Quadralite

NAVIGATOR X S
TTL Wireless Flash Trigger

For Sony

Instruction Manual

Contents

Foreword

Thank you for purchasing Quadralite Navigator X S.

Quadralite Navigator X S can be used as radio trigger/controller for speedlites and studio flashes or as a wireless camera shutter. Featuring multichannel triggering, stable signal transmission and sensitive reaction, it gives photographers unparalleled flexibility and control over their strobist setups.

Quadralite Navigator X S wireless flash trigger only applies to Sony cameras equipped with Multi Interface Shoe. It can directly control Quadralite flashes which have built-in Navigator X transceiver (e.g. Stroboss 60 S, Reporter 360 TTL, Atlas 600, Atlas 600 TTL, Pulse Pro X, etc.). As to the flashes which do not have Navigator X system such as Reporter 180/360, Rx400 Ringflash, etc., a Quadralite Navigator X USB receiver can be used in combination to achieve manual flash control and high-speed synchronization up to 1/8000s *.

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

Safety

Please, read this user manual carefully before using this device. The manual outlines all necessary information concerning safety, operation, and maintenance of the equipment. Please, follow all the instructions detailed in this manual to take full advantage of the device's capabilities.

Please, keep this manual in a place readily accessible for all users of the device.

⚠ **Do not attempt to dismantle or modify the device!**
Disassembly of the device's casing and necessary repairs can be carried out only by authorized Quadralite service.

⚠ **Shock and/or impact can damaged the device and its internal components!**
If the device's casing is damaged, for instance as a result of a fall, you are advised to immediately stop using the device and send it back to Quadralite servicing point, where the device will be examined and possibly fixed.

⚠ **Avoid dampness!**
Do not operate the device with wet hands, do not immerse it in water, and do not expose it to weather conditions (e.g. rain, snow, fog.)

⚠ **Do not expose the device to high temperatures!**
The device is adapted to operate in temperatures between 10 and 45 Celsius degrees.

⚠ **Batteries may leak or explode if improperly handled!**
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 batteries 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.

Safety

Batteries are prone to leakage when fully discharged. To avoid damage to the device, be sure to remove batteries when the device is not used for a long time or when batteries run out of charge. If liquid from the batteries come into contact with skin or clothing, rinse immediately with fresh water.

⚠ Do not use the device, when there is a risk of contact with flammable liquids or vapours, or in very dusty conditions.

⚠ The device is designed to be operated and stored in dry and well-ventilated closed spaces.

⚠ **Keep the device out of the 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.

⚠ **Do not fire flash directly into the eyes or in the short distance from them! Ignoring the above safety rule may cause temporary or permanent damage to the eyes.**

Ignoring the above safety rules may cause dangerous electric shock, user health damage, operation disturbances or permanent damage to the device.

The manufacturer is not liable for any damages resulting from improper operation of the equipment, therefore you should only use the device in compliance with this user manual.

Names of Parts

• Body
Transmitter

Battery Compartment

TEST Trigger Button

AF Assist Beam Switch
--ON(AF Assist Beam outputs)
--OFF(AF Assist Beam do not output)

Micro USB Port

Power Switch
--ON (Power On)
--OFF (Power Off)

PC Sync Socket

Single Hot Shoe Camera Flash Connection (only triggering)

Status Indicator Lamp
--LED Red Color Lamp

LCD Panel

CH/OK Channel Setting Button

GR Group Setting Button

Select Dial

MODE Mode Selection Button

Hot Shoe Camera Connection
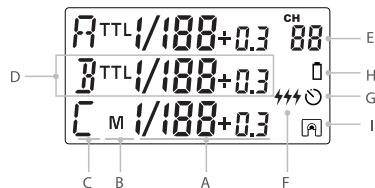
Names of Parts

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

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.

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.

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.
  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.

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.

[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 custom function 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 Quadralite Atlas 600 and Atlas 600 TTL flashes (or other future models).

- **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

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 Navigator X S please set camera's flash mode to fill flash, auto flash, slow flash or rear curtain flash.

Navigator X 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).

X1T-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

X1T-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

Troubleshooting

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.

Maintenance and Warranty

1. If the device's casing is damaged, for instance as a result of a fall, you are advised to immediately stop using the device and send it back to Quadralite servicing point, where the device will be examined and possibly fixed.
2. The manufacturer gives 1-year warranty for the device. You can find more information regarding warranty on Quadralite website.
3. Any modifications to the device are unacceptable and result in the immediate loss of the warranty.
4. All mechanical damages and damages resulting from improper use of the device are not covered by the warranty.
5. Device modifications made by the user or unauthorized technical service are unacceptable and result in the loss of all warranty claims.
6. Use a dry paintbrush to clean the device, and in the case of more stubborn marks try to use a slightly damp cloth. The device cannot be immersed in water, while its surface should not be cleaned with detergents. Only surface cleaning is allowed.

7. Before cleaning the device turn it off and disconnect the batteries.
8. The manufacturer is not liable for any damages resulting from improper operation of the equipment, therefore you should only use the device in compliance with this user manual.
9. The manufacturer reserves the right to change the product without prior notice.

Technical Data

Model	Quadralite Navigator X S
Compatible Cameras	Sony cameras
	Support for the cameras that have PC sync socket.
Builted-in remote system	2.4GHz 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
Second curtain sync	Yes (Setting on the camera)

Technical Data

Model	Navigator X S
Wireless Flash	
Controllable slave group	Max. 5 groups (A/B/C/D/E)
Transmission range (approx.)	>100m
Channel	32
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

Compatible Camera Models

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

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.