

PIXAPRO®

ST-III

TTL Wireless Flash Trigger

For Olympus, Panasonic



Instruction Manual

PIXAPRO® LTD.

Unit 5 Sterling Park
Pedmore Road
Brierley Hill,
West Midlands,
DY5 1TB

Tel: +44 (0)121 552 3113
Web: www.essentialphoto.co.uk
E-mail: info@essentialphoto.co.uk

Company Registration No. 07601334

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Made in China

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English |

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X Foreword

Thanks for your purchase of this ST-III-O TTL wireless flash trigger.

This TTL wireless flash trigger only applies to Olympus and Panasonic cameras. It can also directly control flashes which have built-in PIXAPRO wireless ST-III system (e.g. Li-ion580 II O, Hybrid360 TTL, CITI600 TTL, CITI600 Manual, QuickerII, etc.). As to the flashes which do not have PIXAPRO wireless ST-III system (e.g. Li-ion580, Hybrid360 Manual, etc.), a Pro AC 2.4GHz or ST-I 2.4GHz receiver can be used in combination to achieve manual flash control. Featuring multi-channel triggering, stable signal transmission, and sensitive reaction, it gives photographers unparalleled flexibility and control over their strobist setups. ST-III-O can also connect to the cameras which have PC sync sockets. It supports high-speed sync function and 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.

X For Your Safety

To prevent damage to your product or injury to you or to others, read the following safety precautions in their entirety before using this device. Keep these safety instructions where all those who use this device will read them.

Failure to observe the precautions listed in this section could result in damage to the product.

The following icon indicates warnings that should be read before using this device in case of possible damage or injury.

▲ Do not disassemble or modify

Failure to observe this precaution could result in electric shock or product malfunction. Should the product break open as the result of a fall or other accident, remove the batteries and take the product to an authorized maintenance center for inspection.

▲ Keep dry

Do not handle with wet hands or immerse in or expose to water or rain. Failure to observe this precaution could result in fire or electric shock.

▲ Do not use in the presence of flammable gas

Failure to observe this precaution could result in explosion or fire.

▲ Keep out of reach of children

This device contains small parts which may pose a choking hazard. Consult a physician immediately if a child swallows any part of this device.

▲ Turn off the transceiver immediately in the event of malfunction

Should smoke or an unusual smell comes from this device, remove the batteries immediately in case of burning and take the device to an authorized maintenance center for inspection. Injuries could occur if it is further used.

▲ Do not expose to high temperature

Do not leave the device in a closed vehicle in the sun or in other areas subject to

X For Your Safety

extremely high temperature. Failure to observe this precaution could result in fire or damage to the casing or internal parts.

▲ Observe precautions when handling batteries

Batteries may leak or explode if improperly handled. Observe the following precautions when handling batteries for use in this device:

- 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.

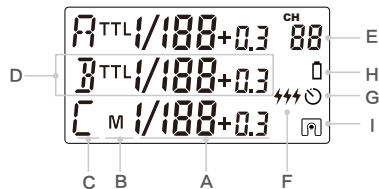
X Names of Parts

• Body Transmitter



X Names of Parts

Transmitter Panel



(A) Output Settings per Group in the M Mode; FEC Settings per Group in the TTL Mode
 (B) Mode Settings (C) Group (D) Currently Selected Group (Operation Method 2)
 (E) Channel Settings (F) Multi Mode Icon (G) Synchronization Delay Setting Icon
 (H) Low Battery Indicator (I) Single Contact Icon

X Battery

• Installing Batteries

As shown in the illustration, slide the battery compartment lid of the transmitter and receiver and insert two AA batteries (sold separately) separately.

• Low Battery Indication

When the battery power (2 AA batteries <2.4V) gets low, Status Indicator Lamp blinks quickly (blink cycle=0.5s). Please replace new batteries, as low power leads to no flash or flash missing in case of long distance.



X Using the Flash Trigger

! Note: To set ZOOM functions, please open the ZOOM functions on the camera flash.

The flash trigger features the following functions:

1. As a Wireless Flash Trigger

- 1.1 Mount the transmitter on camera hotshoe and turn it on before turning on the camera.
- 1.2 Set the transmitter and the receiver to the same channel by pressing Channel Setting Button.
- 1.3 Press the camera shutter button, and the flash will be triggered simultaneously. Status Indicator Lamp of transmitter turns red.



2. As a Wireless Flash Trigger with PC Sync Socket

- 2.1 Set the transmitter end and receiver end to the same channel and group.
- 2.2 The transmitter will control the flash on the receiver end to fire via using PC Sync Socket as input by default.
- 2.3 Press the camera shutter and use the PC Sync Socket's signal to control the flash.
- 2.4 PC Sync Socket can also be set as output. Long press the <CH/OK> Button of the transmitter until <Fn> is displayed on the panel. Then, set the value of C.Fn-03 to ou, and the PC Sync Socket is under output mode.



X Setting the Transmitter

• Power Switch

Slide the Power Switch to ON, and the device is on and Status Indicator Lamp will not blink.

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

• HSS High-speed Sync Switch

Slide the switch to ON or OFF to control the HSS high-speed sync's on or off.

If is ON, the group's mode setting icon will keep blinking.

• Channel Settings

1. Short press the <CH/OK> Button until the channel amount blinks.
2. Turn the Select Dial to choose the appropriate channel. Press the <CH/OK> Button again to confirm the setting.
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 Transmitter

• Mode Settings

1. Short press the <GR> Button and the selected group will blink. Click to choose downwardly and double-click to choose upwardly.
2. Short press the <MODE> Button and the selected groups' modes will be changed by the order of TTL/M/--(-- represents OFF, which means that the current group will not fire flashes in this mode).



• Group POWER / FEC Settings

1. Short press the <GR> Button and the selected group will blink. Click to choose downwardly and double-click to choose upwardly.
2. Turn the Select Dial to change the power or flash exposure compensation settings. When the current group is in the M mode, the power output value is changeable from 1/1 full power to Min. [Note 1] power in 0.3 stop increments. When the current group is in the TTL mode, the FEC amount is changeable from -3 to 3 in 0.3 stop increments. When the current group is in the -- mode (flash off), the amounts will not change.
3. Short press the <CH/OK> Button again to confirm the setting.



X Setting the Transmitter

[Note 1]

Min. refers to the minimum power output value that can be set in M/Multi mode. 1/128 or 1/256 can be set according to C.Fn-05.

The minimum power output value is 1/128 and cannot be set to 1/256 for most of camera flashes. However, the value can change to 1/256 when using in combination with PIXAPRO strong power flashes e.g. CITI600 TTL, etc.

• Multi Flash Group ON/OFF Settings

1. Open the multi flash in the C.Fn Custom Functions (set C.Fn-04 as 1).
2. Short press the <GR> button to select the group. Click to choose downwardly and double-click to choose upwardly.
3. Short press the <MODE> Button to change the mode of selected group.
4. The current group's mode will be changed by the order of on/-- (-- represents OFF, which means that the current group will not fire flashes in this mode).



X Setting the Transmitter

• Multi Flash Parameter Setting

1. Enter into multi flash mode before setting.
2. Press the <MODE> Button to enter multi flash parameter setting menu.
3. Then, P (output value), T (flash times) and H (flash frequency) will be displayed on the LCD panel.
4. Short press the <GR> Button to choose the settings. Turn the Select Dial to change the blinking setting amount. Continue to press the <GR> Button until all the amounts are set. Then, short press the <MODE> Button to exit.



! **Note:** As flash times are restricted by flash output value and flash frequency, it might get automatic adjustment. The times that transported to the receiver end are setting times, which is not related to the camera's shutter setting. To guarantee the normal times of stroboscopic times, please use the formula below to calculate the shutter speed.

$$\text{Number of Flashes} / \text{Firing Frequency} = \text{Shutter Speed}$$

• Group Settings

1. Long press the <GR> Button to set all the groups that in the same modes simultaneously.
2. The settings of the groups which are in the same mode with the current group will blink. Turn the Select Dial to change the settings.
3. If the current group is in the M mode, all the other groups which are in the M mode will change their power output value simultaneously. The power output value is changeable from 1/1 full power to Min. power in 0.3 stop increments, until one of the

X Setting the Transmitter

- group's setting turns to the maximum(1/1) or the minimum(Min.). If the current group is in the TTL mode, all the other groups which are in the M mode will change their FEC amount simultaneously. The FEC amount is changeable from -3 to 3 in 0.3 stop increments, until one of the group's setting turns to the maximum(3) or the minimum(-3). If the current group is in the -- mode (flash off), the amounts will not change.
4. Short press the <GR> Button again to confirm the setting.

• Test Flash

1. Press the <TEST> Trigger Button to see the whether flash will fire normally or not.
2. Fully press the <TEST> Trigger Button, and the Status Indicator Lamp turns red and the flash can be triggered.
3. The settings on the transmitter end will synchronize to the receiver end at the same time.




• Modeling Lamp Control

Double-click the <CH/OK> Button to power ON/OFF the modeling lamp.

X Setting the Transmitter



• Automatically Enter Power Saving Mode

1. The flash trigger will go into standby mode after the transmitter enter sleep mode, and the displays on the LCD panel will disappear.
2. Press any of the button (<TEST> fully pressed/<CH/OK>/<GR>/<MODE>) can wake up the flash trigger. If the transmitter is attached to the Olympus or Panasonic camera, half press the shutter can also wake up the system.
3. If the transmitter is set to single contact mode( is displayed), the system will not enter power saving mode.

• C.Fn: Setting Custom Functions

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

Note: Some icons will be displayed when setting the relevant custom functions to make users have a good understanding.

Custom Functions No.	Functions	Setting Signs	Settings and Description
C.Fn-00	Synchronization	00	OFF
	delay setting	1~100	Master flash synchronization delay N*100 us (synchronization delay icon  is displayed.)
C.Fn-01	Single contact mode	--	OFF
		on	ON (The single contact mode set icon  is displayed.) It is advisable to set the transmitter to single contact mode when using it to trigger the flash by PC cord or through camera's single contact.

X Setting the Transmitter

Custom Functions No.	Functions	Setting Signs	Settings and Description
C.Fn-02	Zoom setting	--	Zoom is off.
		20,24,28,35,50,70 80,105,135,200	Zoom (20/24/28/35/50/70/80/105/135/200 mm)
C.Fn-03	PC sync socket connects with camera /camera flash	in	PC sync socket connects with camera
		ou	PC sync socket connects with flash
C.Fn-04	Multi Flash	--	Multi flash OFF
		on	Multi flash ON
C.Fn-05	Minimum power output in M/Multi mode	1/128	The minimum power output in M/Multi mode is 1/128
		1/256	The minimum power output in M/Multi mode is 1/256
C.Fn-06	Number of groups	03	A/B/C
		05	A/B/C/D/E
C.Fn-07	Beep	--	ON
		on	OFF

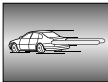
1. Press the <CH/OK> Button for 2 seconds or longer until <Fn> is displayed.
2. Select the custom function No.
 - * Turn the Select Dial to choose the Custom Function No.
3. Change the Setting.
 - * Press the <GR> Button until the custom function No. blinks.
 - * Turn the Select Dial to set the desired number. Pressing <GR> button will confirm the settings.
 - * Press <MODE> button to exit the C.Fn settings.

X Setting the Transmitter

• Setting the Camera




To trigger ST-III-O, please set camera's flash mode to fill flash, red eye reduction flash or rear curtain flash.

Olympus Camera side flash mode setting:

AUTO	Auto flash	The flash fires automatically in low light or backlight conditions.	
⚡	Fill-in flash	The flash fires regardless of the light conditions.	
⓪	Flash off	The flash does not fire.	
👁️/⚡👁️	Red-eye reduction flash	This function allows you to reduce the red-eye phenomenon. In S and M modes, the flash always fires.	
⚡SLOW	SLOW Slow synchronization (1st curtain)	Slow shutter speeds are used to brighten dimly-lit backgrounds.	
👁️SLOW	Slow synchronization (1st curtain)/Red-eye reduction flash	Combines slow synchronization with red-eye reduction.	
⚡SLOW2/ 2nd Curtain	Slow synchronization (2nd curtain)	The flash fires just before the shutter closes to create trails of light behind moving light sources.	
⚡FULL, ⚡1/4 etc.	Manual	For users who prefer manual operation. If you press (⓪) followed by the INFO button, you can use the dial to adjust the flash level.	

X Setting the Transmitter

Panasonic Camera side flash mode setting:

MENU →  [Rec] → [Flash] → [Flash Mode]		
⚡ ⓪	((Forced Flash On)) ((Forced On/ Red-Eye))*	The flash is activated every time regardless of the recording conditions. <ul style="list-style-type: none"> • Use this when your subject is back-lit or under fluorescent light. 
⚡S ⓪	((Slow Sync.)) ((Slow Sync./ Red-Eye))*	When taking pictures against a dark background landscape, this feature will slow the shutter speed when the flash is activated. Dark background landscape will appear brighter. <ul style="list-style-type: none"> • Use this when you take pictures of people in front of a dark background. • Using a slower speed can cause motion blur. Using a tripod can enhance your photos. 
⓪	((Forced Flash Off))	The flash is not activated in any recording conditions. <ul style="list-style-type: none"> • Use this when you take pictures in places where the use of flash is not permitted. • This item is available only when using an external flash.

X Setting the Transmitter

Panasonic Camera side flash mode setting:



Setting to the 2nd Curtain Synchro

Applicable modes:         

2nd curtain synchro activates the flash just before the shutter closes when taking pictures of moving objects such as cars using a slow shutter speed.

Select the menu.

MENU →  **[Rec]** → **[Flash]** → **[Flash Synchro]**

[1ST]	1st curtain synchro The normal method when taking pictures with the flash.	
[2ND]	2nd curtain synchro The light source appears behind the subject and picture becomes dynamic.	



Flash Mode

X Setting the Transmitter

• Selecting the Operation Method

Press the <CH/OK> Button for 5 seconds to switch the operation methods (Method 1/Method 2).

ST-III O Operation Method 1(by default)

TTL/M Mode		
Button	Operation	Function
CH/OK	Short press	(under normal status) Enter CH settings; (under settings)Confirm and back to normal status
	Double-click	Control the ON/OFF of modeling flash
	Long press for 2 seconds	Enter C.Fn custom settings
	Long press for 5 seconds	Switch the Operation Methods (Method 1/Method 2)
GR	Short press	Select the group downwardly
	Double-click	Select the group upwardly
	Long press for 2 seconds	Select all the group
MODE	Short press	Switch the flash mode of the group (TTL/M/OFF)
Select Dial		
Status	Function	
Normal	No (3 groups)/Turning(5 groups)	
Set the channel	Adjust the channel amount	
Set the group	Adjust the group's POWER/FEC amount	

X Setting the Transmitter

Multi Mode (C.FN-04-on)		
Button	Operation	Function
CH/OK	Short press	(under normal status) Enter CH settings; (under settings) Confirm and back to normal status
	Double-click	Control the ON/OFF of modeling flash
	Long press for 2 seconds	Enter C.Fn custom settings
	Long press for 5 seconds	Switch the Operation Methods (Method 1/Method 2)
GR	Short press	Select the group downwardly (under PTH status) Set power/times /hz
	Double-click	Select the group upwardly
MODE	Short press	Set the group's ON/OFF (under PTH status) Back to normal status (under normal status)Enter PTH status (P-power, T-times, and H-hz)
Select Dial	Status	Function
	Normal	No (3 groups)/Turning(5 groups)
	Set the channel	Adjust the channel amount
	Set the power	Adjust the power amount
	Set the flash times	Adjust the times amount
	Set the flash frequency	Adjust the frequency amount

X Setting the Transmitter

ST-III-O Operation Method 2

TTL/M Mode		
Button	Operation	Function
CH/OK	Short press	(under normal status) Enter CH settings; (under settings) Confirm and back to normal status
	Double-click	Control the ON/OFF of modeling flash
	Long press for 2 seconds	Enter C.Fn custom settings
	Long press for 5 seconds	Switch the Operation Methods (Method 1/Method 2)
GR	Short press	Set POWER/FEC amount
	Long press for 2 seconds	Select all the group
MODE	Short press	(under normal status) Switch the < ► Group>mode (TTL/M/OFF)
Select Dial	Status	Function
	Normal	Set < ► Group>
	Set the channel	Set the channel amount
	Set the group	Adjust the group's POWER/FEC amount

X Setting the Transmitter

Multi Mode (C.FN-04-on)		
Button	Operation	Function
CH/OK	Short press	(under normal status) Enter CH settings; (under settings) Confirm and back to normal status
	Double-click	Control the ON/OFF of modeling flash
	Long press for 2 seconds	Enter C.Fn custom settings
	Long press for 5 seconds	Switch the Operation Methods (Method 1/Method 2)
GR	Short press	(under PTH status) Set power/times /hz
MODE	Short press	(under normal)Control the <▶Group>'s ON/OFF (under PTH status) Back to normal status
	Long press for 2 seconds	Enter PTH status (P-power, T-times, and H-hz)
Select Dial	Status	Function
	Normal	No (3 groups)/Turning(5 groups)
	Set the channel	Adjust the channel amount
	Set the power	Adjust the power amount
	Set the flash times	Adjust the times amount
	Set the flash frequency	Adjust the frequency amount

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.

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 Technical Data

Model	ST-III-O
Compatible Cameras	Olympus and Panasonic cameras
	Support for the cameras that have PC sync socket.
Built-in remote system	2.4G Wireless transmission
Modulation mode	MSK
Power supply	2*AA batteries
Exposure Control	
Manual flash	Yes
TTL autoflash	TTL
Multi flash	Yes
TTL Control	
High-speed sync	Yes
Flash exposure compensation	Yes, ± 3 stops in 1/3 stop increments
Flash exposure lock	Yes
Focus assist	Manual open
Second curtain sync	Yes (Setting on the camera)
Wireless Flash	
Controllable slave group	Max. 5 groups (A/B/C/D/E)
Transmission range (approx.)	>100m
Channel	32

X Technical Data

Model	ST-III-O
Others	
Synchronization delay set	Yes (0~10ms, use 100us as the unit)
Beep	ON/OFF
Modeling flash	ON/OFF
ZOOM setting	Adjust the flash's focal length through the transmitter
Output interface	Transmitter: use a PC cord to input and output
Firmware upgrade	Use the Micro USB port to upgrade
Memory function	Settings will be stored for 2 seconds after last operation and recover after a restart
Dimension/Weight for Transmitter	72x75x52(mm)/90g

X Compatible Camera Models

This flash trigger unit can be used on the following cameras:

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**



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