

PIXAPRO®
ST-III+
TTL-T 
2.4GHz Wireless Flash Trigger

PIXAPRO® LTD.

50 Popes Lane,
Oldbury,
West Midlands,
B69 4PA

Tel: 0121 552 3113

Web: www.essentialphoto.co.uk

E-mail: info@essentialphoto.co.uk

Company Registration No. 07601334

705-X2TZ00-00

Made In China



Instruction Manual



Contents

02	Foreword	
03	Warning	
04	Names of Parts	
	Body	
	LCD Panel	
06	Battery	
	Installing Batteries	
	Battery Level Indication	
07	Setting the Flash Trigger	
	Power Switch	
	Automatically Enter Power Saving Mode	21
	Power Switch of AF Assist Beam	22
	Channel Settings	24
	Wireless ID Settings	25
	Mode Settings	26
	Output Value Settings	26
	Flash Exposure Compensation Settings	27
	Multi Flash Settings (Output Value, Times and Frequency)	28
	Modeling Lamp Settings	
	ZOOM Value Settings	
	Shutter Sync Settings	
	Buzz Settings	
	Sync Socket Settings	
	SHOOT Function Settings	
	C.Fn: Setting Custom Functions	
15	Using the Flash Trigger	
	As a Wireless Camera Flash Trigger	
	As a Wireless Outdoor Flash Trigger	
	As a Wireless Original Flash Trigger	
	As a Flash Trigger	
	with 3.5mm Sync Cord Jack	
	Connect to Smartphone through Bluetooth	
21	Compatible Smartphone Models	
22	Compatible Flash Models	
24	Compatible Camera Models	
25	Technical Data	
26	Restore Factory Settings	
26	Firmware Upgrade	
27	Attentions	
28	Caring for Flash Trigger	

X Foreword

Thanks for your purchase of this ST-III Plus-O wireless flash trigger. This wireless flash trigger is suitable for using Olympus & Panasonic cameras to control PiXAPRO flashes with ONE system e.g. camera flash, outdoor flash, and studio flash. Featuring multi-channel triggering, stable signal transmission, and sensitive reaction, it gives photographers unparalleled flexibility and control over their strobist setups. The flash trigger applies to hotshoe-mounted Olympus & Panasonic series cameras, as well as the cameras which have PC sync sockets. With ST-III Plus-O wireless flash trigger, high speed synchronization is available for most of camera flashes in the market which support TTL. The max flash synchronization speed is up to 1/8000s*.

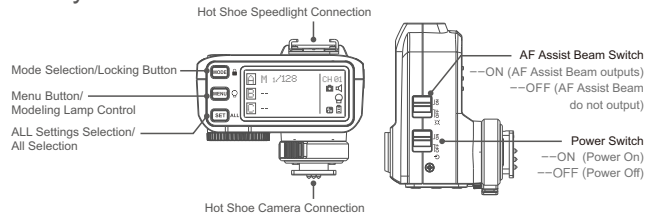
*: 1/8000s is achievable when the camera has a max camera shutter speed of 1/8000s.

Warning

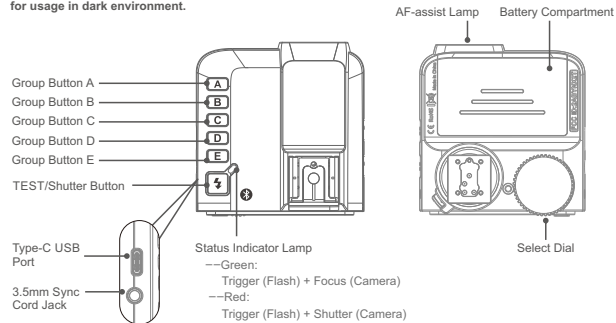
- ⚠ Do not disassemble. Should repairs become necessary, this product must be sent to an authorized maintenance center.
- ⚠ Always keep this product dry. Do not use in rain or in damp conditions.
- ⚠ Keep out of reach of children.
- ⚠ Do not use the flash unit in the presence of flammable gas. In certain circumstance, please pay attention to the relevant warnings.
- ⚠ Do not leave or store the product if the ambient temperature reads over 50°C.
- ⚠ Turn off the flash trigger immediately in the event of malfunction.
- ⚠ Observe precautions when handling batteries
 - Use only batteries listed in this manual. Do not use old and new batteries or batteries of different types at the same time.
 - Read and follow all warnings and instructions provided by the manufacturer.
 - Batteries cannot be short-circuited or disassembled.
 - Do not put batteries into a fire or apply direct heat to them.
 - Do not attempt to insert batteries upside down or backwards.
 - Batteries are prone to leakage when fully discharged. To avoid damage to the product, be sure to remove batteries when the product is not used for a long time or when batteries run out of charge.
 - Should liquid from the batteries come into contact with skin or clothing, rinse immediately with fresh water.

Names of Parts

• Body

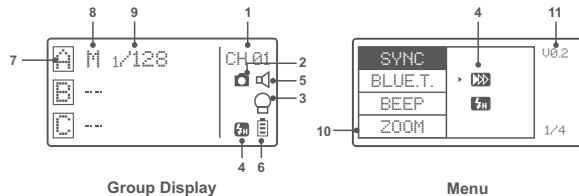


Note: All the buttons have backlight, which is convenient for usage in dark environment.



X Names of Parts

• LCD Panel



1. Channel (32) 2. Camera Connection 3. Modeling Lamp Master Control
 4. High-Speed/Rear Curtain Sync 5. Sound 6. Battery Level Indication
 7. Group 8. Mode 9. Power 10. ZOOM Value 11. Version

X Battery

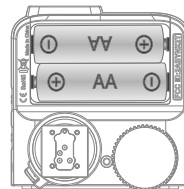
AA alkaline batteries are recommended.

• Installing Batteries

As shown in the illustration, slide the battery compartment lid of the flash trigger and insert two AA batteries separately.

• Battery Indication

Check the battery level indication on the LCD panel to see the remaining battery level during the usage.



Battery Level Indication	Meaning
3 grids	Full
2 grids	Middle
1 grid	Low
Blank grid	Low battery, please replace it.
Blinking	< 2.5V The battery level is going to be used out immediately (please replace new batteries, as low power leads to no flash or flash missing in case of long distance).

The battery indication only refers to AA alkaline batteries. As the voltage of Ni-MH battery tends to be low, please do not refer to this chart.

X Setting the Flash Trigger

• Power Switch

Slide the Power Switch to ON, and the device is on and status indicator lamp will not reveal.

Note: In order to avoid power consumption, turn off the transmitter when not in use.

• Automatically Enter Power Saving Mode

1. The system will automatically enter standby mode after stop operating the transmitter over 60 seconds. And the displays on the LCD panel disappear now.
2. Press any button to wake up. If the flash trigger is attached to the hot shoe of Olympus & Panasonic camera, half press the camera shutter can also wake the system up.

Note: If do not want to enter power saving mode, press the <MENU> button to enter C.Fn custom settings and set STBY to OFF.

• Power Switch of AF Assist Beam

Slide the AF-assist beam switch to ON, and the AF lighting is allowed to output.

The AF assist beam will be lighted when attaching the flash trigger to the camera. And the AF assist beam will be off in camera firing.

• Channel Setting

1. Short press the <MENU> button and choose CH to set the channel value.
2. Turn the select dial to choose the appropriate channel. The channel value will be confirmed after exiting the menu.
3. This flash trigger contains 32 channels which can be changed from 1 to 32. Set the transmitter and the receiver to the same channel before usage.

X Setting the Flash Trigger

• Wireless ID Settings

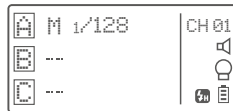
Change the wireless channels and wireless ID to avoid interference for it can only be triggered after the wireless IDs and channels of the master unit and the slave unit are set to the same.

Press the <MENU> button to enter C.Fn ID. Press the <SET> button to choose OFF channel expansion shutdown, and choose any figure from 01 to 99.

Note: It can only be used when the slave units have the wireless ID settings functions. If they do not have, please set the ID to OFF.

• Mode Setting

1. After pressing the group button to select one group, press the <MODE> button and all the current group's mode will be changed by the order of TTL/M/--.



2. In normal situation, press the <MODE> button to switch the multi-group mode to MULTI mode. Press the group selection button and then press the <MODE> button can set the MULTI mode to ON or OFF.



X Setting the Flash Trigger

• Output Value Settings

In the M mode

1. Press the group button to choose the group, turn the select dial, and the power output value will change from Min to 1/1 in 0.3 stop increments. Press the <SET> button to confirm the setting.
2. Press <ALL> button to choose all groups' power output value, turn the select dial, and all groups' power output value will change from Min to 1/1 in 0.3 stop increments. Press <ALL> button again to confirm the setting.

Note: Min. refers to the minimum value that can be set in M or Multi mode. The minimum value can be set to 1/128 0.3, 1/256 0.3, 1/128 0.1, 1/256 0.1, 3.0(0.1) and 2.0(0.1) according to C.Fn-Min. For most of camera flashes, the minimum output value is 1/128 and cannot be set to 1/256. However, the value can change to 1/256 when using in combination with PiXAPRO strong power flashes e.g. AD600, etc.

• Flash Exposure Compensation Settings

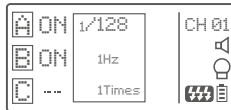
In the TTL mode

Press the group button to choose the group, turn the select dial, and the FEC value will change from -3 to ~3 in 0.3 stop increments. Press the <SET> button to confirm the setting.

X Setting the Flash Trigger

• Multi Flash Settings (Output Value, Times and Frequency)

1. In the multi flash (TTL and M icon are not displayed).
2. The three lines are separately displayed as power output value, Hz(flash frequency) and Times(flash times).
3. Press the <SET> button and turn the Select Dial to change the power output value from Min. to 1/4 in integer stops.
4. Press the <SET> button again and choose Hz to change flash frequency. Turn the select dial to change the setting value.
5. Press the <SET> button again and choose Times to change flash times. Turn the select dial to change the setting value.
6. Until all the amounts are set. Or during any value setting, short press the <SET> button to exit the setting status.
7. In the multi flash setting submenu, short press the <MODE> button to return to main menu when no values are blinking.



Note: As flash times are restricted by flash output value and flash frequency, the flash times cannot surpass the upper value that permitted by the system. The times that transported to the receiver end are a real flash time, which is also related to the camera's shutter setting.

X Setting the Flash Trigger

• Modeling Lamp Settings

1. Long press the <MENU> button for 2 seconds to control the ON/OFF of the modeling lamp.

• ZOOM Value Settings

Short press the <MENU> button to enter the ZOOM menu. Short press the <SET> button and turn the select dial, and the ZOOM value will change from AUTO/24 to 200. Choose the desired value and back to the main menu.

Note: The flash's ZOOM should be set to Auto (A) mode before responding.



• Shutter Sync Settings

1. **H** High-speed sync: short press the <MENU> button to enter the SYNC menu. Choose high-speed sync icon and **H** is displayed on the LCD panel.

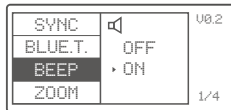
2. Press OK button on Olympus camera or MENU button on Panasonic camera to set second-curtain mode. And set camera shutter after **2nd-C** mode is displayed.



X Setting the Flash Trigger

• Buzz Settings

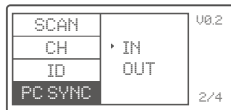
Press the <MENU> button to enter C.Fn BEEP and press the <SET> button. Choose ON to turn on the BEEP while OFF to turn off it. Press the <MENU> button again to back to the main menu.



• Sync Socket Settings

1. Press the <MENU> button to enter C.Fn SYNC and press the <SET> button to choose IN or OUT. Press the <MENU> button again to back to the main menu.

- 1.1 When choosing IN, this sync socket will enable ST-III Plus T-O to trigger flash.
- 1.2 When choosing OUT, this sync socket will send trigger signals to trigger other remote control and flash.

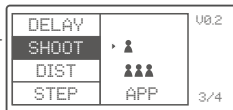


Setting the Flash Trigger

• SHOOT Function Settings

Press the <MENU> button to enter C.Fn SHOOT.

Press the <SET> button to choose one-shoot or multi-shoots, and press the <MENU> button again to back to the main menu.



One-shoot: When shooting, choose one-shoot. In the

M and Multi mode, the master unit only sends triggering signals to the slave unit, which is suitable for one person photography for the advantage of power saving.

Multi-shoots: When shooting, choose multi-shoots, and the master unit will send parameters and triggering signals to the slave unit, which is suitable for multi person photography. However, this function consumes power quickly.

APP: Only send triggering signal when camera is shooting (control the flash's parameters by smartphone APP).

Setting the Flash Trigger

• C.Fn: Setting Custom Functions

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

Custom Function	Function	Setting Signs	Settings and Description
SYNC	Shutter sync setting		Front curtain
			High speed
BLUE.T.	Bluetooth status setting	OFF ON	Off On
BEEP	Beeper	ON	On
		OFF	Off
ZOOM	ZOOM setting	24	AUTO/24-200
SCAN	Scan the spare channel	OFF	Off
		START	Start to find the spare channel
CH	Wireless	01	01-32
ID	Channel setting Wireless ID	OFF	Off
		01-99	Choose any figure from 01-99 (the old version flashes cannot use this function temporarily)
PC SYNC	Sync cord jack	IN	Trigger ST-III Plus-O to fire flash
		OUT	Output signal to trigger other remote control and flash
DELAY	Delay setting	OFF	Off
		0.1ms-9.9ms	Set the firing delay in high-speed sync
SHOOT		One-shoot	Only send triggering signals in the M & Multi mode when camera is shooting
		All-shoot	Send parameters and triggering signal when camera is shooting (suitable for multi person photography)
	APP	APP	Only send triggering signal when camera is shooting (control the flash's parameters by smartphone APP)
DIST	Triggering distance	0-30m	0-30m triggering
		1-100m	1-100m triggering

Setting the Flash Trigger

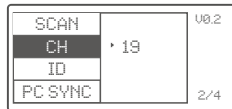
Custom Function	Function	Setting Signs	Settings and Description
STEP	Power output value	1/128(0.3)	The minimum output is 1/128(change in 0.3 step)
		1/256(0.3)	The minimum output is 1/256(change in 0.3 step)
		1/128(0.1)	The minimum output is 1/128(change in 0.1 step)
		1/256(0.1)	The minimum output is 1/256(change in 0.1 step)
		3.0(0.1)	The minimum output is 3.0(change in 0.1 step)
GROUP	Group	2.0(0.1)	The minimum output is 2.0(change in 0.1 step)
		5 (A-E)	5 groups(A/B/C/D/E)
STBY	Sleep	3 (A-C)	3 groups(A/B/C)
		60sec	60 seconds
LIGHT	Backlighting time	30min	30 minutes
		60min	60 minutes
		OFF	--
		12sec	Auto off in 12 seconds
LCD	Contrast ratio of LCD panel	OFF	Always off
		ON	Always lighting
		-3+3	The contrast ration can be set as integral number from -3 to +3

Using the Flash Trigger

1. As a Wireless Camera Flash Trigger

Take Li-ion580 II O as an example:

1.1 Turn off the camera and mount the transmitter on camera hotshoe. Then, power on the flash trigger and the camera.



Using the Flash Trigger

- Short press the <MENU> button to set channel, group, mode and parameters (refers to the contents of "Setting the Flash Trigger").
- Turn on the camera flash, press the <Z> wireless setting button and the <P> wireless icon and <SLAVE> slave unit icon will be displayed on the LCD panel. Press the <CH> button to set the same channel to the flash trigger, and press the <Gr> button to set the same group to the flash trigger (Note: please refer to the relevant instruction manual when setting the camera flashes of other models).
- Press the camera shutter to trigger and the status lamp of the flash trigger turns red synchronously.



2. As a Wireless Outdoor Flash Trigger

Take CITI600 Manual as an example:

- Turn off the camera and mount the transmitter on camera hotshoe. Then, power on the flash trigger and the camera.
- Short press the <MENU> button to set channel, group, mode and parameters (refers to the contents of "Setting the Flash Trigger").
- Power on the outdoor flash and press the <Z> wireless setting button and the <P> wireless icon will be displayed on the LCD panel. Long press the



X Using the Flash Trigger

<GR/CH> button to set the same channel to the flash trigger, and short press the < GR/CH> button to set the same group to the flash trigger (Note: please refer to the relevant instruction manual when setting the outdoor flashes of other models).

- 2.4 Press the camera shutter to trigger and the status lamp of the flash trigger turns red synchronously.

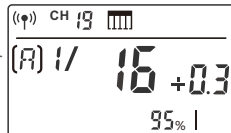
X Using the Flash Trigger

3. As a Wireless Studio Flash Trigger

Take LUMI 400II as an example:

- 3.1 Turn off the camera and mount the transmitter on camera hotshoe. Then, power on the flash trigger and the camera.
- 3.2 Short press the <MENU> button to set channel, group, mode and parameters (refers to the contents of "Setting the Flash Trigger").
- 3.3 Connect the studio flash to power source and power it on. Synchronously press down the <GR/CH> button and <S1/S2>button and the <(Ⓢ)> wireless icon will be displayed on the LCD panel. Long press the <GR/CH> button to set the same channel to the flash trigger, and short press the < GR/CH > button to set the same group to the flash trigger (Note: please refer to the relevant instruction manual when setting the studio flashes of other models).
- 3.4 Press the camera shutter to trigger. And the status lamp of the camera flash and the flash trigger both turn red synchronously.

Note: As the studio flash's minimum output value is 1/32, the output value of the flash trigger should be set to or over 1/32. As the studio flash do not have TTL and stroboscopic functions, the flash trigger should be set to M mode in triggering.



Using the Flash Trigger

4. As a Flash Trigger with 3.5mm Sync Cord Jack


Operation method:

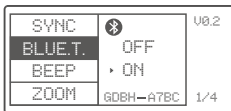
- 4.1 The connection method please refers to the contents of "As a Wireless Studio Flash Trigger" and "As a Wireless Shutter Release".
- 4.2 Set the transmitter end's sync cord jack as an output port. Operation: press the <MENU> button on the transmitter end to enter C.Fn settings. Then, set PC SYNC to OUT mode.
- 4.3 Press the shutter normally and the flashes will be controlled by sync cord jack's signal.



5. Connect to Smartphone through Bluetooth

Using method:

- 5.1 Short press the <MENU> Button to enter BLUE.T. to open the Bluetooth. The Bluetooth ID will displayed under the ON.
- 5.2 Search "Godox Photo" in iPhone's APP Store and download the APP. Or install the APP by scanning the QR Code with your smartphone.
- 5.3 Open the APP and choose .
- 5.4 Connect the transmitter to the responded Bluetooth ID and enter the password to match (the initial password is "000000").



"GodoxPhoto"

Using the Flash Trigger

5.5 Full match and back to APP main interface.

- 5.6 When started the Bluetooth function, the Bluetooth icon will be displayed on the transmitter's panel.
- 5.7 Set the channels of the slave flash and the transmitter to the same, and parameters e.g. slave flash mode, power value, modeling lamp and beep can be controlled on the APP of the smartphone.
- 5.8 Use the APP of the smartphone for shooting after setting all the parameters.

Note: When successfully connected the flash trigger and smartphone APP, the auto sleep of the flash trigger can be set to 30 min.



X Compatible Smartphone Models

This flash trigger can be used on the following Smartphone models:

iPhone 6S iPhone 6S Plus iPhone 7 Plus iPhone 7 iPhone 8 Plus

iPhone 8 iPhone 6 Plus iPhone 6 iPhone X

HUAWEI P9 HUAWEI P10 HUAWEI P10 Plus HUAWEI Mate 9 Pro

HUAWEI Mate 9 HUAWEI Mate 10 Pro HUAWEI Mate 10

HUAWEI P20 HUAWEI P20 Pro

Samsung galaxy S8 Samsung galaxy Note8 Samsung galaxy S9

1. This table only lists the tested Smartphone models, not all Smartphone. For the compatibility of other Smartphone models, a self-test is recommended.

2. Rights to modify this table are retained.

X Compatible Flash Models

















• Compatible Flash Models

Transmitter	Receiver	Flash	Note
ST-III Plus-O	-	CIT1600 series/CIT1400 series Hybrid360 TTL series PIKA200 series Li-ion580II series/Li-ion350II Series/ STORM II/ LUMI II KINO II+ series	
	PRO AC 2.4GHz	HYBRID360 Manual, RIKO400	The flashes with USB wireless port
		STORM / KINO / LUMI Series	Can only be triggered
ST-I 2.4GHz		Li-ion580 Manual	

Note: The range of support functions: the functions that are both owned by ST-III Plus-O and flash.

X Compatible Flash Models

- The relationship of PRO AC and ST-III Plus wireless systems:**

PRO AC 2.4 (Code Switch)								
ST-III + (Display Screen)	CH01	CH02	CH03	CH04	CH05	CH06	CH07	CH08
PRO AC 2.4 (Code Switch)								
ST-III + (Display Screen)	CH09	CH10	CH11	CH12	CH13	CH14	CH15	CH16

X Compatible Camera Models

This flash trigger can be used on the following Olympus & Panasonic series camera models:

Olympus: PEN-F, E-P3, E-P5, E-PL5, E-PL6, E-PL7, E-PL8, E-M1, E-M10II

Panasonic: DMC-G85, DMC-GH4, DMC-GF1, DMC-GX85, DMC-LX100,

DMC-FX2500GK, DMC-GH5

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

Technical Data

Model	ST-III Plus-O
Compatible cameras	Olympus & Panasonic cameras (TTL autoflash) Support for the cameras that have PC sync socket.
Compatible smartphone (sync flash in M mode)	iphone, Huawei, Samsung(see the compatible smartphone models for details)
Power supply	2*AA batteries
Flash Exposure Control	
TTL autoflash	Yes
Manual flash	Yes
Stroboscopic flash	Yes
Function	
High-speed sync	Yes
Flash exposure compensation	Yes, ± 3 stops in 1/3 stop increments
Flash exposure lock	Yes
Focus assist	Yes
Modeling lamp	Yes
Beeper	Yes
Wireless shutter	Control the beeper by the flash trigger The receiver end can control the camera shooting through the 3.5mm sync cord jack
ZOOM setting	Adjust the ZOOM value by the transmitter
TCM function	Transform the TTL shooting value into the output value in the M mode
Firmware upgrade	Upgrade through the Type-C USB port
Memory function	Settings will be stored 2 seconds after last operation and recover after a restart

Technical Data

Model	ST-III Plus-O
Wireless Flash	
Transmission range (approx.)	0-100m
Built-in wireless	2.4G
Modulation mode	MSK
Channel	32
Wireless ID	01-99
Group	5
Other	
Display	Large LCD panel, backlighting ON or OFF
Dimension/Weight	72x70x58mm/90g
2.4G Wireless Frequency Range	2413.0MHz-2463.5MHz
Max. Transmitting Power of 2.4G Wireless	5dbm

• Restore Factory Settings

Hold the MODE button and power the flash trigger on, and all the parameters will restore the factory settings.

• Firmware Upgrade

This flash trigger supports firmware upgrade through the Type-C USB port. Update information will be released on our official website.

- ❶ • USB connection line is not included in this product. As the USB port is a Type-C USB socket, please use Type-C USB connection line.
- As the firmware upgrade needs the support of PiXAPRO G3 software, please download and install the "PiXAPRO G3 firmware upgrade software" before upgrading. Then, choose the related firmware file.

X Attentions

1. Unable to trigger flash or camera shutter. Make sure batteries are installed correctly and Power Switch is turned on. Check if the transmitter and the receiver are set to the same channel, if the hotshoe mount or connection cable is well connected, or if the flash triggers are set to the correct mode.
2. Camera shoots but does not focus. Check if the focus mode of the camera or lens is set to MF. If so, set it to AF.
3. Signal disturbance or shooting interference. Change a different channel on the device.
4. Operating distance limited or flash missing. Check if batteries are exhausted. If so, change them.

The Reason & Solution of Not Triggering in PiXAPRO 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 lighten) and the flash is not under the state of over-heat protection or other abnormal situation.**
 - Please downgrade the flash power output. If the flash is in TTL mode, please try to change it to M mode(a preflash is needed in TTL mode).
3. **Whether the distance between the flash trigger and the flash is too close or not**
 - Please turn on the "close distance wireless mode" on the flash trigger (< 0.5m):
 - Please set the C.Fn-DIST 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(the flash trigger is recommended to use 1.5V disposable alkaline battery).

X Caring for Flash Trigger

- **Avoid sudden drops.** The device may fail to work after strong shocks, impacts, or excess stress.
- **Keep dry.** The product isn't water-proof. Malfunction, rust, and corrosion may occur and go beyond repair if soaked in water or exposed to high humidity.
- **Avoid sudden temperature changes.** Condensation happens if sudden temperature changes such as the circumstance when taking the transceiver out of a building with higher temperature to outside in winter. Please put the transceiver in a handbag or plastic bag beforehand.
- **Keep away from strong magnetic field.** The strong static or magnetic field produced by devices such as radio transmitters leads to malfunction.

X FCC Statement

A. 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.

B. Warning: Changes or modifications to this unit not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

C. 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.