PIXAPRO®

ST-III

TTL

TTL Wireless Flash Trigger Set

For Sony

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English

Contents

Foreword

Thanks for your purchase of this ST-III S TTL wireless flash trigger.
This TTL wireless flash trigger only applies to SONY cameras. It can also directly control flashes which have built-in Pixapro wireless ONE system (e.g. Li-ion580II S, HyBRID360 TTL , CITI600 TTL, CITI600 Manual, STORM II, etc.). As to the flashes which do not have Pixapro (e.g. Li-ion580, HyBRID360, 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 T-S 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.

⚠ 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℃.
- ⚠ 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

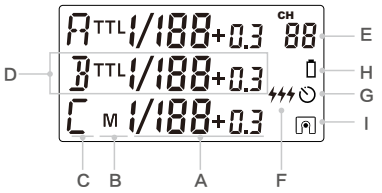
Transmitter

Names of Parts

Receiver

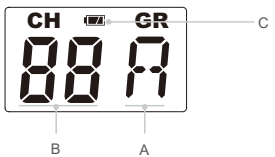
Names of Parts

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

Receiver Panel



(A) Group Setting **(B)** Channel Setting **(C)** Low Battery Indicator

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 <2.0V) 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.

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.

- **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.

- **Power Switch of AF Assist Beam**

  Slide the power switch to ON, and the AF lighting is allowed to output.

  When the camera cannot focus, the AF assist beam will turn on; when the camera can focus, the AF assist beam will turn off.

- **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.

- **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.

[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).

• 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 a real flash time, which is also related to the camera's shutter setting.

• 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

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.

• 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 CANON EOS 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 delay setting	00	OFF
		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.

Custom Functions No.	Functions	Setting Signs	Settings and Description
C.Fn-02	Zoom setting	AU	Changing with camera's Zoom value. Flashes' auto zoom functions should be turned on.
		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 ON/OFF	––	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
C.Fn-08	Send setting values forcibly	--	Only send after the setting values have been changed.
		on	Forcibly send the setting values before firing even though the values has not been changed.
C.Fn-09	APP mode	--	The transmitter is in the master mode, which can set the receiver's mode and output on the transmitter end.
		on	Open the APP mode and the transmitter can only trigger flashes. Only channel and custom settings can be adjusted and the LCD panel will display APP.

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.

• Setting the Camera

To trigger ST-III T-S, please set camera's flash mode to fill flash, auto flash, slow flash or rear curtain flash.

ST-III T-S cannot be triggered when the camera is set to wireless lighting mode (WL).

• Selecting the Operation Method

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

ST-III T-S 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

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

ST-III T-S 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

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

Setting the Receiver

• Channel Setting

1. Short press the <CH> Button and the channel amount will increase a step each time.
2. Long press the <CH> Button will enter quicker adjustment mode. The channel amount will increase fast in this mode.
3. Release the <CH> Button and the current channel amount is confirmed.
4. The channel amount will increase from 1 to 32. When the current channel is 32, press the <CH> Button again and the channel 1 will be displayed on the panel.

• Group Settings

1. Short press the <GR> Button and the group amount will increase a step each time.
2. Long press the <GR> Button will enter quicker adjustment mode. The group amount will increase fast in this mode.
3. Release the <GR> Button and the current group amount is confirmed.
4. The group amount will increase from A to E. When the current group is E, press the <GR> Button again and the group A will be displayed on the panel.

• Automatically Enter Power Saving Mode

1. The system will go into standby mode after the transmitter goes into standby mode. And the displays on the LCD panel disappear now.
2. To wake up the system, press the <TEST> Button or the <GR> Button. Fully press the <TEST> Trigger Button of the transmitter can also wake up the receiver's system. If the transmitter is attached to the SONY camera, half press the camera shutter can also wake up the system.

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.

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.

Technical Data

Model	ST-III S
Compatible Cameras	Sony cameras
	Support for the cameras that have PC sync socket.
Builted-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

Technical Data

Model	ST-III S
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 Receiver: use a 2.5mm sync cord to 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
Dimension/Weight for Receiver	70x65x47(mm)/70g

Compatible Camera Models

This flash trigger unit can be used on the following **Sony DSLR camera models:**

a9 (ILCE−9)	a77II	a7RII	a7R	a58	a99	ILCE6000L

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