

PIXAPRO®

ST-III

TTL

TTL Wireless Flash Trigger

For Canon



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Instruction Manual | English

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X Foreword

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

This TTL wireless flash trigger can be used with a transmitter and one or more receivers for studio flash, speedlite, and camera shutter. 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 Canon EOS series cameras, as well as the cameras which have PC sync sockets.

With ST-III C wireless flash trigger, high speed synchronization is available for most of camera flashes in the market which support E-TTL II. 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. 1/8000s is not achievable because some models of Canon EOS cameras have a max camera shutter speed of only 1/4000s.

⚠ 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.

X Names of Parts

• Body Transmitter



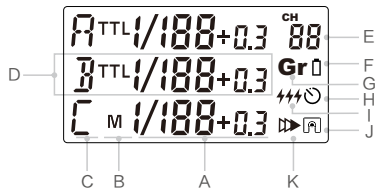
X Names of Parts

Receiver



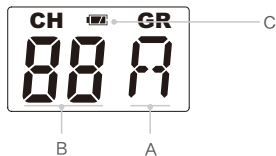
X Names of Parts

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 (E) Channel Settings
 (F) Low Battery Warning (G) GR Grouping Icon (H) Synchronization Delay Setting Icon
 (I) Multi Mode Icon (J) Single Contact Icon (K) Second Curtain Sync

Receiver Panel



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

X Names of Parts

• Accessories

1. Remote Cable(C1, C3)



2. Sync Cable



3. Sync Adapter



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 <2.0V) 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.



X Using the Flash Trigger

The flash trigger features the following functions:

1. As a Wireless Studio Flash Trigger

- 1.1 Mount the transmitter on camera hotshoe and turn it on before turning on the camera.
- 1.2 Connect the receiver to studio flash by Sync Cable (one end in 2.5mm Shutter Release Port of the receiver, the other end in sync port of studio flash) before turning on the studio flash.
- 1.3 Set the transmitter and the receiver to the same channel.
- 1.4 Press the camera shutter button, and the studio flash will be triggered simultaneously. Status Indicator Lamp of both transmitter and receiver units turn red.



2. As a Wireless Speedlite Trigger

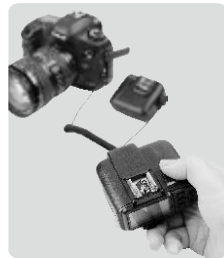
- 2.1 Mount the transmitter on camera hotshoe and turn it on before turning on the camera.
- 2.2 Mount the speedlite to Hot Shoe Speedlite Connection of receiver unit. Set the speedlite to M mode.
- 2.3 Set the transmitter and the receiver units to the same channel.
- 2.4 Press the camera shutter button, and the speedlite will be triggered simultaneously. Status Indicator Lamp of both transmitter and receiver units turn red.



X Using the Flash Trigger

3. As a Wired Shutter Release

- 3.1 Connect the receiver and the camera by Remote Cable (one end in receiver's Shutter Release Port, the other end in camera's shutter port) before turning on the camera.
- 3.2 Half press the <TEST> Trigger Button to focus. When fully press the <TEST> Trigger Button to shoot, the Status Indicator Lamp will turn red until releasing the button.



4. As a Wireless Studio Flash Trigger or Speedlite Trigger with PC Sync Socket

- 4.1 The connection method of the receiver can be found in As a Wireless Studio Flash Trigger and As a Wireless Speedlite Trigger section.
- 4.2 The transmitter will control the flash on the receiver end to fire via using PC Sync Socket as input by default.
- 4.3 Press the camera shutter and use the PC Sync Socket's signal to control the flash.
- 4.4 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.

• Power Switch of AF Assist Beam

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

• Channel Setting

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 Setting

1. Short press the <MODE> Button, and the mode of the current group will change.
2. To NON-GR grouping mode, all the groups' modes will be changed simultaneously by the order of TTL/M/Multi, in accordance with Ratio flash mode. To GR grouping mode, only the current group's mode will be changed by the order of TTL/M/--.



• Current Group Settings

1. Short press the <GR> Button to set the current group.
2. The current group settings will blink and turn the Select Dial to change the settings.
3. 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.
4. Short press the <GR> Button again to confirm the setting.



[Note 1]

Min. refers to the minimum power output value that can be set in M/Multi mode.

X1C's minimum power output value is 1/128 for most of camera flashes. However, the value can change to 1/256 when using in combination with Godox strong power flashes e.g. AD600, etc.

X Setting the Transmitter

• Multi Flash Settings (Times & Frequency)

1. In the multi flash (TTL and M icon are not displayed), long press the <MODE> Button to enter multi flash setting submenu.
2. The two lines are separately displayed as T (flash times) and H (flash frequency).
3. Short press the <GR> Button to choose the related setting amounts. Turn the Select Dial to change the blinking settings.
4. Continue to short press the <GR> Button, and the blinking settings on the next line can be changed.
5. Until all the amounts are set. Short press the <MODE> Button to exit the setting status.
6. In the multi flash setting submenu, short press the <MODE> Button to return to main menu.



• Multi Flash Settings (Output Value)

1. In the multi flash (TTL and M icon are not displayed), short press the <GR> Button to set the current group.
2. In multi flash mode, the power output will be changed from Min. to 1/4.



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 Transmitter

• Group Settings

1. Long press the <GR> Button to set all effective groups simultaneously.
2. The settings of all effective groups will blink. Turn the Select Dial to change the settings, until one of the group's setting turns to the maximum or the minimum and all settings of the effective groups will not change now.
3. If the current group is in the M mode, 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. If the groups in the M mode or TTL mode work together, the first FEC amount which up to the maximum or the minimum is considered as the limitation.
5. Short press the <GR> Button again to confirm the setting.

X Setting the Transmitter

• 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 on the receive end can be triggered.
3. Use the transmitter to control camera to focus or shoot, and the transmitter is connecting to the camera (do not connect to the flash) now.
4. In the standby mode, press the TEST Button can wake up the receiver.
5. 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.

• Setting GR Grouping Mode


1. Press the <MODE> Mode Button until Gr icon is displayed, which shows that GR grouping mode has been set.
2. To cancel GR grouping mode, press the <MODE> Button again until the Gr icon disappeared.



Note: GR mode can only be used normally when attaching to the CANON EOS cameras that issued after 2012. In the GR mode, multi flash cannot be set.



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 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. The icon "✓" indicates the flash custom function is supported but "0" indicates the custom function is not supported.

Custom Functions No.	Functions	Setting Signs	Settings and Description	Application
C.Fn-00	Synchronization	00	No delay	✓
	delay setting	1~100	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.)	

X Setting the Transmitter

Custom Functions No.	Functions	Setting Signs	Settings and Description	Application
C.Fn-01	Single contact mode	on	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	✓
C.Fn-02	Zoom setting	--	OFF	✓
		AU	Changing with camera's zoom value.	
		20,24,28,35,50,70,80,105,135,200	Zoom(20/24/28/35/50/70/80/105/135/200mm)	
C.Fn-03	PC sync socket as an input/output	In	PC sync socket connects with camera as an input	✓
		ou	PC sync socket connects with flash as an output	✓
C.Fn-04	Second curtain sync [Note 2]	--	Second curtain sync off	✓
		on	Second curtain sync on	
C.Fn-05	Minimum power output value in M/Multi mode	1/128	1/128	✓
		1/256	1/256	
C.Fn-06	Displayed groups	03	3 groups are displayed	✓
		05	5 groups are displayed	
C.Fn-07	Beeper ON/OFF	--	Turn off the beeper on the receive end	✓
		on	Turn on the beeper on the receive end	

X Setting the Transmitter

Custom Functions No.	Functions	Setting Signs	Settings and Description	Application
C.Fn-08	Send the setting value 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.	
Double-click the CH Button to turn on/off the modeling lamp of the receive end.				✓
Press the TEST Button to turn on the flash trigger. When the Status Indicator Lamp blinks two times, it means the effective remote distance is below 30 meters, thus the transmitter and receiver can communicate normally no matter how near they are.				✓

[Note 2]:

Second curtain sync cannot be set through the camera's external flash functions setting.

When using second curtain sync, the effective shutter speed range is from 1/30s to 30s. When shutter speed is set as buLb or is quicker than 1/30s, the settings are invalid.

After being turned on, second curtain sync is effective even though HSS has been set and the shutter speed range is from 30s to 1/30s.

After second curtain sync is turned on, synchronization delay settings are invalid.

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

• Wireless Shutter Release Mode

Half press the <TEST> Trigger Button to focus. Fully press the <TEST> Trigger Button, and the Status Indicator Lamp turns red. Now camera is ready to shoot. When releasing the button, the Status Indicator Lamp turns off.

• Setting the Camera

Use the External Flash Function on the camera to do the setting.

Note: 1. GR mode can only be used normally when attaching to the CANON EOS cameras that issued after 2012. If the camera model do not support GR grouping flash mode, NON GR mode will be changed automatically.

2. In the NON-GR mode, Ration Off is steadily set in the TTL mode while A:B C is steadily set in the M mode.

X 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.



X Setting the Receiver

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.



Note: If the transmitter in the same channel is set to NON-GR grouping mode, the effective groups of the receiver will change from A to C. Make sure the receiver's group is set to A/B/C. If the transmitter in the same channel is set to GR grouping mode, the effective groups of the receiver will change from A to E.

• 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 CANON EOS camera, half press the camera shutter can also wake up the system.

X Selecting the Operation Method

Transmitter:

ST-III C Operation Method 1 (by default)		
TTL/M Mode (In the GR Mode or NON-GR 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 POWER/FEC settings
	Long press for 2 seconds	Select all the group
MODE	Short press	(under normal status) Switch the <▶Group> mode (TTL/M/OFF in the GR mode; TTL/M/Multi in the NON-GR mode)
Select	Status	Function
	Normal	Set the <▶Group>
Dial	Set the channel	Adjust the channel amount
	Set the group	Adjust the group's POWER/FEC amount

X Selecting the Operation Method

Multi Mode (In the NON-GR 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	(under PTH status) Set times /frequency hz
MODE	Short press	(under normal status) Switch the <▶ Group> mode (TTL/M/Multi)
	Long press for 2 seconds	(under PTH status) Back to normal status Enter PTH status (T-times, and H-hz)
Select	Status	Function
	Normal	No (3 groups) /Turning (5 groups) [Note 3]
	Set the channel	Adjust the channel amount
	Set the Group	Adjust the group's power amount
Dial	Set the flash times	Adjust the times amount
	Set the flash frequency	Adjust the frequency amount

X Selecting the Operation Method

ST-III C 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	Select the group downwardly
	Double-click	Select the group upwardly
	Long press for 2 seconds	Select all the group
MODE	Short press	Switch the group's flash mode(TTL/M/OFF)
Select Dial	Status	Function
	Normal	No (3 groups) / Turning (5 groups) [Note 3]
	Set the channel	Set the channel amount
	Set the group	Adjust the group's POWER/FEC amount

X Selecting the Operation Method

Multi Mode (In the NON-GR 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 (under PTH status) Set times /hz
	Double-click	Select the group upwardly
MODE	Short press	(under normal) Switch the < ► group>'s mode(TTL/M/Multi) (under PTH status) Back to normal status
	Long press for 2 seconds	Enter PTH status(T- times, and H-hz)
Select Dial	Status	Function
	Normal	No (3 groups) /Turning (5 groups) [Note 3]
	Set the channel	Adjust the channel amount
	Set the Group	Adjust the group's power amount
	Set the flash times	Adjust the times amount
	Set the flash frequency	Adjust the frequency amount



X Selecting the Operation Method

[Note 3] There are 5 groups only in the GR mode while 3 groups in other modes.
Choose 3 or 5 groups by setting C.Fn-06 to 03 or 05.

Receiver:

Button	Operation	Function
CH	Short press	Select the channel amount upwardly
	Double-click	Select the channel amount downwardly
GR	Short press	Select the group amount upwardly
	Double-click	Select the group amount downwardly

X Attention

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.
5. No  or  is displayed on the camera viewfinder, though the camera is mounted on the transmitter and the power switch is turned on. This is resulted from unusual working of the transmitter. Check and make sure the flash trigger is well connected to the camera through Hot Shoe Camera Connection, then power the Transmitter on again.

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 C
Type	For Canon
Compatible Cameras	Canon EOS cameras (E-TTL II autoflash) 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	E-TTL II
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
Multi flash	Yes
Second curtain sync	Yes
Modeling flash	Yes, fired with camera's depth-of-field preview button
Wireless Flash	
Wireless function	In TTL mode, Ratio Off In M mode, Flash Ratio (A:B:C) Support for GR group flash, A~E group can set their flash mode separately.
Controllable slave group	In the GR grouping mode, 5 (A/B/C/D/E) In the Ratio grouping mode, 3 (A/B/C)

X Technical Data

Model	ST-III C
Type	For Canon
Transmission range(approx.)	>100m
Channel	32
Others	
Synchronization delay set	Yes (0~10ms, use 100us as the unit)
Wireless shutter release	Receiver can control camera shooting through 2.5mm sync port
ZOOM setting	Adjust the flash's focal length through the transmitter
LCD panel	Wide LCD panel, backlight on/off
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 2 seconds after last operation and recover after a restart
Dimension/Weight for Transmitter	72x75x52(mm)/100g
Dimension/Weight for Receiver	70x65x47(mm)/70g

X Compatible Camera Models

Canon EOS SLR Digital Cameras:

1Dx Mark II, 1Dx, 5Ds/5DsR, 5D Mark IV, 5D Mark III, 5D Mark II, 5D, 7D Mark II, 6D, 7D, 80D, 77D, 70D, 60D, 50D, 40D, 30D, 750D/760D, 100D, 800D, 700D, 650D, 600D, 550D, 500D, 450D, 400D DIGITAL (EOS Kiss Digital X), 350D DIGITAL, 1300D (Rebel T6), 1200D, 1100D, 1000D, M6, M5, M3,