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FLASHPOINT FPLFXIOO TTL Round Head Flash Instruction Manual

FLASHPOINT

FPLFXIOO
X100 LI-ON R2
ROUND HEAD FLASH
ON CAMERA FLASH WITH R2 TRANSCEIVER

Contents

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 death, 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 O°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 round head camera flash X100 is perfect for TTL auto flash with its excellent compatibility, you can enjoy unprecedented shooting convenience even with frequent changes in lighting conditions.


Main Features

- **Intuitive Touch Screen:** The 2.3″ ultra-high definition touch screen is sensitive and intuitive to achieve clear and convenient operations
- **Dual Operation Options:** Traditional physical buttons and select dial, or modernized touch screen control, are both available.
- **Round Flash Head:** Well-crafted round flash head offers round, soft and even light effects.
- **Powerful Flash Functions:** 100Ws flash power at 1/1 step in M mode, 81 steps adjustable from 1/1 to 1/256 or from 2.0 to 10, suitable for full range of shooting needs.
- **Fine-adjustable Modeling Lamp:** Built-in 2W LED modeling lamp with adjustable brightness from 1 to 10 caters the lighting needs of different scenes.
- **Effective Power Supply:** 7.2V 2980mAh lithium battery provides merely 1.7s recycle time and up to 400 flashes at full power output.
- **TTL Compatibility:** Perfect compatible with TTL technology to achieve auto flash control, competent with both sender and receiver units.
- **Wireless Control Ability:** 2.4G wireless sending and receiving module allows for easy remote control of flashes.
- **Abundant Accessories Choices:** Optional power box PB960 enables quicker recycle time of approx. 0.8s, detachable sub flash SU-1 brings better filling light effects.
- **Fully-upgraded Functions:** Support M (manual) flash, Multi flash, high-speed sync, second-curtain sync, FEC, etc.
- **Stable Continuous Shooting:** The output brightness and CCT remain consistent, and the light is evenly distributed in high-speed continuous shooting.
- **Continuous Firmware Upgrade:** Flashpoint is committed to regularly updating its flash software to maintain

the optimal compatibility with the original camera system.

Note: The power box PB-960 is sold separately.

Name of Parts

Body
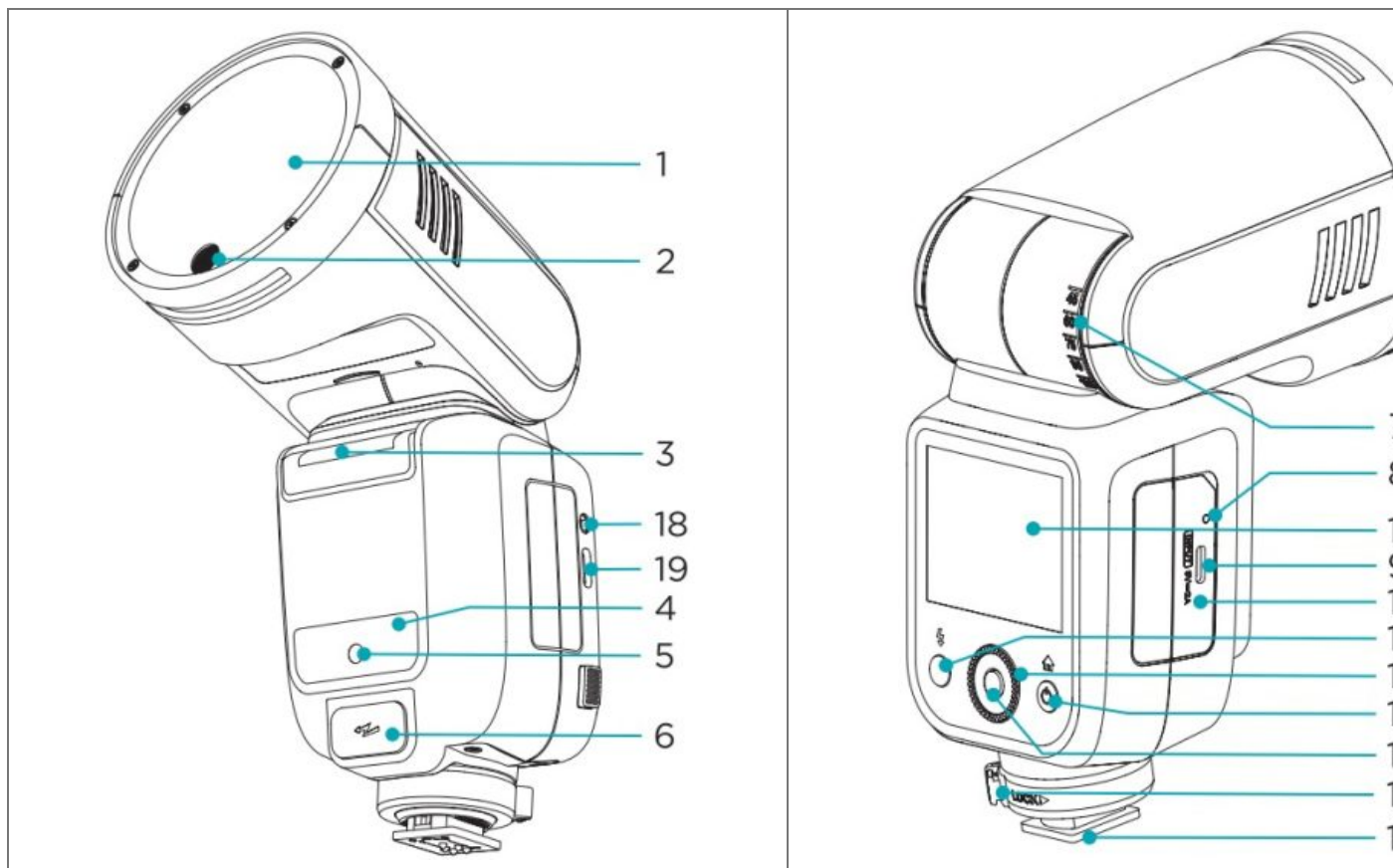
1. Flash Head
2. LED Modeling Lamp
3. External Flash Interface
4. Wireless Sensor
5. Focus Assist Beam
6. External Power Box Port
7. Bounce Angle Scale
8. Battery Charging Indicator (red in charging, green in fully charged)
9. USB Type-C Charging Port
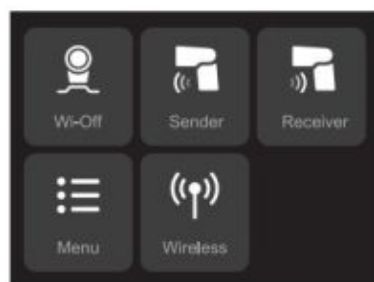10. Lithium Battery

11. Touch Screen
12. Power Switch Button
(Short press once to enter mode / return interface, o enter other functions interface)
13. Hot Shoe
14. Hot Shoe Fixing Buckle
15. Test Button / Recycle Indicator
16. Select Dial
17. Set Button
(Short press to select or confirm)
18. Sync Cord Jack
19. USB-C Firmware Upgrade Port
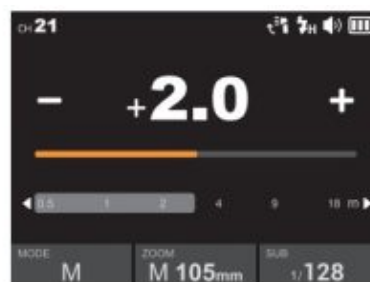
Detachable Sub Flash SU-1
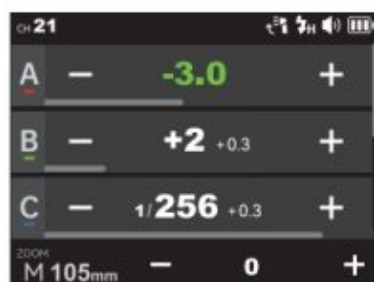
1. Flash Tube
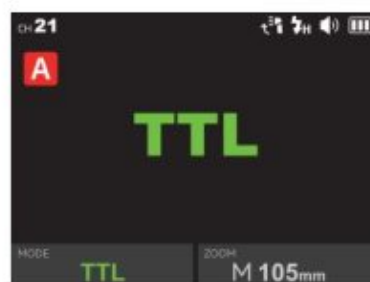2. Detaching Pusher
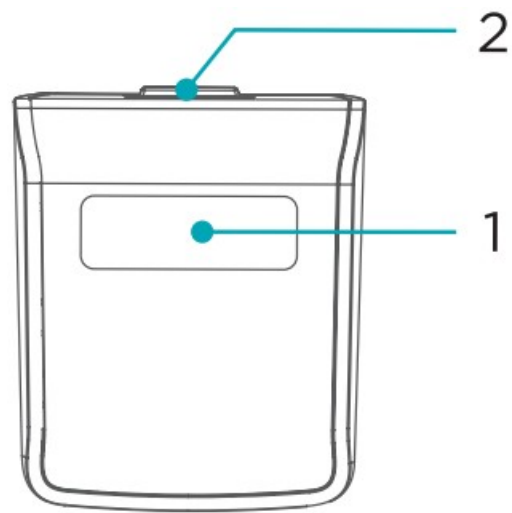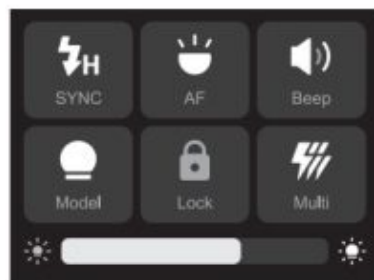
2.3″ LCD Panel
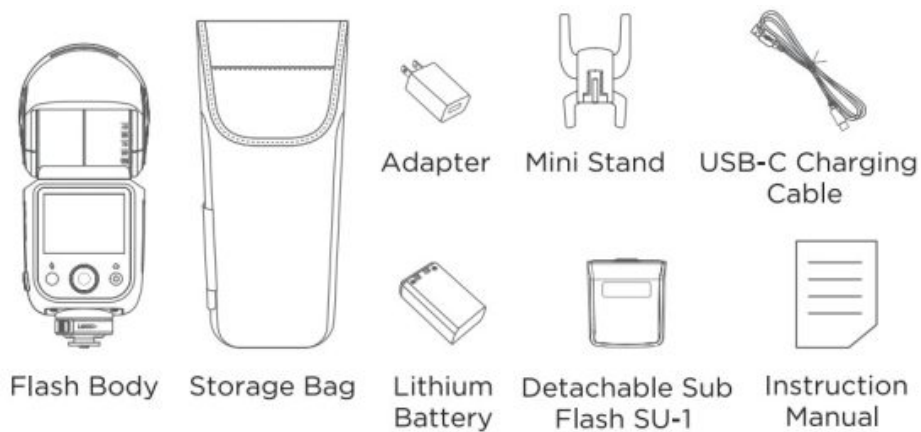

Mode Interface

Wi-Off Mode

Sender Mode

Receiver Mode

Other Functions

What's Inside

Adapter   Mini Stand   USB-C Charging
Cable

Flash Body   Storage Bag   Lithium   Detachable Sub   Instruction
Battery   Flash SU-1   Manual

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
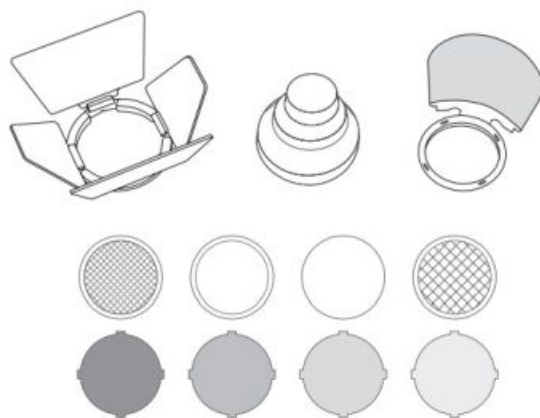
Accessory Kit
for Round Flash Head AK-R1

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

Installing/Disassembling Battery

Disassembling the battery: Press and hold the battery remove button, then push the battery out of the battery compartment.
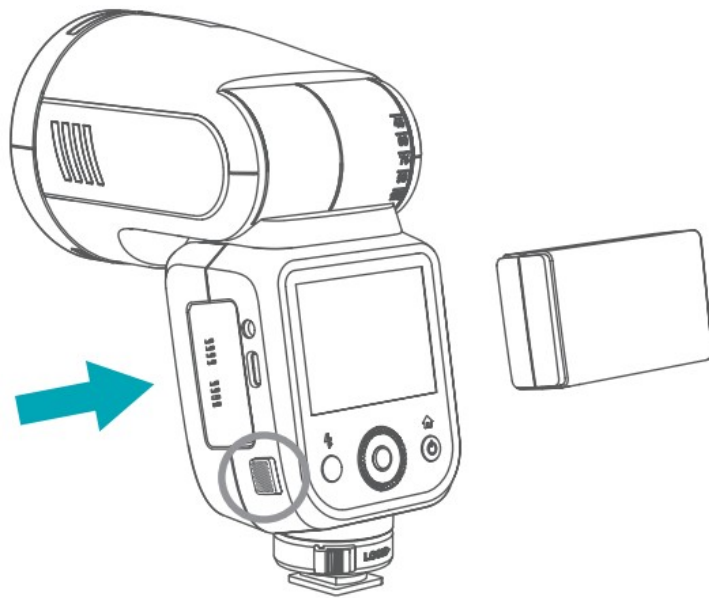
Installing the battery: Insert the battery into the battery compartment in the direction as referred below until it's firmly locked.
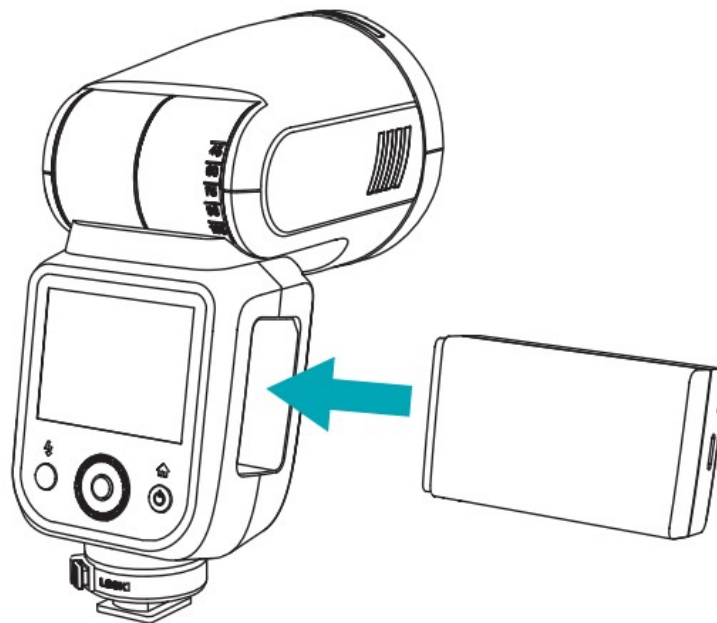
Battery Level Indication

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. **Note:** Please recharge the battery as soon as possible (within 10 days) Then, the battery can be used or be placed for long period.

Installing/Removing 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.
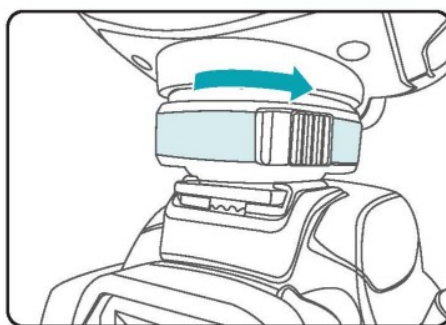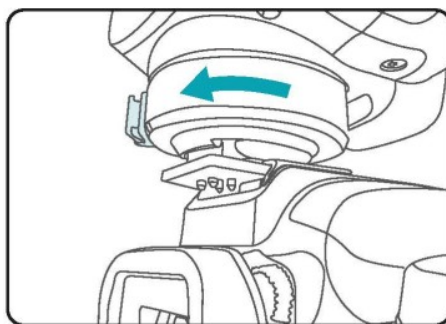
Removing the camera flash:
Press and rotate the hot shoe fixing buckle to the left until it is loosened, then take off the camera flash.
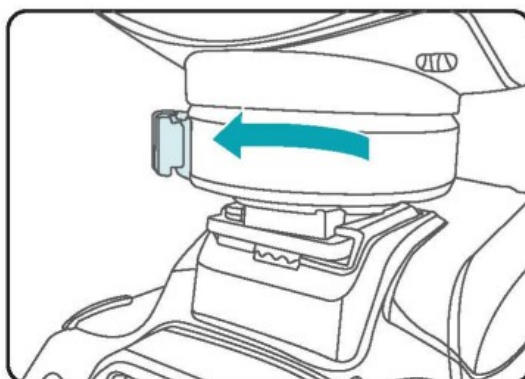
Installing/Removing SU-1

Installing:
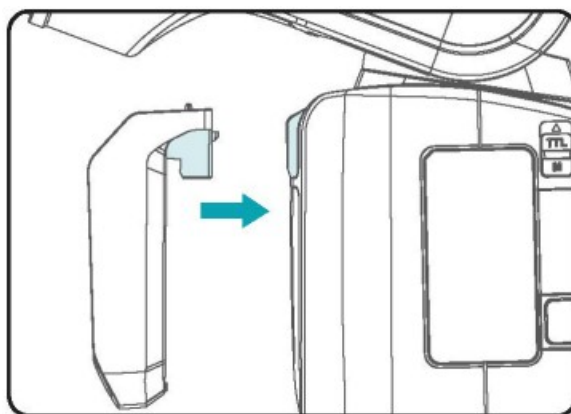
Align the detachable sub flash SU-1 with the external flash interface of X100 and insert it parallelly, then press it down, a "click" sound means it's properly installed.

Removing:
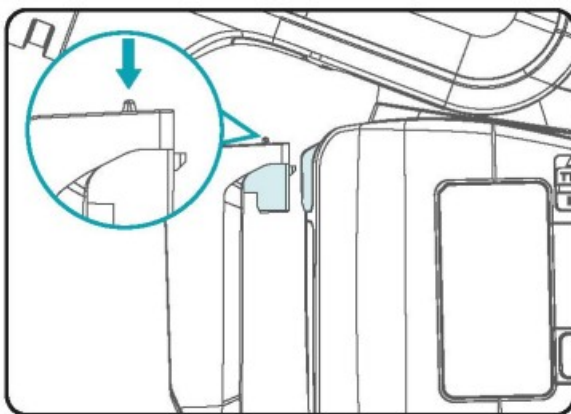
Push the release button on SU-1 and pull it up at the same time to detach it.

⚠ **Note:** Please turn off X100 before installing and disassembling SU-1. Do not insert in or pull out SU-1 when X100 is in power on status or working, otherwise malfunctions may occur.

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.

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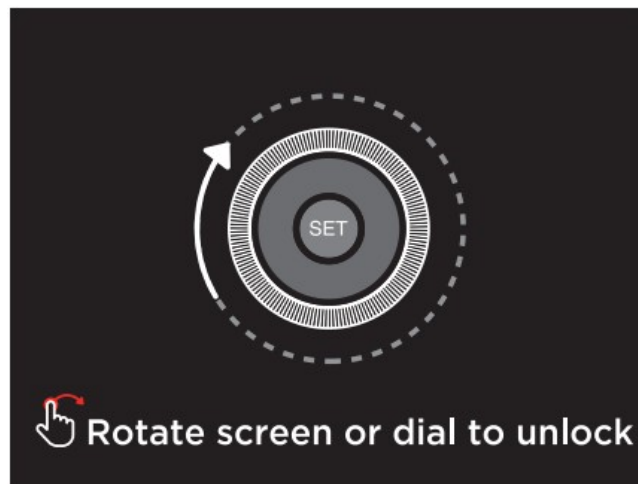
Standby: Setting as wi-off/sender mode when the standby function is on, the flash will enter standby mode automatically after a certain period (approx. 90 seconds) of idle use. Press the camera shutter halfway or press any button will wake up the flash unit.

Auto Off:

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

2. Setting as receiver mode and turning on the auto off function (the auto off function is available no matter the standby function is on or off), 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 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.
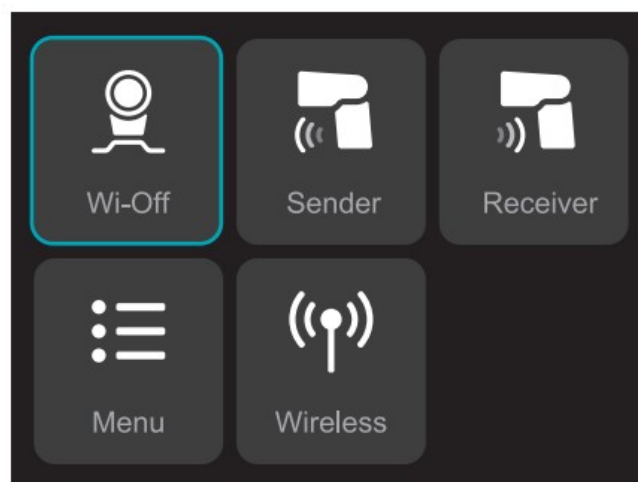
Buttons and Select Dial: Press the power switch button to make the mode interface appears, rotate the select dial and press the set button to choose and enter Wi-Off mode.

M: Manual Flash
The flash output is adjustable from 1/1 to 1/256 or from 2.0 to 10 with 0.1 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 ±0.1 increment each step, or directly pull the progress bar to achieve quick adjustment.
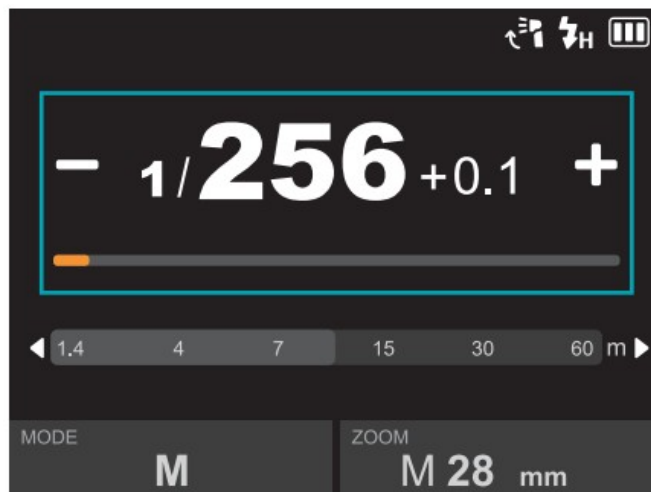

Buttons and Select Dial:
Rotate the select dial and press the set button to choose "MODE" icon, then rotate and press again to choose "M". Rotate up to choose the power value, then rotate and press again to adjust power with 0.1 increment each step, quick adjustment is also available by fast rotation.

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 ±3 with ±1/3 increment each step, or directly pull the progress bar to achieve quick adjustment.
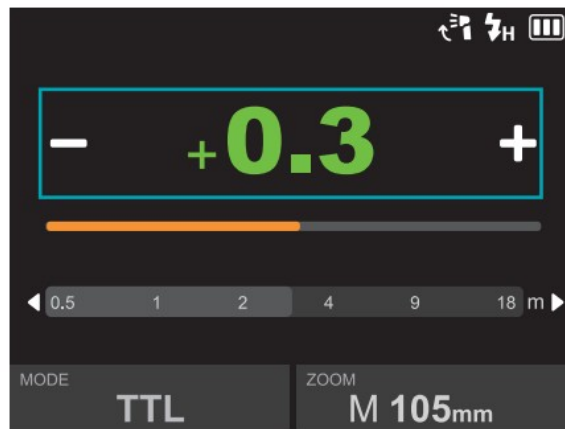
Buttons and Select Dial: Rotate the select dial and press the set button to choose "MODE" icon, then rotate and press again to choose "TTL". Rotate up to choose the FEC amount, then rotate and press again to adjust the FEC amount among ±3 with ±1/3 increment each step, quick adjustment is also available by fast rotation.

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

- When the shutter is fully pressed, the flash will fire a pre-flash that the camera will use to calculate exposure and flash output the instant before the photo is taken.

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: 28 mm, 35 mm, 50 mm, 70 mm, 80 mm, 105 mm.

Touch Screen: Click the "ZOOM" icon to switch between auto zoom (A–mm) mode or manual zoom mode.
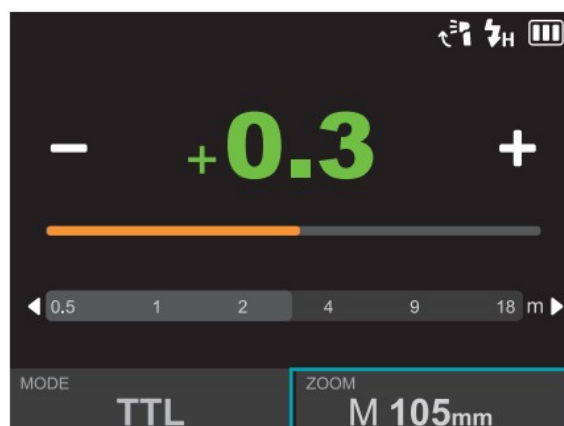
Buttons and Select Dial: Rotate the select dial and press the set button to choose "ZOOM" icon, then rotate and press again to choose the needed zoom mode.

⚠ 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.

SUB: Detachable Sub Flash SU-1
With detachable sub flash SU-1 attached to the external flash interface, better filling light effects can be achieved in M (manual) flash/TTL auto flash mode, this is helpful for portrait shooting.
Installation: Mount SU-1 directly to the external flash interface of X100, a "click" sound means it's properly Installed.
Flash Power Range: From 1/128 to 1/1 or from 3.0 to 10 in 8 steps, with +1/3 increment each step.
Touch Screen: Click the "SUB" icon to adjust its flash power by pressing "-"or "+" icon or sliding the progress bar. Turn on or off the sub flash by clicking the on/off icon down the screen.
Buttons and Select Dial: Rotate the select dial and press the set button to choose "SUB" icon, then rotate and press it again to adjust its flash power or turn it on/off.

⚠

- SU-1 is not useable in sender or receiver mode.
- The flash head need to be uplifted in order to use SU-1 properly.
- External flash do not support HSS.

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.

Group
Five groups: A, 8, C, D, E

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 from 1/256 to 1/1 or from 2.0 to 10, this group is in M (manual) flash mode and the value inside is the flash power. 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 between 1/256 to 1/1 or from 2.0 to 10, this group is in M (manual) flash mode and the value inside is the flash power. 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 from -3.0 to +3.0, this group is in TTL auto flash mode and the value inside is the flash compensation amount. 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 between -3.0 to +3.0, this group is in TTL auto flash mode and the value inside is the flash compensation amount. The flash compensation amount is adjustable by rotating the select dial, then press the set button to exit.

Adjust the Paremeters 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 (28mm-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.
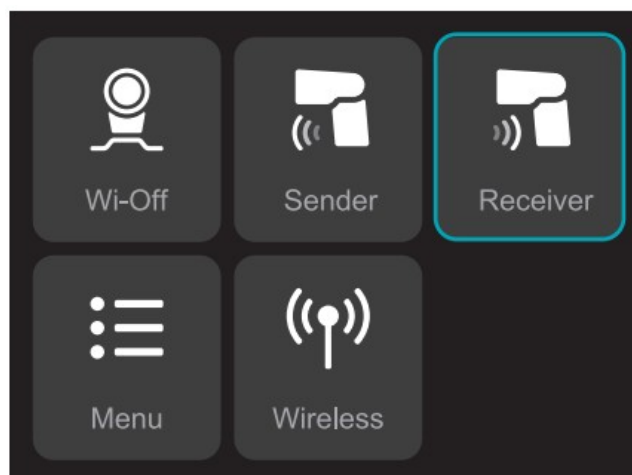
Buttons and Select Dial: Press the power switch button to make the mode interface appears, rotate the select dial and press the set button to choose and enter receiver mode.
The wireless is turned on by default in receiver mode.

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 (28 mm-105 mm). 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.
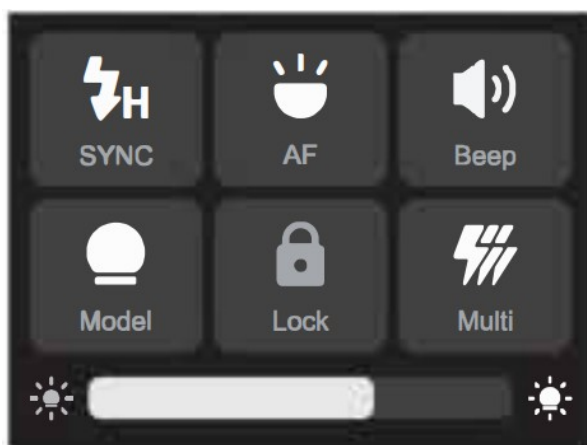
Sync Mode

⚡H 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.

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.

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.

Touch Screen: Click the "AF" icon to turn on or off the auto focus assist beam.

Buttons and Select Dial: Rotate the select dial to choose "AF" icon, then press the set button to turn on or off the auto focus assist beam.

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

ℹ

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

🔊 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 (Stroboscopic 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: 7/256-7/ 4 or 2.0-8.0
Number of flashes: 1-100
Flash frequency: 1-100
ZOOM range: auto zoom (A-mm), manual zoom (M 28mm, M 35mm, M50mm, M70mm, M 80mm, M 105mm)

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 5 Hz, 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.

ℹ️

- 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 Output \ Flash Frequency (Hz) / Number of Flashes	1	2	3	4	5	6-7	8-9
1/4	8	6	4	3	3	2	2
1/8	14	14	12	10	8	6	5
1/16	30	30	30	20	20	20	10
1/32	60	60	60	50	50	40	30
1/64	90	90	90	80	80	70	60
1/128	100	100	100	100	100	90	80
1/256	100	100	100	100	100	90	80

Flash Output \ Flash Frequency (Hz) / Number of Flashes	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.
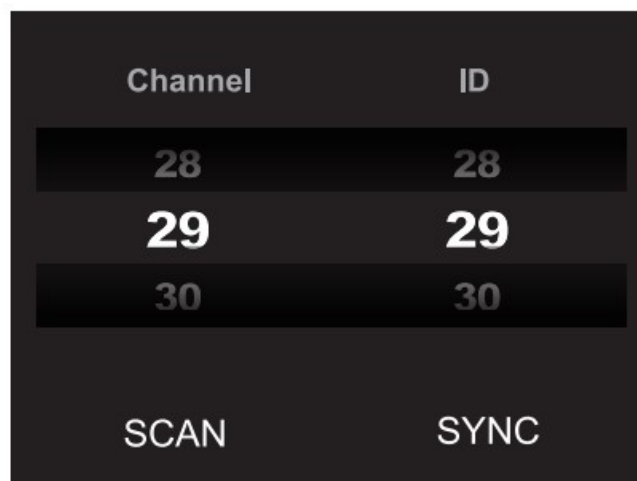
Buttons and Select Dial: Press the power switch button to make the mode interface appears, rotate the select dial and press the set button to choose and enter wireless mode. Short press the power switch button to return to the main interface.

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 X100 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 X100 and Lux Master.

    Buttons and Select Dial: Rotate the select dial on X100 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 X100 to receiver mode and the "Receiver" icon on the panel is yellow.
2. Assume flash trigger R2 nano C as the sender.

Touch Screen: Click the "SYNC" icon on both X100 and R2 nano.
Buttons and Select Dial: Rotate the select dial on X100 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 X100, 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.

Icons	Functions	Options	Description

	Sender Flash	Off	Sender flash off
		On	Sender flash on
	Power Type	1/256	Minimum power step is 1/256
		2.0	Minimum power step is 2.0
	Photocell	S1	Only available in M (manual) flash mode, the flash will fire synchronously when the main flash fires.
		S2	Only available in M (manual) flash mode, 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 flash.
	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.
	Language	Simplified Chinese	Simplified Chinese system
		English	English system
		Cancel	Cancel factory reset

	Factory Reset		
		Apply	Factory reset
⬛	Device Info	/	Display the device model and firmware version.

Wireless Flash Shooting (2.4G Wireless Transmission)

This section explains wireless sending / receiving flash shooting.
The X100 attached to the camera is referred as the sender unit. while a XlOO that is wirelessly controlled is referred as the receiver unit.
You can also wirelessly control the X100 set as the receiver unit with the TTL flash trigger R2 XPro II (sold separately). For details on setting the flash trigger functions, see the its instruction manual.

⚠️ When the camera's shooting mode is set to a fully automatic mode or an image zone mode, the operations in this section are not available. Please set the camera's shooting mode to Fv/P/Tv/Av/M/B.

Using a flash with a radio transmission wireless shooting function make it easy to shoot with advanced wireless multiple flash shooting, in the same way as TTL auto flash shooting.
As long as the channel, group, ID, and other relevant wireless settings of the sender and receiver units are set to the same, the settings on the X100 (sender unit) will be automatically applied to the wirelessly controlled X100 (receiver unit). Therefore, there is no need to operate the receiver unit during shooting.
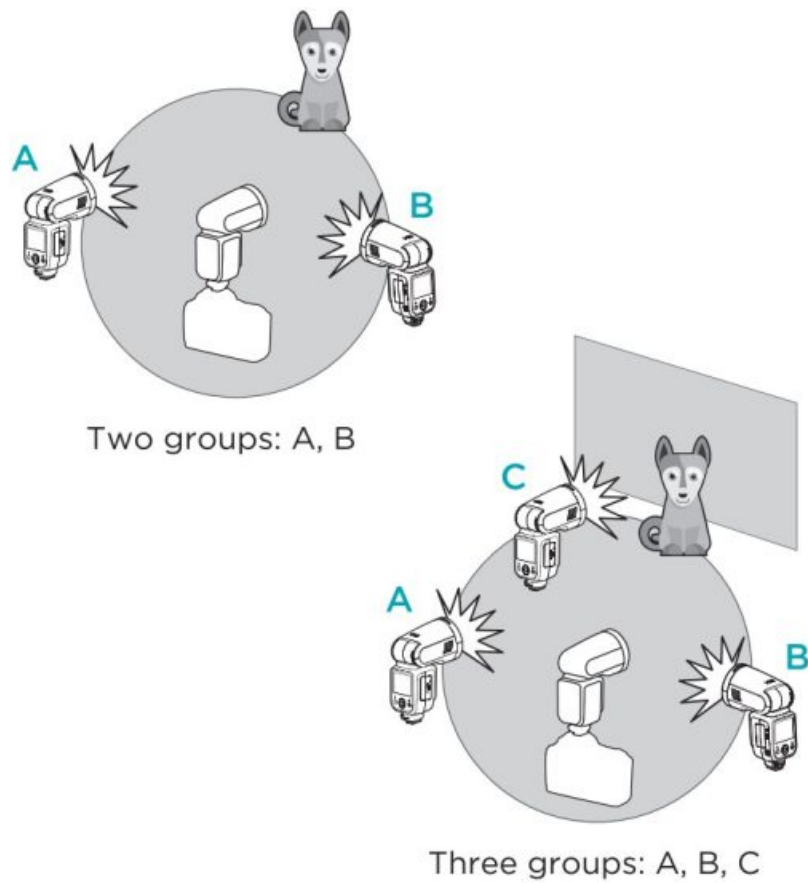
Positioning and Operation Range

- **Auto Flash Shooting with One Receiver Unit**
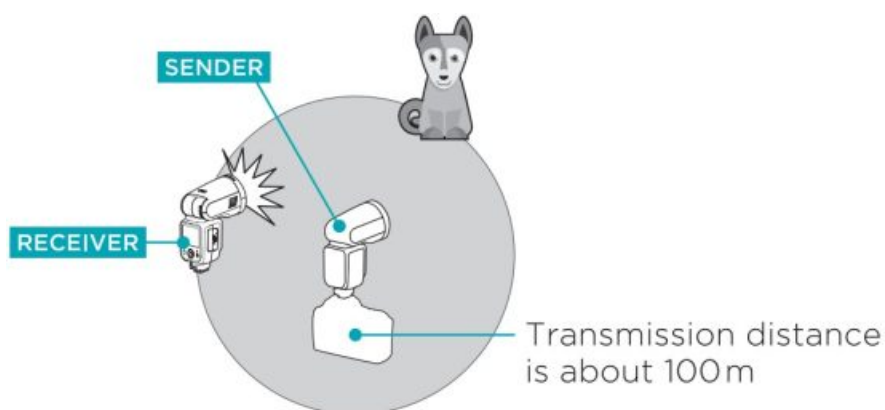
- **Auto Flash Shooting with Multiple Receiver Groups**

You can divide the receiver units into two or three groups and perform TTL auto flash while changing the flash ratio (flash output ratio).

Two groups: A, B

Three groups: A, B, C

⚠️

- 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 whether conditions.

• Shooting with a Different Flash Mode Set for Each Group
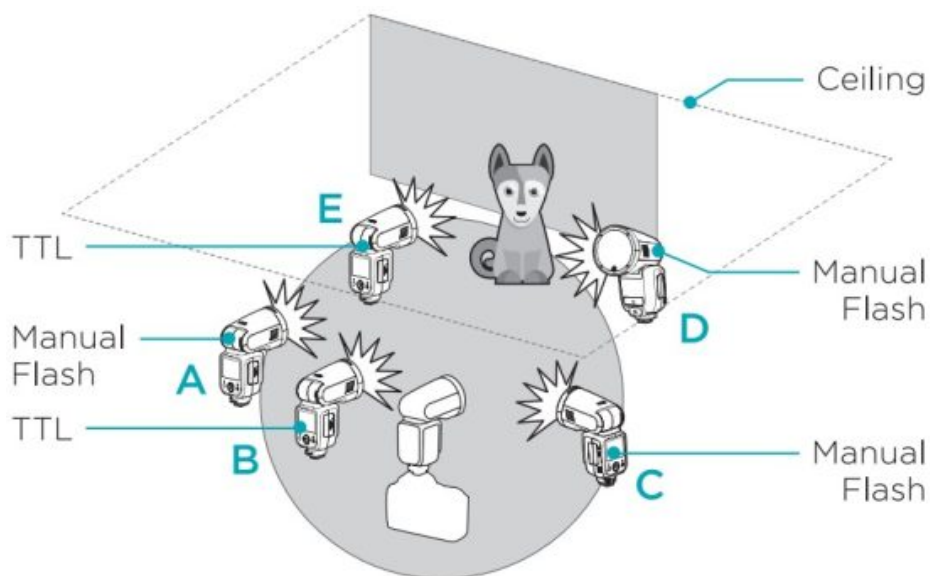
Wireless Sender/Receiver Settings

Set as a Sender Unit

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 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 sender mode. Short press the power switch button to return to the main interface.

Set as a Receiver Unit

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, 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 receiver mode. Short press the power switch button to return to the main interface.

About the Sender Unit

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

Sender Unit's (Flash) ON/OFF

You can set whether the sender unit flash that sends wireless signal flashes or not, and when the sender unit flash setting is on, the flash fires as a flash A group.

Touch Screen: Slide the screen from the left to the right to make the mode interface appears, click the "Menu" icon to enter menu interface, choose "Sender Flash" icon and click to turn on or off the sender flash.

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 enter menu interface and choose "Sender Flash", then rotate the select dial and press the set button to turn on or off the sender flash. Short press the power switch button to return to the main interface.

🄘 • Even if the sender unit flash firing is off, it still sends wireless flash signals.

TTL: Fully Automatic Wireless Flash Shooting

The below instructions are described in touch screen operation, you can also use buttons and select dial.

- Using Automatic Wireless Flash with a Single Receiver Unit

1. Sender Unit Setting

   Click the "Sender" icon on the panel, then the X100 attached to the camera is set as the sender unit.
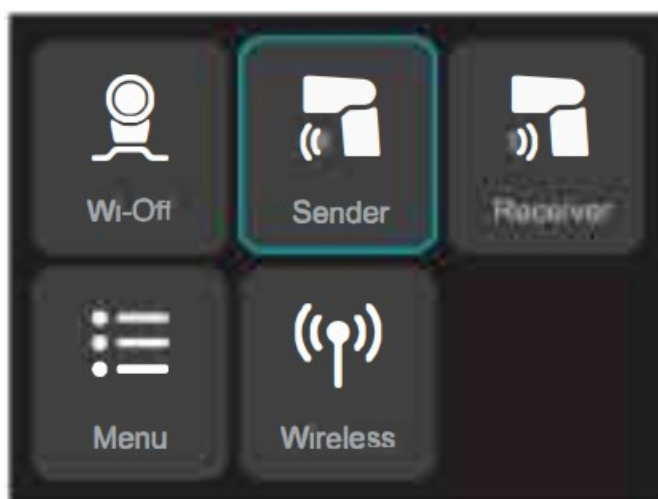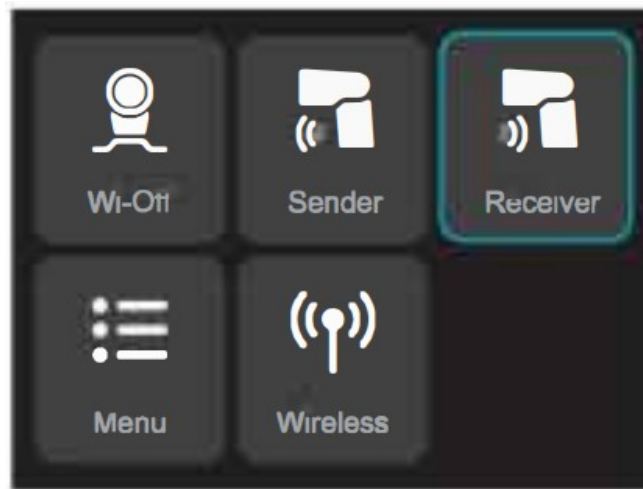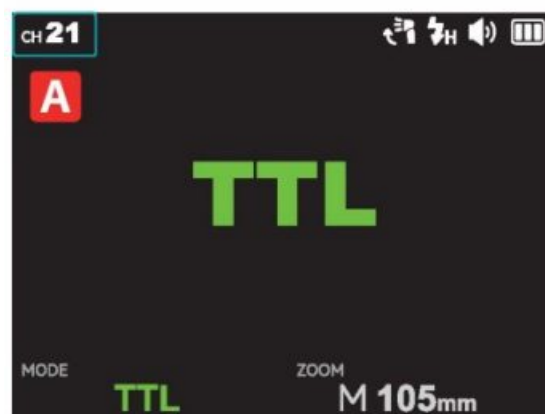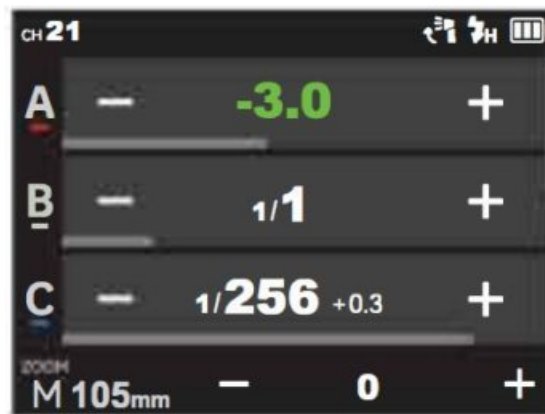
2. Receiver Unit Setting

   Click the "Receiver" icon on the panel, then the X100 wirelessly controlled is set as the receiver unit.

   R2 Mark II can also be set as sender unit.

   R2 Mark II can control X100's ZOOM value when the ZOOM is adjusted to auto (A) mode.

3. Check the Communication Channel/ID

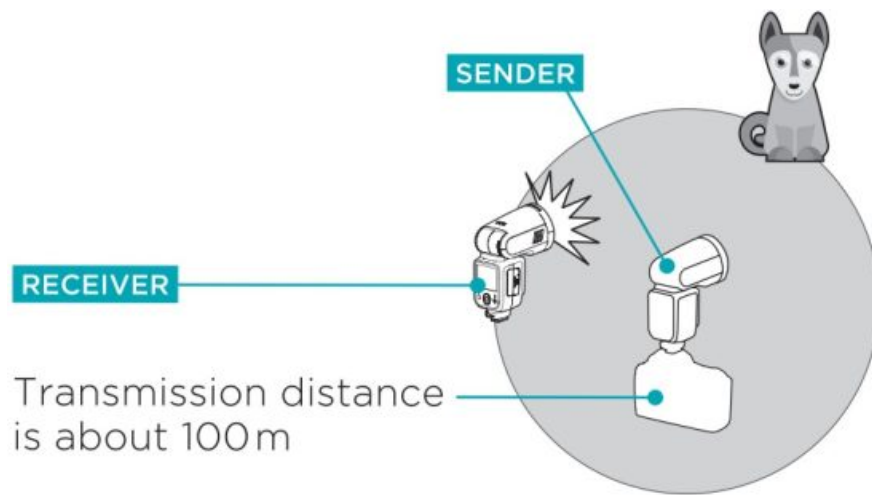   Set the wireless channels and IDs of sender unit and receiver unit to the same. For example, if the sender unit channel is set to 1, then the receiver unit channel needs to be 1 as well. You can also use the wireless sync function to set the channels and ID to the same quickly.

4. Position the Camera and Flashes

   The transmission distance of the sender unit and receiver unit is about 100m.

SENDER

RECEIVER

Transmission distance is about 100 m

5. Set the Flash Mode to <TTL>
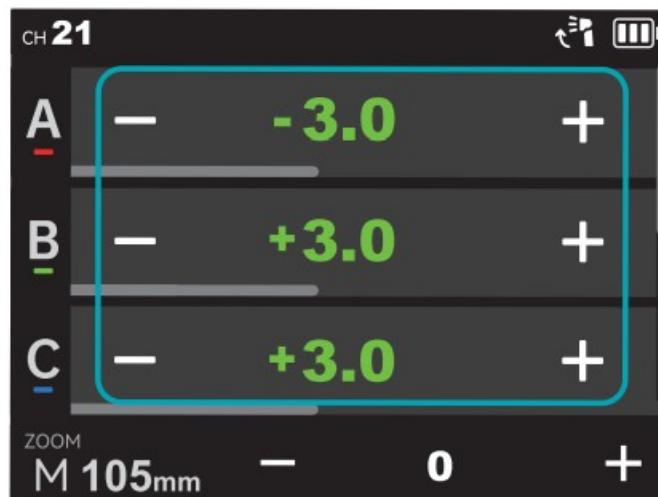
CH 21

A — - 3.0 +
B — +3.0 +
C — +3.0 +

ZOOM
M 105mm — 0 +

Click the "Sender" icon on the panel to enter sender mode. Press and hold the group "A/B/C/D/E" box to switch to TTL auto flash compensation amount.

Please set the sender unit's flash to ON in order to make the sender unit fire flashes.

6. Check Whether the Flash is Ready
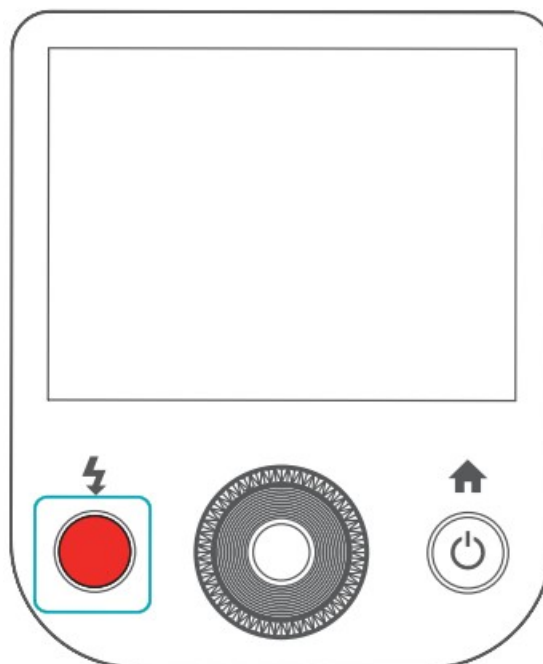
Check whether the sender unit's flash ready indicator is lightened.

7. Check the Flash Operation

Press the sender unit's test button <⚡>. Then, the receiver unit will fire. If not, adjust the distance from the sender unit.
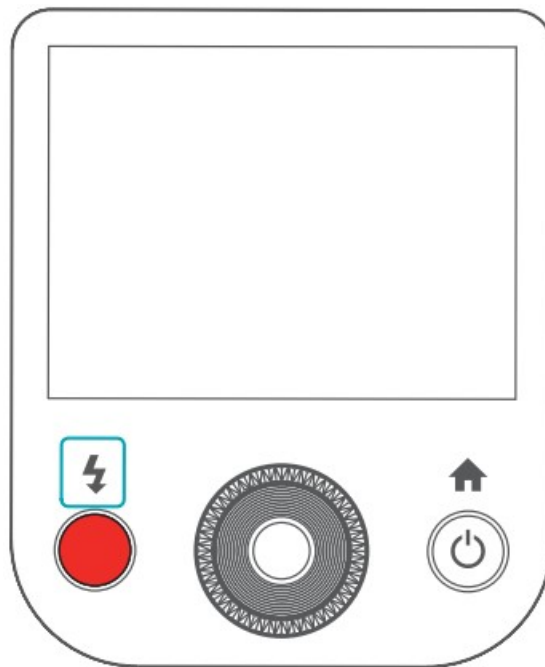
• Using Automatic Wireless Flash with Multiple Receiver Units

When stronger flash output or more convenient lighting operation is needed, increase the number of receiver units and set it as a single receiver unit.
To add receiver units, use the same steps as setting "using 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 or the sender unit flash firing is ON, automatic control is implemented to make all groups of flashes fire the same flash output and ensure the total flash output is up to standard exposure.
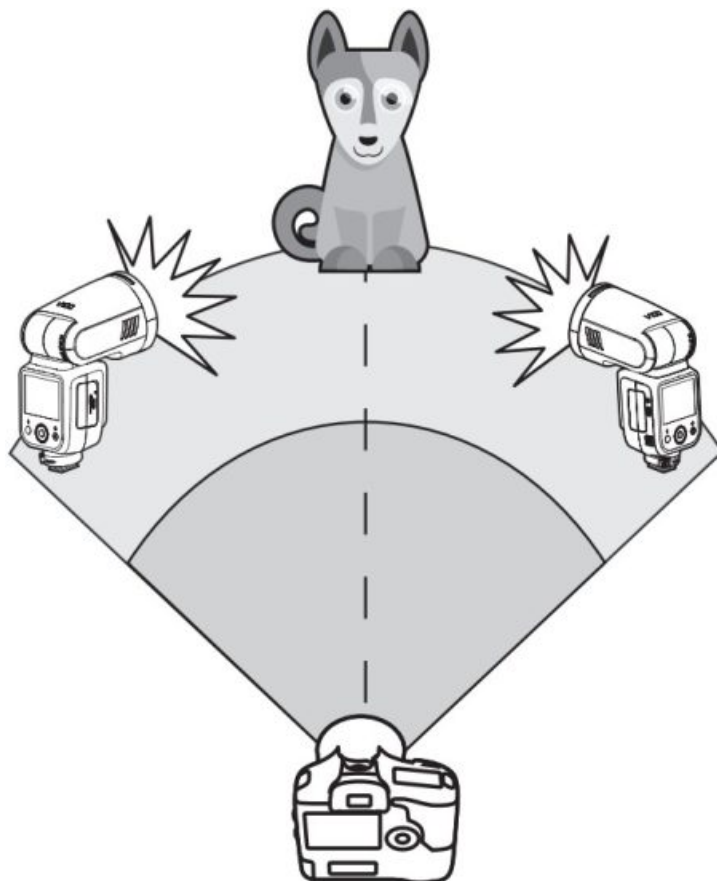
- Press the depth-of-field preview button on the camera to fire a modeling flash.
- If the receiver unit's auto power off function is on, press the sender unit's test button to power it on. Please note that test firing is unavailable during the camera's regular metering time.
- The effective time of receiver unit's auto power off is changeable between 30min or 90min in the menu settings.

M: Wireless Stroboscopic Flash Shooting with Manual Flash

Using wireless (multiple flash) shooting with manual flash, you can shoot with a different flash output setting for each receiver unit (flash group) while setting all parameters on the sender unit.

1. **Click the "Sender" icon on the panel, then the X100 attached to the camera is set as the sender unit**
   Click the "Sender" icon on the panel to enter sender mode. Press and hold the group "A/B/C/D/E" box to switch to M manual flash power.
2. **Set the flash output of each flash group**
   Click the"-" or"+" icon to adjust the flash output of each flash group.
3. **Set the wireless channels and IDs of sender unit and receiver unit to the same**
   For example, if the sender unit channel is set to 7, then the receiver unit channel needs to be 1 as well. You can also use the wireless sync function to set the channels and ID to the same quickly.
4. **Take Picture**
   Each receiver unit fires at the set flash ratio.

Wireless Stroboscopic Flash Shooting with Multi Flash

1. **Set the Sender Unit to Wireless Multi Flash**
   Click the "Sender" icon onto the sender unit' LCD panel to enter sender settings. Slide the screen down to make the "Multi" icon appears and click to turn it on, then slide up to make the wireless multi flash parameters appear.
2. **Set the Flash Output, Number of Flashes and Flash Frequency of the Wireless Multi Flash**
   Click the"-" or"+" icon can adjust the flash output, slide the number in front of "Times" can adjust the number of flashes, slide number in front of "Hz" can adjust the flash frequency.
3. **Set the Receiver Unit**
   Click the "Receiver" icon onto the sender unit' LCD panel to enter receiver settings.
4. **Set the Wireless Channels and IDs of Sender Unit and Receiver Unit to the Same**
   For example, if the sender unit channel is set to 1, then the receiver unit channel needs to be 1 as well.
5. **Turn On/Off the Wireless Multi Flash of Receiver Unit Group**
   The wireless multi flash of receiver unit A/B/C/D/E can be turned on or off directly on the sender unit.

 The parameters of receiver unit can be directly set on the sender unit on the condition that channels and IDs of them are set to the same.

Other Applications

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.

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.

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.
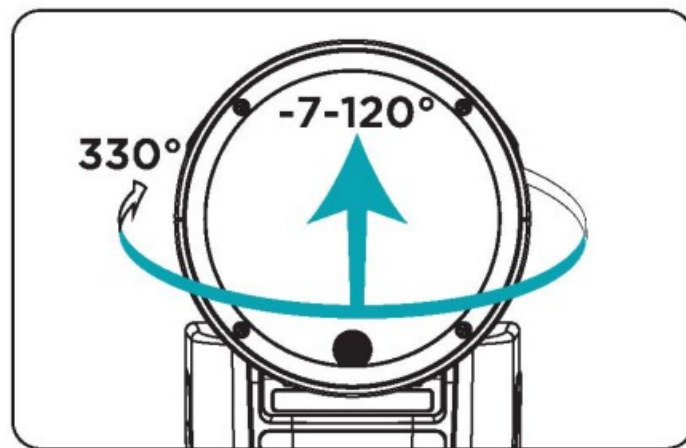
To set the bounce direction, hold the flash head and turn it to a satisfying angle.

- 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.

Low Battery Warning

If the battery power is low, the <▭> icon will turn red. Please replace or charge the battery immediately.
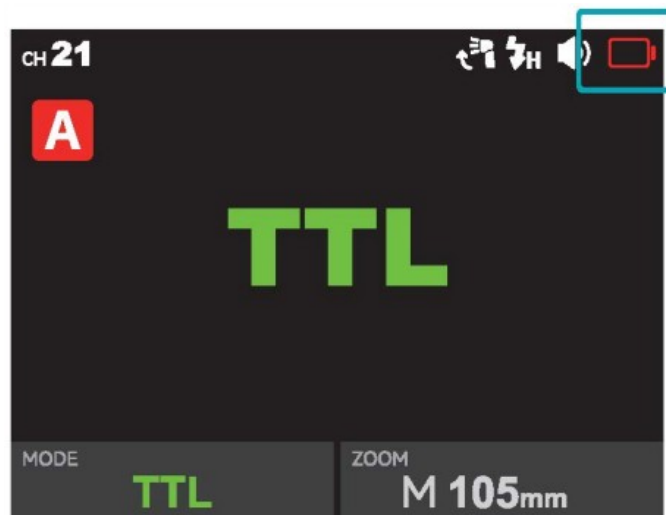
Control with the Camera's Menu

If the flash is attached to a 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.

Number of Flashes	
Flash Firing	On/Off
TTL Balance	Ambience priority / Standard / Flash priority
TTL Metering	Evaluative (Face priority) / Evaluative / Average
Continuous Flash Control	TTL shooting every time / 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	

- 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.

Protection Functions

Overheat Protection

- To avoid overheating and deteriorating the flash head, do not fire more than 70 continuous flashes in fast succession at 1/1 full power. After 70 continuous flashes, allow a rest time of at least 10 minutes.
- If you fire more than 70 continuous 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 70 minutes, and the flash unit will then return to normal.
- When the over-temperature protection is started, < 🔦 > is shown on the LCD display.

Number of flashes that will activate Overheat protection:

Number of Flashes / Focetal Length / Flash Power	28mm	35mm	50mm	70mm	80mm	105mm
1/1	70	75	80	90	100	100
1/2	106	114	120	134	150	150
1/4	215	231	240	273	300	300
1/8	300	300	300	300	300	300
1/16	1200	1200	1200	1200	1200	1200
1/32	3500	3500	3500	3500	3500	3500
1/64						
1/128						
1/256						

Number of flashes that will activate Overheat protection in HSS mode:

Power Output Level	Number of Flashes
1/1	60
1/2 (+0.l-+0.9)	70
1/4 (+0.l-+0.9)	
1/8 (+0.l-+0.9)	
1/16 (+0.l-+0.9)	
1/32 (+0.l-+0.9)	
1/64 (+0.l-+0.9)	
1/128 (+0.l-+0.9)	
1/256 (+0.l-+0.9)	

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.

Technical Data

Model	FPLFX100
Compatible Cameras	Mirrorles/DSLR Cameras
Power (1/1 output)	100Ws
Flash Coverage	• Auto zoom (flash coverage is set automatically to match the lens focal length and image size)
	•Manual zoom (28 – 105mm)

	•Swinging/tilting flash head (bounce flash): 0 to 330° horizontally and -7° to 120° vertically.
Flash Duration	1/300s – 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), 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
Controllable Receiver Groups	A, B, C, D, E
Transmission Range (approx.)	100m
Channels	32: 01-32
ID	OFF/01-99
Modeling Flash	Fired with camera's depth-of-field preview button.
Auto Focus Assist Beam	
Effective Range (approx.)	Center: 0.6-10m / 2.0-32.8feet
	Periphery: 0.6-5m / 2.0-16.4feet
LED Modeling Lamp	
Power	2W
Color Temperature	3300K ±200 K
Power Supply	
Built-in Lithium Battery	7.2V / 2980mAh
Recycle Time	Approx. 1.7 seconds. LED indicator will light up when the flash is ready.
Full Power Flashes	Approx. 400
Power Saving	Provide standby and auto off functions.
Sync Triggering Mode	Hot shoe, 2.5 mm sync cord
Dimension	
WxHxD	2.81″ x 2.99″ x 8.11″
Net Weight Without Battery	≈ 496g
Net Weight With Battery	≈ 616g

*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.
- < ↯ > or < ↯H> 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 < ↯H> 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.
- 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 28 and 105mm, which fits medium – format cameras.

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.

Warning
Operating Frequency: 2412.99 MHz – 2464.49 MHz
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**

📍 Flashpoint, 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.

WWW.FLASHPOINTLIGHTING.COM
Scan to join our Instagram community for product tips, Inspirations, and more.

FLASHPOINT

Documents / Resources

FLASHPOINT FPLFXIOO TTL Round Head Flash [pdf] Instruction Manual
FPLFXlOO TTL Round Head Flash, FPLFXlOO, TTL Round Head Flash, Round Head Flash, Head Flash

References

- **User Manual**