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PIXAPRO®

ST-III

TTL

TTL Wireless Flash Trigger

For Nikon

Instruction Manual



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Foreword

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

This TTL wireless flash trigger can be used with a transmitter and one or more receivers for studio flash, speedlight, 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 Nikon DSLR series cameras, as well as the cameras which have PC sync sockets.

With ST-III wireless flash trigger, high speed synchronization is available for most of camera flashes in the market which support i-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.

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

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.

Names of Parts

•Body

Transmitter



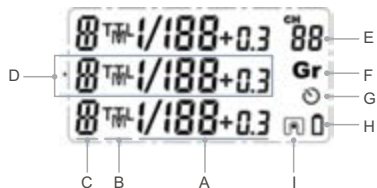
Names of Parts

Receiver



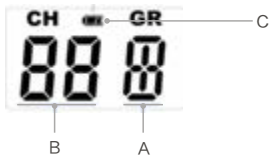
Names of Parts

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 (E) Channel Settings
 (F) GR Grouping 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

Names of Parts

• Accessories

1. Remote Cable (N1, N3)



2. Sync Cable



3. Sync Adapter



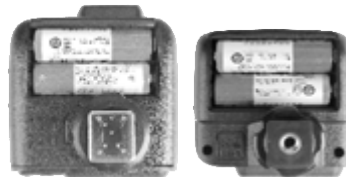
Battery

• 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

The flash trigger features the following functions:

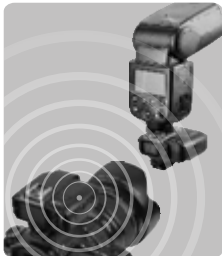
1. As a Wireless Studio Flash Trigger

- 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 Speedlight Trigger

- 2.1 Mount the transmitter on camera hotshoe and turn it on before turning on the camera.
- 2.2 Mount the speedlight to Hot Shoe Speedlight Connection of receiver unit. Set the speedlight 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 speedlight will be triggered simultaneously. Status Indicator Lamp of both transmitter and receiver units turn red.



Using the Flash Trigger

3. As a Wireless 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 Speedlight 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 Speedlight 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> Button of the transmitter until <Fn> is displayed on the panel. Then, set the value of Fn 03 to 1, and the PC Sync Socket is under output mode.



Using the Flash Trigger



1. To fire flashes normally, please set the camera flash which connects to the transmitter or receiver to i-TTL mode.
2. To set ZOOM functions, please open the ZOOM functions on the camera flash.

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> Button until the channel amount blinks.
2. Turn the Select Dial to choose the appropriate channel. Press the <CH> 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.



Setting the Transmitter

• Mode Setting

1. Short press the <MODE> Button, and the mode of the current group will change.
2. The current group's mode will be changed by the order of TTL/M/-- modes (-- means OFF, and the current group will not fire a flash in this mode).



• 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 1/128th 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.



Setting the Transmitter

• 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 1/128th power in 0.3 stop increments, until one of the group's setting turns to the maximum(1/1) or the minimum(1/128). 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.


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.



• 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>/<GR>/<MODE>) can wake up the flash trigger. If the transmitter is attached to the Nikon DSLR 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.

Setting the Transmitter

• 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.

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	Application
C.Fn-00	Synchronization delay setting	0	OFF	✓
		1~100	Master flash synchronization delay N*100 us (synchronization delay icon  is displayed.)	
C.Fn-01	Single contact mode	0	OFF	✓
		1	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.	
C.Fn-02	Zoom setting	AU	Changing with camera's zoom value, Flash's auto ZOOM functions should be turned on.	✓
		20,24,28,35,50,70,80,105,135,135+	Zoom(20/24/28/35/50/70/80/105/135/200mm)	

Setting the Transmitter

Custom Functions No.	Functions	Setting Signs	Settings and Description	Application
C.Fn-03	PC sync socket connects with camera/flash	0	PC sync socket connects with camera	✓
		1	PC sync socket connects with flash	

1. Press the <CH> 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.

• 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 Transmitter

• Setting the Camera

To achieve FP flash, set "e1: flash sync speed" to "1/250s (Auto FP)" in the Nikon camera setting to get a stable transition from standard sync mode to high speed sync mode. Do not use 1/320s (Auto FP).



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 C. When the current group is C, press the <GR> Button again and the group A will be displayed on the panel.



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.



• 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 NIKON DSLR 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.
5. No  > is displayed or  > is blinking 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.

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
Type	For Nikon
Compatible Cameras	Nikon DSLR cameras (i-TTL 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	i-TTL
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	No
Modeling flash	Yes, fired with camera's depth-of-field preview button
Wireless Flash	
Wireless function	Compatible with Nikon CLS (Creative Lighting System)
Controllable slave group	Max. 4 groups (M/A/B/C)
Transmission range(approx.)	>100m
Channel	32

Technical Data

Model	ST-III
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