

# CITIBOOTTL

All-in-One TTL Outdoor Flash



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INSTRUCTION MANUAL English

#### Before using this product

Please read this user manual carefully in order to ensure your safety and the proper operation of this product. Keep for future reference.

#### Thank you for purchasing a PIXAPRO® product.

The PIXAPRO® CITI 600TTL is a revolutionary battery powered portable monolight that features true TTL and High-Speed sync functionality for Canon and Nikon cameras. The PIXAPRO® CITI 600 features a self-contained rechargeable Battery, meaning that the battery is attached directly to the body of the strobe, instead of having a separate battery pack. It also features a built-in 2.4GHz receiver compatible with the PIXAPRO Pro ST-III TTL flash trigger, which gives you access to TTL metering which will quickly provide you with perfect exposure without the need for manual metering.

#### The CITI600 TTL offers:

- Compatible wireless TTL system: Fully support Canon E-TTL II, Nikon i-TTL and other TTL systems in PIXAPRO® 2.4GHz wireless ST-III system. Workable as Slave unit in a wireless flash group.
- Dot-matrix LCD panel: with clear and convenient operation.
- •Built-in 2.4GHz wireless transmission: with all-in-one functions and 80 meters further transmission
- Studio quality light: up to 600Ws, GN 87 (m ISO 100, with standard reflector).
- External battery pack: professional lithium battery pack (lithium, 11.1V/8700mAh), 0.01-2.5s recycling and 500 full power flashes.
- Lightweight and portable even with power and accessories
- Wireless control: With built-in PIXAPRO® 2.4GHz wireless ST-III system to achieve TTL control. PIXAPRO® PRO AC flash trigger can also be used to wirelessly adjust flash power level and trigger the flash. CITI600 TTL has 3.5mm sync cord jack and PC sync socket to achieve various sync triggering mode.
- •Wide-range accessories: CITI600 TTL features a Bowens S-Type mount whose accessories includes softbox, beauty dishes, snoots, color gels, etc.
- Power adjusts from full power to 1/256 in 1/3 stop increments
- Consistent color temperature at 5600±200K over the entire power range
- 1/8000s high-speed sync flash, Focus-assist beam on/off & high-speed sync triggering
- The powerful and portable CITI600 TTL meets the demands of freelance commercial photographers, photojournalists, wedding and beach portraiture shooters, event and backpack photographers, photograph enthusiasts, etc.

## For Your Safety

- Always keep this product dry. Do not use in rain or in damp conditions.
- ▲ This product contains high-voltage electronic parts. Touching the high-voltage circuit inside it may result in electric shock. Do not disassemble. Should repairs become necessary, this product must be sent to an authorized maintenance center.
- ▲ Stop using this product if it breaks open due to extrusion, falling or heavy impact. Otherwise, electric shock may occur if you touch the electronic parts inside it.
- ▲ Do not fire the flash directly into the eyes (especially those of babies) within short distances. Otherwise visual impairment may occur. When taking pictures for babies, keep the flash unit at least 1 meter (3.3 feet) away
- from them. Using bounce flash to reduce light intensity is also recommended.
- ▲ Do not use the flash unit in the presence of flammable gases, chemicals and other similar materials. In certain circumstances, these materials may be sensitive to the strong light emitting from this flash unit and fire or electromagnetic interference may result.

Do not leave or store the flash unit if the ambient temperature reads over 50°C (e.g. in automobile). Otherwise the electronic parts may be damaged.

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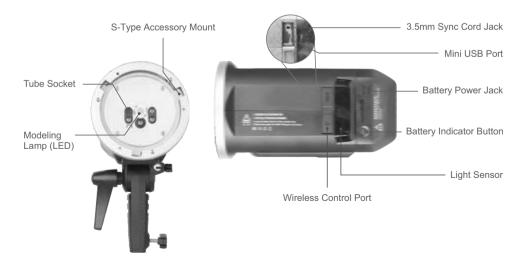
#### Conventions used in this Manual

- This manual is based on the assumption that both the camera and camera flash's power switches are powered on.
- Reference page numbers are indicated by "p.\*\*".
- The following alert symbols are used in this manual:
- ▲ The Caution symbol indicates a warning to prevent shooting problem.
- The Note symbol gives supplemental information.

## Name of Parts

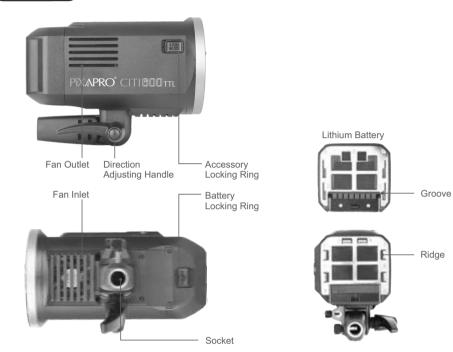
#### Body:





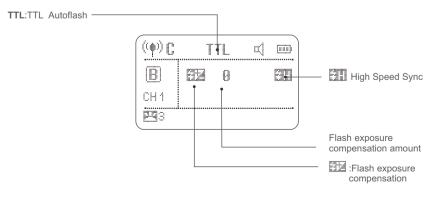
## Name of Parts





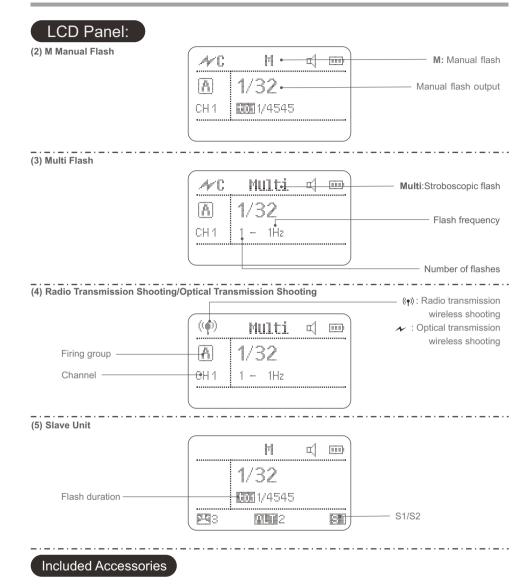
### LCD Panel:

(1) TTL Autoflash



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## Name of Parts



1. Flash tube 2. Lithium battery pack 3. Battery charger 4. Power cord 5. Lamp cover 6. Instruction manual



#### Separately Sold Accessories

CITI600 TTL can be used in combination with the following accessories sold separately, so as to achieve best photography effects: ST-III Wireless Flash Trigger, PRO AC trigger, Softbox, Beauty Dish, Fold Up Umbrella, Snoots, Light Stand, etc.







#### Installing Reflector (Other Accessories)



1. Press down the Accessory Locking Ring.

#### Attaching Flash Tube



1. Remove the reflector or other accessories from the flash head.

#### Adjusting Handle



is not pulled out, screw clockwise while unscrew anti clockwise.





1. When the Direction Adjusting Handle 2. The Direction Adjusting Handle's rotation angle should be restrained from 0 to 180 degrees below the flash body. Please pull out the Direction Adjusting Handle, adjust the appropriate angle, and manipulate the step 1 before colliding with the flash body.



2. Insert the reflector into the Accessory Mount and clock wise to lock it up.



- 2. Match the flash tube in the Tube Socket. Push the flash tube in until it is securely seated into the socket.



#### **Features**

- 1. This flash unit uses Li-ion polymer battery which has a long runtime. The battery can be charged-and-discharged up to approximately 500 times.
- 2. It is reliable and safe. The internal circuitry prevents against overcharging, overdischarging, power surges, and short circuit.
- 3. Take only 4 hours to fully charge the battery by using the standard battery charger.

#### Cautions

- ▲ Do not short circuit.
- ▲ Do not expose to rain or immerse into water. This battery is not water proof.
- ▲ Keep out of reach of children.
- ▲ No over 24 hours' continuous charging.
- ▲ Store in dry, cool, ventilated places.
- ▲ Do not put aside or into fire.
- ▲ Dead batteries should be disposed according to local regulations.
- A If the battery had ceased using for over 3 months, please make a full recharge.

#### Loading and Unloading the Battery Pack

Loading:

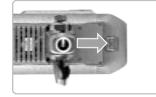




- Л Match the battery's groove with the main battery compartment's ridge.
- Push down the battery pack until it is locked.

0

Unloading:



Push the Battery Locking Ring to the right.



Push the battery pack upward 2 to unload it.

## **Battery**

#### **Battery Level Indication**

Attach the battery pack to the flash correctly. Be aware of the battery level by check the battery level indication on the LCD panel when using.

Battery Level Indication on the LCD Panel (Indicating battery level and management of the whole flash system)	LED Battery Level Indication on the Battery (Indicating battery level and management of non-loaded battery)	Meaning		
3 grids	1 red grid +3 green grids	Full battery		
2 grids	1 red grid +2 green grids	Medium battery		
1 grid	1 red grid +1 green grid	Low battery		
Blank grid	1 red grid	Lower battery, please recharge it.		
Blinking		The battery level is going to be used out immediately. And the flash will auto power off in 1 minute. Note: Please recharge the battery as soon as possible (within 10 days). Then, the battery can be used or be placed for long period.		

Note: The two indications are almost the same except of grids shift.

## **Power Management**

Long press the <ON/OFF> Power Switch for 2 seconds to control the on/off of the flash unit. Turn off the power pack if the flash unit will not be used for an extended period (approx. 1 hour).

Disabling Auto Power Off function is recommended when the flash is used off camera. (C.Fn-APO, Page 20)

## Wireless Flash Mode

CITI600 TTL can only be set as slave unit (receiver end). Press Wireless Selection Button to switch the two wireless modes: radio transmission and optical transmission. When using radio transmission, CITI600 TTL will automatically switch between Canon (C) and Nikon (N) system according to ST-III series transmitter. When using optical transmission, please set CITI600 TTL to Canon (C) or Nikon (N) before firing a flash.

Wireless Mode	Flash Mode		
OFF	M / Multi		
Radio Transmission	TTL / M / Multi		
Optical Transmission	TTL / M / Multi		

## Flash Mode — TTL Autoflash

This flash has three flash modes; TTL, Manual (M), and Multi (Stroboscopic). In TTL mode, the camera and the flash will work together to calculate the correct exposure for the subject and the background.

\* Press <MODE> Mode Selection Button and three flash modes will display on the LCD panel one by one with each pressing

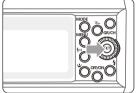
#### TTL Mode

Press <MODE > Mode Selection Button to enter TTL mode. The LCD panel will display <TTL>. \_\_\_\_\_

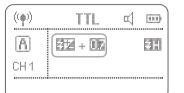
#### FEC: Flash Exposure Compensation

With FEC function, this flash can adjust from -3 to +3 in 1/3rd stops. It is useful in situations where minor adjusting of the TTL system is needed based on the environment.

#### Setting FEC:



Press <SET> Button and flash exposure compensation amount will be highlighted on the LCD panel.



- Set the flash exposure compensation **L** amount.
  - Turn the Select Dial to set the
  - amount • "0.3" means 1/3 step, "0.7" means 2/3

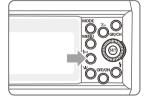
Press < SET > button again

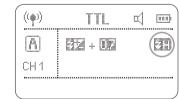
to confirm the setting.

- step.
- To cancel the flash exposure compensation, set the amount to "+0".

#### **чн** High-Speed Sync

High Speed Sync (FP flash) enables the flash to synchronize with all camera shutter speeds. This is convenient when you want to use aperture priority for fill-flash portraits.



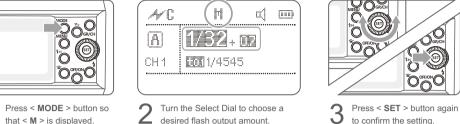


Press High Speed Sync Button so that < **\frac{1}{2}** H > is displayed.

- $\mathbf{O}$ Please use ST-III series transmitter
- If you set a shutter speed that is the same as or slower than the camera's maximum flash sync speed, < 🖬 > will not be displayed in the viewfinder.
  - With high-speed sync, the faster the shutter speed, the shorter the effective flash range.
  - To return to normal flash, press < **1** $\mu$  > button again. Then < **1** $\mu$  > will disappear.
  - Multi flash mode cannot be set in high-speed sync mode.
  - Over-heat protection may be activated after 50 consecutive high-speed sync flashes.

## Flash Mode — M: Manual Flash

The flash output is adjustable from 1/1 full power to 1/256th power in 1/3rd stop increments. To obtain a correct flash exposure, use a hand-held flash meter to determine the required flash output.



**Flash Output Range** 

The following table makes it easier to see how the stop changes in terms of f/stop when you increase or decrease the flash output. For example, when you decrease the flash output to 1/2, 1/2-0.3, or 1/2-0.7, and then increase the flash output to more than 1/2, 1/2+0.3, 1/2+0.7, and 1/1 will be displayed.

Figures displayed when reducing flash output level

1/1	1/1-0.3	1/1-0.7	1/2	1/2-0.3	1/2-0.7	1/4	
1/1	1/2+0.7	1/2+0.3	1/2	1/4+0.7	1/4+0.3	1/4	

Figures displayed when increasing flash output level

#### **Optical S1 Secondary Unit Setting**

In M manual flash mode, press <MENU> button to enter C.FN-SLAVE to choose S1 function, so that this flash can function as an optical S1 secondary flash with optic sensor. With this function, the flash will fire synchronously when the main flash fires, the same effect as that by the use of radio triggers. This helps create multiple lighting effects.

#### **Optical S2 Secondary Unit Setting**

Press < MENU > button to enter C.FN-SLAVE to choose S2 function, so that this flash can also function as an optical S2 secondary flash with optical sensor in M manual flash mode. This is useful when cameras have pre-flash function. With this function, the flash will ignore a single "preflash" from the main flash and will only fire in response to the second, actual flash from the main unit.

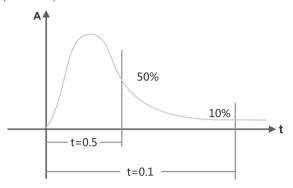
• S1 and S2 optical triggering is only available in M manual flash mode.



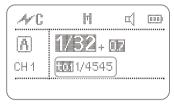
## Flash Mode — M: Manual Flash

#### **Display Flash Duration**

Flash duration refers to the length of time that from flash's firing to reach the half peak at maximum. The half peak at maximum is usually expressed as t=0.5. In order to provide the photographer with more concrete data, this product adopts t=0.1. The difference between t=0.5 and t=0.1 is shown in the following picture.

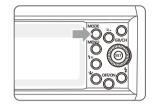


The flash duration will only be displayed on the LCD panel in M mode.



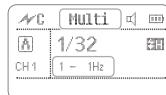
## Flash Mode — Multi: Stroboscopic Flash

With stroboscopic flash, a rapid series of flashes is fired. It can be used to capture a multiple images of a moving subject in a single photograph. You can set the firing frequency (number of flashes per sec. expressed as Hz), the number of flashes, and the flash output.

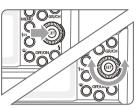


<MULTI> is displayed.

Press <MODE> button so that



2 Turn the Select Dial to choose a desired flash output.



- 3 Set the flash frequency and flash times
  - Press <SET> Button to select the flash times. Turn the Select Dial to set the number.
  - Press <**SET**> Button to select the flash frequency. Turn the Select Dial to set the number.
  - After you finish the setting, press <SET> button and all the settings will be displayed.

#### **Calculating the Shutter Speed**

During stroboscopic flash, the shutter remains open until the firing stops. Use the formula below to calculate the shutter speed and set it with the camera.

#### Number of Flashes / Flash Frequency = Shutter Speed

For example, if the number of flashes is 10 and the firing frequency is 5 Hz, the shutter speed should be at least 2 seconds.

- To avoid overheating and shotening the life of the flash head, do not use stroboscopic flash more than 10 times in succession. After 10 times, allow the camera flash to rest for at least 15 minutes. If you try to use the stroboscopic flash more than 10 times in succession, the firing might stop automatically to protect the flash head. If this happens, allow at least 15 minutes' rest for the camera flash.
- Stroboscopic flash is most effective with a highly reflective subject against a dark background.
  - Using a tripod and a remote control is recommended.
  - A flash output of 1/1 and 1/2 cannot be set for stroboscopic flash.
  - Stroboscopic flash can be used with "buLb".
  - If the number of flashes is displayed as "--", the firing will continue until the shutter closes or the battery is exhausted. The number of flashes will be limited as shown by the following table.

#### Maximum Stroboscopic Flashes:

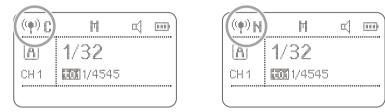
Flash Hz Output	1	2	3	4	5	6-7	8-9	10	11	12-14	15-19	20-50	60-100
1/4	7	6	5	4	4	3	3	2	2	2	2	2	2
1/8	14	14	12	10	8	6	5	4	4	4	4	4	4
1/16	30	30	30	20	20	20	10	8	8	8	8	8	8
1/32	60	60	60	50	50	40	30	20	20	20	18	16	12
1/64	90	90	90	80	80	70	60	50	40	40	35	30	20
1/128	100	100	100	100	100	90	80	70	70	60	50	40	40
1/256	100	100	100	100	100	90	80	70	70	60	50	40	40

## Wireless Flash Shooting: Radio (2.4G) Transmission

CITI600 TTL uses PIXAPRO® 2.4GHz wireless ST-III system, and has cross compatibility with other products in our range. As a slave unit, CITI600 TTL is automatically compatible with Canon E-TTL II system and Nikon i-TTL system according to the master unit. When receiving the master unit's signal, "C" or "N" will be displayed on the LCD panel.

Nikon cameras (use ST-III-N, etc.) and Canon cameras (use ST-III-C, etc.) can use one or more CITI600 TTL flashes simultaneously.

\*As a slave unit, CITI600 TTL can be controlled by the following master units: Hybrid360 ETTL, Hybrid360 ITTL ST-IIIC,ST-III-N, etc.



#### 1. Wireless Settings

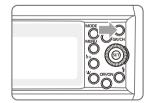
Press < ∠> Wireless Setting Button again until < ((♠)) > is displayed on the panel.



( (	((••))	_	MU	lti	đ	
	A	4	/3	2		
	H1	1		1Hz		

#### 2. Setting the Communication Channel

If there are other wireless flash systems nearby, you can change the channel IDs to prevent signal interference. The channel IDs of the master unit and the slave unit(s) must be set to the same.



Long press the **<GR/CH>** Button for 2 seconds so that channels ID is displayed on the LCD panel.



2 Turn the Select Dial to choose a channel ID from 1 to 32.

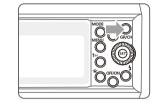


3 Press the **SET** button to confirm.

## Wireless Flash Shooting: Radio (2.4G) Transmission

#### 3. Setting the Communication Group

Short press the < GR/CH > Button to choose group ID from A to E.

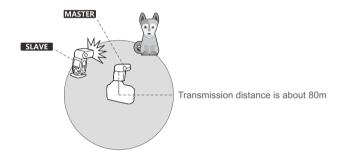




#### 4. Wireless Flash Shooting

Positioning and Operation Range (Example of wireless flash shooting)

• Autoflash Shooting with One Slave Unit

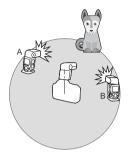


- Use the supplied mini stand to position the slave unit.
  - Before shooting, perform a test flash and test shooting.
  - The transmission distance might be shorter depending on the conditions such as positioning of slave units, the surrounding environment and whether conditions.

#### Wireless Multiple Flash Shooting

You can divide the slave units into two or three groups and perform TTL autoflash while changing the flash ratio (factor). In addition, you can set and shoot with a different flash mode for each firing group.

• Auto Shooting with Two Slave Groups



• Auto Shooting with Three Slave Groups



Wireless shooting using radio transmission has advantages over wireless shooting using optic transmission, such as being less affected by obstacles, and not having to point the slave unit's wireless sensor toward the master unit. The main functional differences are as follows:

Function	Radio Transmission	Optical Transmission		
Distance	80m (ST-III series transmitter)	Approx. 10m		
Channel	1~32	1~4		
Group	A/B/C/D/E	A/B/C		
To be disturbed	Hard	Easy		

## Wireless Flash: Optical Transmission

#### CITI600 TTL supports wireless flash functions and can be set as slave unit.

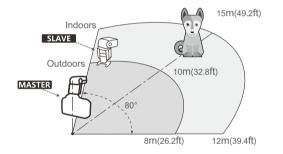
Choose Canon or Nikon optical wireless system through C. FN-REMOTE on the \*MENU list.

\*Compatible Canon optical wireless system: CITI600 TTL can receive wireless signals of Canon speedlites e.g. 580EXII, 600EX-RT and commanders of Canon cameras e.g. 7D/60D/600D.

\*Compatible Nikon optical wireless system: CITI600 TTL can receive wireless signals of Nikon speedlights e.g. SB-900, SB-910 and commanders of D7100/D7000/D800.

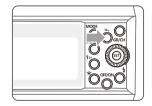
- You can set up one to five slave groups for TTL autoflash shooting. With TTL autoflash, you can easily create various lighting effects.
- Any flash settings (of flash exposure compensation, high-speed sync, FE lock, FEB, manual flash, Multi flash) on the master unit will be automatically sent to the slave units. So the only thing you need to do is to set the master unit to TTL mode without any operation for the slave units at all during the shooting.
- This flash can work in TTL autoflash, M manual flash, and Multi stroboscopic flash modes when set as a master unit.

#### **Positioning and Operation Range**



#### 1. Wireless Settings

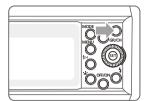
Press < Z >> Wireless Setting Button again until <



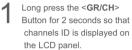


#### 2. Setting the Communication Channel

If there are other wireless flash systems nearby, you can change the channel IDs to prevent signal interference. The channel IDs of the master unit and the slave unit(s) must be set to the same.







that 2 Turn the Select Dial to choose a channel ID from 1 to 4.

3 Press the **SET**> button to confirm.

#### 3. Setting the Communication Group

Short press the < **GR/CH** > Button to choose group ID from A to C.

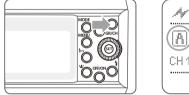


 Image: Weight of the state of the

The slave unit might be out of order or fire an unwanted flash due to the nearby fluorescent lamp or computer screen.

## C.Fn: Setting Custom Functions

Custom Function Signs	Functions	Setting Signs	Settings & Descriptions	Restrictions	
BEEP	Beeper	ON	ON	NO	
DELI	Deeper	OFF	OFF	NO	
		OFF	OFF		
SLAVE	S1/S2 mode selection	S1	S1 mode	M mode	
		S2	S2 mode		
		OFF	OFF		
			Temperature <45°: OFF	NO	
FAN	Fan working mode	AUTO	Temperature >45°: LOW FAN	NO	
			Temperature >60°: HIGH FAN		
		OFF	OFF		
SLEEP	Auto power off	1HR		NO	
		2HR	Auto power off without any	No	
		3HR	operation		
		12sec	Off in 12 sec.		
LIGHT	Backlighting time	OFF	Always off	NO	
		ON	Always lighting		
DELAY	Delay flash	OFF, 0.01~30S	Can be triggered as second curtain	M/Multi mode	
			Use UNITS in combination with		
UNITS	Total number of flashes	2~4	ALT: UNITS sets the total	M mode	
ALT	Triggering times		number of flashes; ALT sets the	M mode	
			triggering times before flash's firing		
LCD	LCD contrast	0~9	10 levels		
	Optical wireless	CANON	Canon	Optical	
REMOTE	remote system	NIKON	Nikon	wireless mode	
RESET	Paramotor resotting	NO		NO	
KESEI	Parameter resetting	YES	Reseting	NU	

1. Press < MENU > Button to enter C.Fn menu. The "Ver x.x" in the top-right corner refers to the software version. 2. Select the Custom Function Signs.

\* Turn the Select Dial to select the Custom Function Signs.

## Modeling Lamp

3. Change the Setting.

- \* Press<SET> button and the Setting Signs are highlighted.
- \* Turn the Select Dial to set the desired number. Press <SET> button will confirm the settings.
- 4. Exit C.Fn Menu.
- \* Press <**MENU**> Button to exit.

#### **Modeling Lamp**

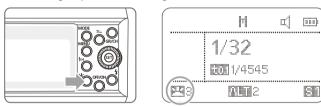
CITI600 TTL is equipped with a 10W LED modeling lamp which has 3 steps of light adjustment and two always lighting modes.

#### • Short press the Modeling Lamp Button to set the steps:

One step: 30% of power output; off in 30 minutes (prevent overheating) Two step: 60% of power output; off in 20 minutes (prevent overheating) Three step: 100% of power output; off in 10 minutes (prevent overheating)

• Long press the modeling lamp for 2 seconds to set modeling modes: 1.Always lighting

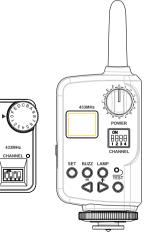
2.Modeling lamp auto off when firing.



## **Other Applications**

#### **Wireless Control Function**

The flash unit is built in with a Wireless Control Port so that you can wirelessly adjust the power level of the flash and the flash triggering. To control the flash wirelessly, you need a PRO AC Flash Trigger set (on-camera and on-flash). Insert its receiver end into the Wireless Control Port on the flash and insert the transmit end into the camera hot shoe. Settings made on the hotshoe-mounted transmit and receive ends will be wirelessly communicated to the flash. Then you can press the camera shutter release button to trigger the flash. You can also hold the transmit end at hand to control your off-camera flash.



For full instructions on the use of PRO AC series flash triggers, see its user manual.

#### Sync Triggering

The Sync Cord Jack is a  $\Phi$ 3.5mm plug. Insert a trigger plug here and the flash will be fired synchronously with the camera shutter.

## **Protection Function**

#### 1. Over-Heat Protection

- To avoid overheating and deteriorating the flash head, do not fire more than 100 continuous flashes in fast succession at 1/1 full power. After 100 continuous flashes, allow a rest time of at least 10 minutes.
- If you fire more than 100 continuous flashes and then fire more flashes in short intervals, the inner overtemperature protection function may be activated and make the recycling time over 10 seconds. If this occurs, allow a rest time of about 10 minutes, and the flash unit will then return to normal.
- •When the over-heat protection has initiated <u><u>W</u></u> is shown on the LCD display. Number of flashes that will activate over-heat protection:

Power Output Level	Number of Flashes
1/1	100
1/2 (+0.3,+0.7)	150
1/4 (+0.3,+0.7)	200
1/8 (+0.3,+0.7)	300
1/16 (+0.3,+0.7)	400
1/32 (+0.3,+0.7)	500
1/64 (+0.3,+0.7)	
1/128 (+0.3,+0.7)	1000
1/256 (+0.3,+0.7)	

Number of flashes that will activate over-heat protection in high-speed sync triggering mode:

Number of hashes that will activate over-heat protection in high-			
Power Output	Times		
1/1	50		
1/2 (+0.3,+0.7)	60		
1/4 (+0.3,+0.7)	75		
1/8 (+0.3,+0.7)	100		
1/16 (+0.3,+0.7)	150		
1/32 (+0.3,+0.7)	200		
1/64 (+0.3,+0.7)			
1/128 (+0.3,+0.7)	300		
1/256 (+0.3,+0.7)			

#### 2. Other Protections

 The system provides real-time protection to secure the device and your safety. The following lists prompts for your reference:

LCD Panel	Meaning
E1	A failure occurs on the recycling system so that the flash cannot fire.Please restart the flash unit. If the problem still exists, please send this product to a maintenance center.
E2	The system gets excessive heat. Please allow a rest time of 10 minutes.
E3	The voltage on two outlets of the flash tube is too high. Please send this product to a maintenance center.
E9	There are some errors occurred during the upgrading process. Please using the correct firmware upgrade method.

## **Technical Data**

Model		CITI600 TTL				
Wireless Slave Unit M	/lode	Radio transmission mode (compatibl	Radio transmission mode (compatible with Nikon & Canon)			
		Optical transmission mode (compatil	ble with Nikon & Canon)			
Flash Mode		Wireless off	M/Multi			
		Slave unit of radio transmission	TTL/M/Multi			
		Slave unit of optical transmission TTL/M/Multi				
Compatible Cameras	under	Nikon cameras, supporting i-TTL/M/RPT	flash (ST-III N as master unit, etc.)			
Radio Transmission (	as slave unit)	Canon cameras, supporting E-TTL II/M/R	PT flash (ST-III C as master unit, etc.)			
Guide No. (m ISO 10	0)	87 (m ISO 100, with standard reflecto	or)			
Flash Duration		1/220 to 1/10000 seconds (T0.1)				
POWER		600W				
Power Output		9 steps: 1/256~1/1				
Stroboscopic Flash		Provided (up to 100 times, 100Hz)				
Flash Exposure Com	pensation (FEC)	Manual. Feb: ±3 stops in 1/3 stop inc	crements.			
Sync mode		High-speed sync (up to 1/8000 seconds), f	irst-curtain sync, and second-curtain sync			
Delay Flash		0.01~30 Seconds				
Mask		$\checkmark$	·			
Fan						
Beeper						
Modeling Lamp (LED)		10W				
Optical Slave Flash		S1/S2				
Flash Duration Indica	ition					
Display		Dot-matrix panel				
•Wireless Flash (op	tical transmissior	and 2.4GHz transmission)				
Wireless Flash Funct	ion	Slave, Off				
Controllable Slave	Optical	3 (A, B, C)				
Groups	2.4GHz	5 (A, B, C, D, E)				
Transmission Range	Optical	Indoors: 12 to 15 m / 39.4 to 49.2 ft.				
(approx.)		Outdoors: 8 to 10 m / 26.2 to 32.8 ft.				
	2.4GHz	80m				
Channels	Optical	4 (1, 2, 3, and 4)				
	2.4GHz	32 (1~32)				
Power Supply		1				
Power Supply		Lithium battery pack (11.1V/8700mA	h)			
Full Power Flashes		500				
Recycle Time		Approx. 0.01-2.5s				
Battery Indicator						
Power Indication		Power off automatically after approx. 60 minutes of idle operation.				
Sync Triggering Mode		3.5mm sync line, wireless control port				
Color Temperature		5600±200k				
Dimensions		-				
Dimension (with batte	ery)	220x245x125 mm (flash tube & refle	ctor not included)			
Net Weight (with batt		2.69 Kg (flash tube & reflector not included)				

## Troubleshooting

If there is a problem, refer to this Troubleshooting Guide.

- The flash exposure is underexposed or overexposed.
- There was a highly reflective object (e.g. glass window) in the picture.
  →Use FE lock (FEL).
- You used high-speed sync.
- →With high-speed sync, the effective flash range will be shorter. Make sure the subject is within the effective flash range displayed.
- You used Manual Flash mode.
- $\rightarrow$ Set the flash mode to TTL or modify the flash output.

## Firmware Upgrade

This flash supports firmware upgrade through the USB port. Update information will be released on our official website.

USB cable is not included in this product. The USB port is a standard Micro USB socket. The type commonly used by Smartphones

## Maintenance

- Shut down the device immediately should abnormal operation be detected.
- Avoid sudden impacts and the product should be dedusted regularly.
- It is normal for the flash tube to be warm when in use. Avoid continuous flashes if unnecessary.
- Maintenance of the flash must be performed by our authorized maintenance department which can provide original accessories.
- This product, except consumables e.g. flash tube, is supported with a one-year warranty.
- Unauthorized service will void the warranty.
- If the product had failures or was wetted, do not use it until it is repaired by professionals.
- Changes made to the specifications or designs may not be reflected in this manual.