of which please refer to the section Wi-Off mode → M: manual flash above.

## Flash Power Settings

The flash power adjustable from 1/256 to 1/1 or from 2.0 to 10 when choosing M (flash) mode.

**Touch Screen:** The flash power is adjustable by clicking the "-" or "+" icon, or quickly adjustable by pulling the progress bar.

**Buttons and Select Dial:** Rotate the select dial to choose the flash power box, press the set button to enter flash power settings and rotate the select dial to adjust, finally press the set button again to exit.

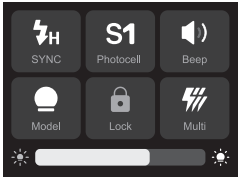
## ZOOM: Setting the Flash Coverage

You can choose auto zoom mode or manual zoom mode (24mm-105mm). The details of which please refer to the ZOOM section in the Wi-Off mode above.

## Other Functions

**Touch Screen:** When in Wi-Off / Sender / Receiver mode, slide the screen down to make other functions appear, slide up to return to the main interface.

**Buttons and Select Dial:** When in Wi-Off / Sender / Receiver mode, short press the power switch button twice to make other functions appear, press it again to return to the main interface.



## Sync Mode

### 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.

### Second-Curtain Sync

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

**Touch Screen:** Click the **"SYNC"** icon to switch sync mode.

**Buttons and Select Dial:** Rotate the select dial to choose **"SYNC"** icon, then press the set button to switch sync mode.

## Photocell

**Touch Screen:** Click the **"Photocell"** icon to switch among OFF, S1 or S2.

**Buttons and Select Dial:** Rotate the select dial to choose **"Photocell"** icon, then press the set button to switch among OFF, S1 or S2.



• The details of which please refer to the M: manual flash section in the Wi-Off mode above.

### Beep

The flash will fire with a prompt tone if the beep is turned on.

**Touch Screen:** Click the **"Beep"** icon to turn on or off the beep.

**Buttons and Select Dial:** Rotate the select dial to choose **"Beep"** icon, then press the set button to turn on or off the beep.

### Modeling Lamp

**Touch Screen:** Click the **"Model"** icon to turn on or off the modeling lamp. The brightness of it is adjustable from 1 to 10 by pulling the progress bar down when it's turned on.

**Buttons and Select Dial:** Rotate the select dial to choose **"Model"** icon, then press the set button turn on or off the modeling lamp. When the modeling lamp is on, its brightness is adjustable from 1 to 10 by rotating the select dial and pressing the set button after selecting the progress bar down, then press the set button again to exit.

## Screen Lock

**Touch Screen:** Click the **"Lock"** icon to turn on the screen lock, press and hold for 2s to unlock.

**Buttons and Select Dial:** Rotate the select dial to choose **"Lock"** icon, then press the set button to turn on the screen lock, press and hold for 2s to unlock.

## Multi Flash

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

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

**Flash output range:** 1/256-1/4 or 2.0-8.0.

**Number of flashes:** 1-100

**Flash frequency:** 1-100

**ZOOM range:** auto zoom or manual zoom.

**Touch Screen:** Click the **"Multi"** icon to turn on or off the multi flash. When the multi flash is turned on, slide the screen up can adjust the parameters. Slide the number in front of **"Times"** can adjust the number of flashes, slide number in front of **"Hz"** can adjust the flash frequency, click the **"-"** or **"+"** icon can adjust the flash power, press the **"ZOOM"** icon down to enter the ZOOM setting interface and choose auto zoom or manual zoom, then adjust the ZOOM value. Finally press the return icon to back to the multi flash interface.


**Buttons and Select Dial:** Rotate the select dial to choose **"Multi"** icon, then press the set button to turn on or off the multi flash. When the multi flash is turned on, press the power switch button to make the parameters interface appears, then the flash power, number of flashes, flash frequency and ZOOM value are all adjustable by rotating the select dial, finally press the set button again to exit.


# Calculating the Shutter Speed

During multi 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 flash frequency is 5Hz, the shutter speed should be at least 2 seconds.

 To avoid overheating and deteriorating the flash head, do not use multi 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 multi 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.

-  Multi flash is most effective with a highly reflective subject against a dark background.
- Using a tripod and TTL flash trigger R2 XPro II is recommended.
- A flash output of 1/1 and 1/2 cannot be set for multi flash.
- Multi flash can also be used with **"BULB"** mode.
- Multi flash mode cannot be set in high-speed sync mode.
- Please turn off the multi flash when not using, otherwise TTL flash and M flash are not available.



# Maximum Time of Consecutive Flashes:

Flash Frequency (Hz) Number of Flashes Flash Output	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 Frequency (Hz) Number of Flashes Flash Output	10	11	12-14	15-19	20-50	60-100
1/4	2	2	2	2	2	2
1/8	4	4	4	4	4	4
1/16	10	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 Settings

**Touch Screen:** Slide the screen from the left to the right to make the mode interface appears, click the **"Wireless"** icon to enter wireless mode. Then slide from the left to the right to return to the main interface.

Channel	ID
28	28
29	29
30	30
SCAN	SYNC

**Buttons and Select Dial:** Press the power switch button to make the mode interface appears, rotate the select dial and press the set button to choose and enter wireless mode. Short press the power switch button to return to the main interface.

## Scan the Spare Channel

You can scan the spare channel to avoid the interference of using the same channel by others.

**Touch Screen:** Click the **"SCAN"** icon to start scanning, and the 8 spare channels will be displayed, click your desired channel.

**Buttons and Select Dial:** Rotate the select dial to choose **"SCAN"** icon, then press the set button to start scanning, and the 8 spare channels will be displayed, rotate the select dial and press the set button to choose your desired channel.

## Channel Settings

If there are other wireless flash systems nearby, you can change the wireless channels to prevent signal interference. The wireless channels (01 - 32) of the sender unit and the receiver unit(s) must be set to the same.

**Touch Screen:** Slide the **"Channel"** box to choose your desired channel.

**Buttons and Select Dial:** Rotate the select dial to choose **"Channel"** box, then press the set button to enter channel settings, rotate the select dial and press the set button to choose your desired channel, finally press the set button to exit.

## ID Settings

Change the wireless ID to avoid interference for it can only be triggered after the wireless IDs (OFF/01-99) of the sender unit and the receiver unit are set to the same.

**Touch Screen:** Slide the **"ID"** box to turn off the ID, or choose your desired ID.

**Buttons and Select Dial:** Rotate the select dial to choose **"ID"** box, then press the set button to enter ID settings, rotate the select dial and press the set button to choose your desired ID, finally press the set button to exit.

## Wireless Sync

The wireless sync function helps the sender and receiver to quickly set the same channel and ID.

### Receiver Wireless Sync

#### Preconditions:

1. Set V480 to sender mode and the **"Sender"** icon on the panel is yellow.
2. Assume retro camera flash Lux Master as the receiver.

**Touch Screen:** Click the **"SYNC"** icon on both V480 and Lux Master.

**Buttons and Select Dial:** Rotate the select dial on V480 to choose **"SYNC"** icon, then press the set button. Rotate the select dial on Lux Master to choose **"SYNC"** icon, then press the SET button.

### Sender Wireless Sync

#### Preconditions:

1. Set V480 to receiver mode and the **"Receiver"** icon on the panel is yellow.
2. Assume flash trigger R2 nano as the sender.

**Touch Screen:** Click the **"SYNC"** icon on both V480 and R2 nano.

**Buttons and Select Dial:** Rotate the select dial on V480 to choose **"SYNC"** icon, then press the set button. Rotate the select dial on R2 nano to choose **"SYNC"** icon, then press the select dial.













When the sender unit and receiver unit are both V480, wireless sync is also available.

## Menu

**Touch Screen:** Slide the screen from the left to the right to make the mode interface appears, click the **"Menu"** icon to enter the menu interface. Then slide from the left to the right to return to the main interface.

**Buttons and Select Dial:** Press the power switch button to make the mode interface appears, rotate the select dial and press the set button to choose and enter the menu interface. Short press the power switch button to return to the main interface.

Due to the difference in the menu order of different models, the specific menu ordering is subject to the actual product models, the following only explains the menu functions.

Icon	Function	Options	Description
	Sender Flash (only available in V480 C)	Off	Sender flash off
		On	Sender flash on
	Power Type	1/256	0.1
			0.3
		2.0	0.1
			0.3
	TCM	On	Flash value of TTL mode can be converted to the power value of M mode.
		Off	Turn off this function.
	m/ft	m	Meter
		ft	Feet
	Standby	On	Automatically standby after the set time (90 seconds) of idle use.
		Off	Do not automatically standby after the set time (90 seconds) of idle use.
	Auto Off	Off	Turn off auto power off function.
		30 min	1. Setting as wi-off/sender mode when the standby function is off, the flash will automatically shut down after 30 minutes of idle use.
			2. Setting as receiver mode, the flash will automatically shut down after 30 minutes of idle use.
		60 min	1. Setting as wi-off/sender mode when the standby function is off, the flash will automatically shut down after 60 minutes of idle use.
			2. Setting as receiver mode, the flash will automatically shut down after 60 minutes of idle use.
		90 min	1. Setting as wi-off/sender mode when the standby function is off, the flash will automatically shut down after 90 minutes of idle use.
			2. Setting as receiver mode, the flash will automatically shut down after 90 minutes of idle use.
	Model	Continue	The modeling lamp is constant on when flashing.
		Interrupt	The modeling lamp automatically turns off when flashing.
	Screen	/	Screen brightness is steplessly adjustable.
		30 sec	Screen standby after 30 seconds of idle use.
		1 min	Screen standby after 1 minute of idle use.
		2 min	Screen standby after 2 minute of idle use.
		3 min	Screen standby after 3 minute of idle use.
	New Agreement (only available in V480 S)	On	The new agreement is turned on by default.
		Off	Turn off the new agreement in case of incompatibility of flash and camera.
	Language	Simplified Chinese	Simplified Chinese system
		English	English system
	Factory Reset	Cancel	Cancel factory reset
		Apply	Factory reset
	Device Info	/	Display the device model and firmware version.

# Wireless Flash Shooting (2.4G Wireless Transmission)

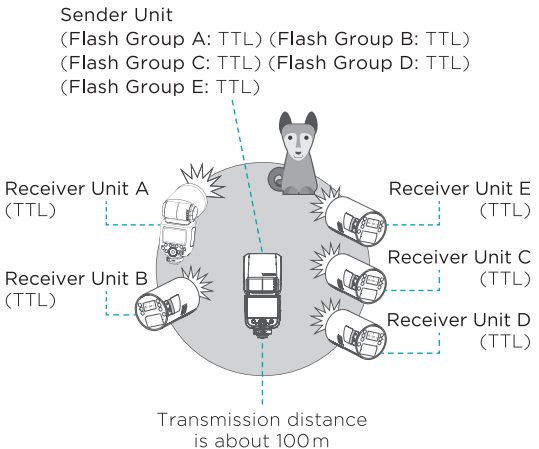
This chapter mainly explains how to perform wireless multiple shooting with 2.4G wireless transmission by using V480 as the sender unit (refer to as **"sender unit"** below) and Flashpoint flashes with 2.4G wireless receiving function such as V480, Xplor 100Pro or X100 as the receiver unit (refer to as **"receiver unit"** below).

- ⚠ • The channel, group, and ID of the sender and receiver units should be set to the same, details of which please refer to the wireless settings section above.
- This chapter takes V480 C as an example, operations of other models (V480 S or V480 N) may differ.

## TTL: Wireless Multiple Flash Shooting in TTL Auto Flash Mode

Set the flash groups (A, B, C, D and E) of V480 (sender unit) as **< TTL >**, no need to set the receiver units and they will perform wireless multiple flash shooting in auto flash. Set the FEB value on sender unit, no need to set the receiver units and they will follow the sender.

- Auto Flash Shooting with Multiple Receiver Units

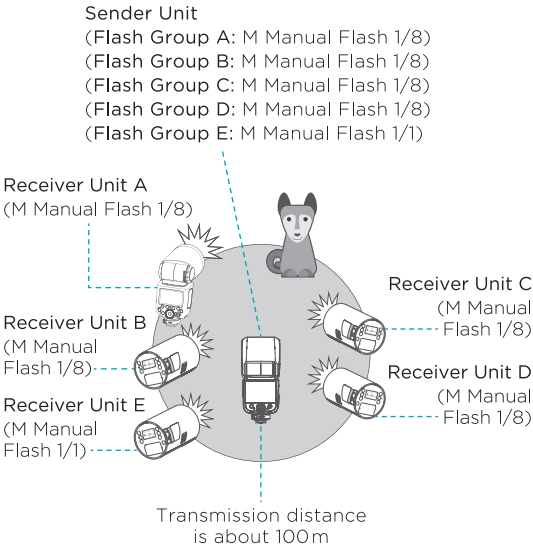


- 📌 • There is no group E in sender groups of V480 S and V480 N.

# M: Wireless Multiple Flash Shooting in M Manual Flash Mode

Set the flash groups (A, B, C, D and E) of V480 (sender unit) as either the same or different flash output power, no need to set the receiver units and they will perform wireless multiple flash shooting by following the sender.

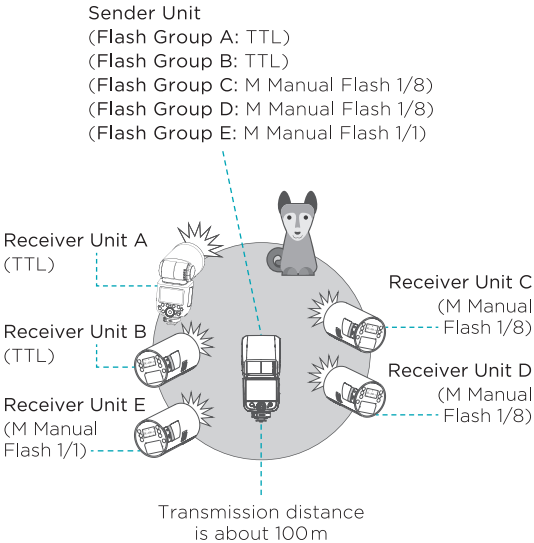
- Manual Flash Shooting with Multiple Receiver Units




• There is no group E in sender groups of V480 S and V480 N.

# Wireless Multiple Flash Shooting in Different Flash Modes

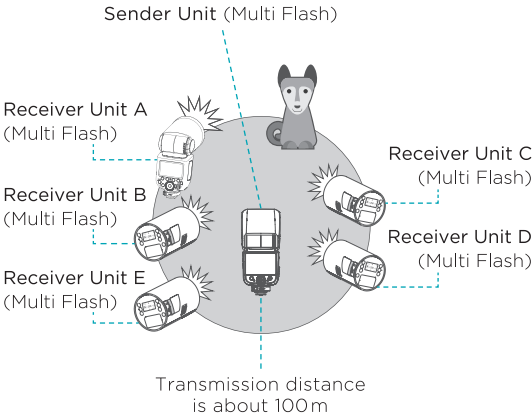
Set the flash groups (A, B, C, D and E) of V480 (sender unit) as the different flash modes, no need to set the receiver units and they will perform wireless multiple flash shooting in different flash modes. Set the FEB value on sender unit, no need to set the receiver units and they will follow the sender.



 • There is no group E in sender groups of V480 S and V480 N.

# Wireless Multiple Flash Shooting in Multi Flash Mode

Set the V480 (sender unit) to multi flash mode, no need to set the receiver units (A, B, C, D and E) and they will perform wireless multiple flash shooting with the sender unit. Set the flash output value, number of flashes and flash frequency on sender unit, no need to set the receiver units and they will follow the sender. Each sender unit can set up to five groups of multi flashes.



• There is no group E in sender groups of V480 S and V480 N.



## Other Applications

### Sync Triggering

The sync cord jack is a Ø2.5mm plug. Insert a trigger plug here and the flash will be fired synchronously with the camera shutter.

### Modeling Flash

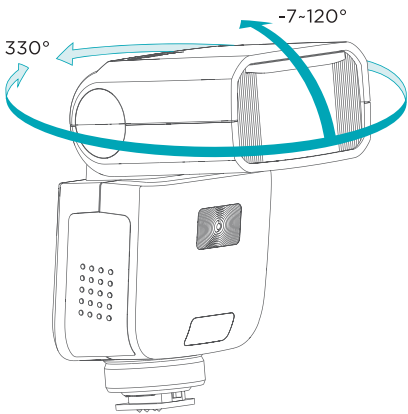
If the camera has a depth-of-field preview button, pressing it will fire the flash continuously for 1 second. This is called modeling flash. It enables you to see the shadow effects on the subject and the lighting balance. You can fire the modeling flash during wireless or normal flash shooting.



- To avoid overheating and deteriorating the flash head, do not fire the modeling flash for more than 10 consecutive times. If you fire the modeling flash 10 consecutive times, allow at least 10 minutes' break for the camera flash.
- The modeling flash cannot be fired with the Canon EOS 300 and Type-B cameras.
- V480 S does not support modeling flash.

# Bounce Flash

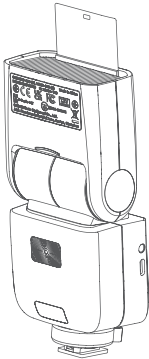
By pointing the flash head toward a wall or ceiling, the flash will bounce off the surface before illuminating the subject. This can soften shadows behind the subject for a more natural-looking shot. This is called bounce flash.



- 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.

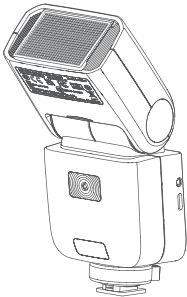
## Use Reflector to Take Photos

Pull out the built-in reflector and wide-angle diffuser from the flash head at the same time and then push the wide-angle diffuser back. In such case, if this product is being used to take photos, it will produce a highlighted point on the eyes of the subject and thus make the eyes charming (catch lights). This function can reach optimal effect when the flash head is up 90°.




## Use Wide-angle Diffuser to Take Photos

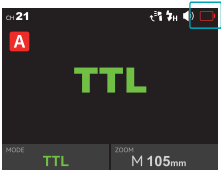
Pull out the built-in wide-angle diffuser to enlarge flash lighting range, so as to get more softened and natural lighting effect.



- The ZOOM value is fixed at 14mm when the wide-angle diffuser is pulled out.

# Low Battery Warning

If the battery power is low, the  icon will turn red. Please replace or charge the battery immediately.



## Control with the Camera's Menu (Only available in V480 C)

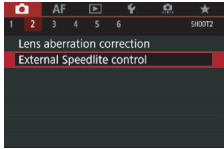
If the camera flash is attached to an EOS camera which has a camera control function, the flash can be controlled using the camera's menu screen.

The functions that can be set are as follows. The available settings vary depending on the flash mode, wireless flash function settings, and other conditions.

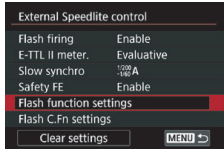
Function	
Flash Firing	On / Off
E-TTL Balance	Ambience priority / Standard / Flash priority
TTL Metering	Evaluative (Face priority) / Evaluative / Average
Continuous Flash Control	E-TTL shooting every time / E-TTL shooting for the first time
Flash synchronization speed in aperture-priority mode	
Flash Mode	TTL flash metering (auto flash) / manual flash / multi flash (stroboscopic)
Wireless Functions	Wireless flash: Off / Radio transmission
Zoom (Flash Coverage)	
Shutter Sync	First-curtain Sync / Second-curtain Sync / High-speed Sync
Flash Exposure Compensation	

# Setting Camera Flash Functions

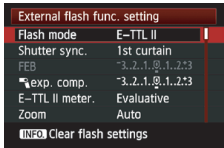
1 Select **< Flash control >** or **< External Speedlite control >**.



2 Select **< Flash function settings >** or **< External func. setting >**.



3 The setting screen and items displayed vary depending on the camera.




- To clear all custom function settings, you can enter the **< Clear settings >** in step 2 and select **< Clear all Speedlite C.Fn's >** or **< Clear ext. flash C.Fn set. >**.
- 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.

# Global Shutter Sync Shooting

## (Only available in V480 S)

By using a combination of V480 S and a camera equipped with global shutter image sensor, flash photography can be synchronized with the entire range of shutter speeds available on the camera, enabling more effective flash exposures than conventional high-speed sync photography (HSS).

1. When V480 S is used in TTL auto flash mode with a global shutter camera, the flash will be synchronized properly at both low and high shutter speeds. Compared to a non-global shutter camera, with a global shutter camera, the HSS flash time is shorter (about 2-5 milliseconds), the recycle time is faster, and the camera can take more shots.
2. When V480 S is used in M (manual) flash mode and you want to use single pulse flash (not HSS) in high-speed shutter (with a shutter speed faster than 1/600), you can adjust the camera's flash delay time to match the exposure time, so that you can shoot with a more appropriate amount of light. Compared to HSS mode, this mode has a better flash index with the same power.

**Flash timing settings:** Camera Menu →  (Exposure/Color) → [Flash] → [Flash Timing Setting] → [On] → Set the flash timing to the desired value.

## ADJ flash timing settings menu:

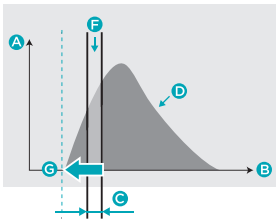
**On:** Adjusts the flash timing manually (0 microseconds to 1000 microseconds).

**Off:** Does not adjust the flash timing (the flash will fire in non-single pulse flash when the shutter speed is 1/600).

# How to Match the Flash and the Shutter

High-speed shutter single pulse flash requires very strict time alignment. As shown in the figure, the shutter needs to be turned on at the optimal light effect of the flash. Matching method is as follows:

Set the flash to M (manual) flash mode and enter the menu, turn on ADJ in the camera flash timing settings. Input ADJ parameter which is related to the camera and flash used. If you are using V480 S with A9MIII, this parameter is about 140 microseconds when V480 S is wireless off, and about 540 microseconds when V480 S is wireless on (if you are using other global shutter cameras, you need to full-time match to determine the time). After setting the above parameters, adjust the camera shutter to 1/80000 and the flash power to 1/256 (The matching requirements are higher for faster shutter speed and lower power, if you adjust the right combination, other combinations are usually suitable. When set to a fast shutter speed and high power, since the flash timing is much longer than the shutter time, you can move the time back and select the peak of the flash.), you can finetune the ADJ parameters to the optimal exposure time in case the flash is out of sync, then you can test the shootings under other shutters.




- |                                 |  |
|---------------------------------|--|
| <b>A:</b> Amount of flash light | <b>D:</b> Amount of flash light in 1/256 power |
| <b>B:</b> Time                  | <b>F:</b> Exposed amount of flash light        |
| <b>C:</b> Shutter speed         | <b>G:</b> Flash starting timing                |



- If you set the camera's shutter speed to faster than 1/10000 and take a picture, the brightness and color may vary.
- For camera equipped with a global shutter image sensor, the HSS icon will not be displayed on the panel regardless of whether the high-speed sync setting is **"ON"** or **"OFF"**.
- When the flash is connected to the camera using a sync cord, the camera shoots with a traditional high-speed sync instead of using the global shutter sync, so the distance that the flash's light can reach is shortened.

# Protection Functions

## Over - Temperature Protection

- To avoid overheating and deteriorating the flash head, do not fire more than the mentioned below continuous flashes in fast succession at 1/1 full power, or fire more than 60 continuous flashes in fast succession at 1/1 full power in HSS mode.
- If you fire more than the mentioned flashes and then fire more flashes in short intervals, the inner over-temperature protection function may be activated and make the recycle time over 10 seconds. 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, the icon  is shown on the LCD display.

### Number of flashes that will activate over-temperature protection:

Number of Flashes Flash Power \ Focal Length	14mm	24mm	28mm	35mm	50mm	70mm	80mm	105mm
1/1	30	40	50	60	60	75	75	80
1/2	46	60	75	91	91	114	114	120
1/4	91	120	150	182	182	231	231	240
1/8	240	300	300	300	300	300	300	300
1/16	600	600	600	600	600	600	600	600
1/32	1200	1200	1200	1200	1200	1200	1200	1200
1/64	2000	2000	2000	2000	2000	2000	2000	2000
1/128	3000	3000	3000	3000	3000	3000	3000	3000
1/256								

### Number of flashes that will activate over-temperature protection in HSS mode:

Power Output Level	Number of Flashes
1/1	60
1/2	75
1/4	100
1/8	
1/16	
1/32	
1/64	
1/128	
1/256	



# Other Protections

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

Display	Meaning
Error 1	A failure occurs on the recycling system so that the flash cannot fire. Please restart the flash unit. If the problem still exists, please send this product to a maintenance center.
Error 3	The voltage on two outlets of the flash tube is too high. Please send this product to a maintenance center.
Error 5	Abnormalities in the flash circuit. Please send this product to a maintenance center.
Error 9	There are some errors occurred during the upgrading process. Please using the correct firmware upgrade method.

## The Reason & Solution of Not Triggering in Flashpoint 2.4G Wireless

- 1. Disturbed by the 2.4G signal in outer environment (e.g. wireless base station, 2.4G wifi router, Bluetooth, etc.)**
  - To adjust the channel CH setting on the flash trigger (add 10+ channels) and use the channel which is not disturbed. Or turn off the other 2.4G equipment in working.
- 2. Please make sure that whether the flash has finished its recycle or caught up with the continuous shooting speed or not (the flash ready indicator is lightened) and the flash is not under the state of over-heat protection or other abnormal situations.**
  - Please downgrade the flash power output. If the flash is in TTL mode, please try to change it to M mode (a pre-flash is needed in TTL mode).
- 3. Whether the distance between the flash trigger and the flash is too close or not (<0.5m).**
  - Please turn on the **"close distance wireless mode"**:
    - R2 Series:** Press and hold the triggering button then turn on the device until the indicator blinks twice.
    - R2 Pro and R2 Mark II Series:** Set the C.Fn-DIST to 0-30m.
    - R2 nano Series:** Set the triggering distance to 0-30m.
- 4. Whether the flash trigger and the receiver end equipment are in the low battery states or not.**
  - Please replace the battery or charge it in time.
- 5. The flash trigger's firmware is an older version.**
  - Please upgrade the firmware of the flash trigger referring to the instruction manual for specific firmware upgrades.
- 6. The camera's firmware is an older version.**
  - Please upgrade the firmware of the camera referring to its instruction manual.

# Technical Data






Model	V480 C	V480 S	V480 N
Global Shutter Sync Shooting	Unprovided	Provided	Unprovided
Radio Wireless Global Shutter Sync	Unprovided	Provided	Unprovided
Guide Number (1/1 step, 105mm focal length)	Approx. GN50 (ISO 100, in meters)		
Flash Coverage	Auto zoom (flash coverage is set automatically to match the lens focal length and image size)		
	Manual zoom (24 - 105mm)		
Flash Head Angl	Swinging/tilting flash head (bounce flash): 0 to 330° horizontally and -7° to 120° vertically		
Flash Duration (t0.1)	1/600s - 1/20000s		
Exposure Control			
Exposure Control System	TTL auto flash and manual flash.		
Flash Exposure Compensation (FEC)	±3 steps with 1/3 increment each step.		
Sync Mode	High-speed sync (up to 1/8000 seconds or 1/80000 seconds with Sony cameras equipped with global shutter), first-curtain sync, and second-curtain sync.		
Multi Flash	Provided (up to 100 times, 100Hz)		
Wireless Flash (Radio 2.4G Transmission)			
Wireless Function	Sender, Receiver		
Sender Groups	A, B, C, D, E (V480 C) M, A, B, C, D (V480 S/V480 N)		
Receiver Groups	A, B, C, D, E		
Transmission Range (approx.)	100m		
Channels	32: 01-32		
ID	OFF/01-99		
LED Modeling Lamp			
Power	2W		
Color Temperature	5300K±300K		
Power Supply			
Lithium Battery	7.2V / 2200mAh		
Recycle Time	Approx. 1.7 seconds. LED indicator will light up when the flash is ready.		
Number of Flashes (1/1 step)	Approx. 650		
Power Saving	Provide standby and auto off functions.		
Sync Triggering Mode	Hot shoe, 2.5mm sync cord		
Dimension			
W x H x D	6.54" x 2.8" x 1.93"		
Net Weight Without Battery	Approx. 282g		
Net Weight With Battery	Approx. 361g		

\*Specifications and data may subject to changes without notice.

# 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 with dry cloth.
-  or  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  or  is not displayed in the view finder.  
→ check whether this flash unit is securely attached to the camera hot shoe.
- 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 red on the LCD panel.  
→ Please replace or charge the battery immediately.

## The power turns off by itself.

- Setting as wi-off/sender mode when the standby function is on, the flash will enter sleep mode automatically after 90 seconds of idle use.  
→ Press the camera shutter halfway or press any button will wake up the flash unit.
- Setting as wi-off/sender mode when the standby function is off while the auto off function is on, the flash will automatically shut down after 60 minutes (or 30 minutes, 90 minutes) of idle use.  
→ Restart the flash unit.
- Setting as receiver mode when the auto off function is on, the flash will automatically shut down after 60 minutes (or 30 minutes, 90 minutes) of idle use.  
→ Restart the flash unit.

### **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.
- The subject appears too dark or too bright.
- Set the proper FEC value.

### **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 24 and 105mm, which fits medium - format cameras.
- Set the flash coverage as auto flash zoom.

## Firmware Upgrade

1. This product supports firmware upgrade through the USB-C port, please use USB-C cable (sold separately).
2. As the firmware upgrade needs the support of **Flashpoint F3** software, please download and install the "**Flashpoint F3 firmware upgrade software**" before upgrading. Then, choose the related firmware file.
3. Please refer to the latest electronic version of the instruction manual.

## Compatible Camera Models

V480 C can be used on the following Canon EOS series camera models:

80D	90D	7D	6D	70D	750D	760D	5D Mark IV
EOS 1DX	6D Mark II	77D	800D	5D Mark III	5D Mark II		
60D	7D Mark II	600D	50D	30D	40D	500D	M5
M3	M50	R	RP	M6II	R5	1500D	3000D
R7	R6II	R50	R8	R5C	R10	R100	R5II
R3	200DII						

V480 S can be used on the following Sony camera models:

α77II	α99	α77	DSC-RX10	α6000	α7R	α350
α7RII(4.0)	α7RIII	α7M3	α9	α7RIV	α7R5	
α7MIV	ZV-E10	A9III	A7C	A7CII	α6400	α6500

V480 N can be used on the following Nikon camera models:

D800	D750	D700	D610	D500	D200	D300S
D5	D4	D810	D780	D5300	D5200	D5100
D5000	D3300	D3100	D60	Z6	Z7II	Z8
ZFC						



- These tables only list the tested camera models, not all cameras. For the compatibility of other camera models, a self-test is recommended.
- Rights to modify this table are retained.

## Warning

**Operating Frequency:** 2412.99MHz - 2464.49MHz

**Maximum EIRP Power:** 5.0dBm

## 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 product 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

 [support@flashpointlighting.com](mailto:support@flashpointlighting.com)

 Flashpoint,  
42 West 18th Street,  
New York, NY 10011

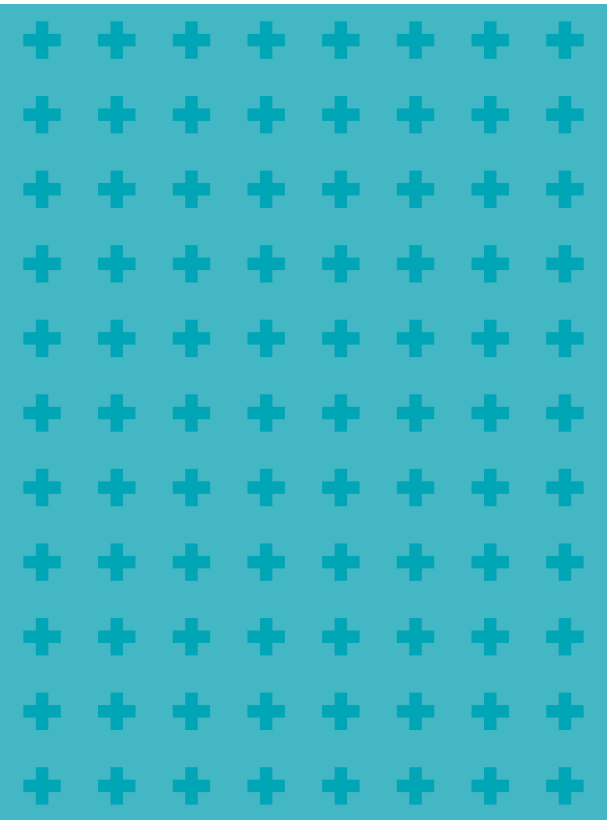
You can always contact us at [BRANDS@ADORAMA.COM](mailto:BRANDS@ADORAMA.COM) for personal technical support.

Our website contains a wide range of Support and FAQ pages with valuable technical assistance.

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