PiXAPRO[®]

GIO1 N

TTL Li-ion Round Head Speedlite for Nikon



INSTRUCTION MANUAL

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.

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Foreword

Thank you for purchasing this product.

This GIO1 N camera flash applies to Nikon series cameras and is compatible with i-TTL autoflash. With this i-TTL compatible flash, your shooting will become simpler. You can easily achieve a correct flash exposure even in complex light-changing environments. This camera flash features:

- With round flash head to achieve soft, even and more creative light effects. It has a 2W LED modeling lamp, which can be used off the camera.
- 76Ws power output at the max step. 81 steps from 1/1 to 1/128.
- Pro 2600mAh Li-ion Battery-max.1.5s recycle-480 full power pops.
- Fully support Nikon i-TTL camera flash. Workable as Master or Slave unit in a wireless flash group.
- Use dot-matrix LCD panel to make clear and convenient operations.
- With built-in 2.4GHz wireless remote system to support transmitting and receiving.
- Provided multiple functions, include HSS (up to 1/8000s), FEC, FEB. etc.
- Stable consistency and color temperature with good even lighting.
- Support with firmware upgrade.

Warning

- Always keep this product dry. Do not use in rain or in damp conditions.
- Do not disassemble. Should repairs become necessary, this product must be sent to an authorized maintenance center.
- ▲ Keep out of reach of children.
- Stop using this product if it breaks open due to extrusion, falling or strong hit. 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.
- ♠ Do not use the flash unit in the presence of flammable gases, chemicals and other similar materials. In certain circumstance, 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. Otherwise the electronic parts may be damaged.
- ▲ Turn off the flash unit immediately in the event of malfunction.

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GIO1N

Conventions used in this Manual

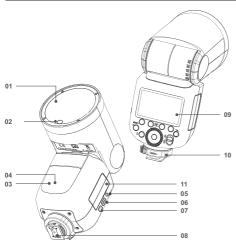
- This manual is based on the assumption that both the camera and camera flash's power switches are powered on.
- Reference page numbers are indicated by "p.**".
- The following alert symbols are used in this manual:

▲ The Caution symbol gives supplemental information.

The Note symbol indicates a warning to prevent shooting problem.

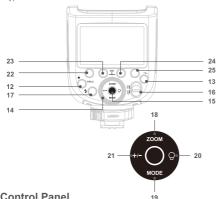
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Name of Parts



Body

- 01. Flash Head
- 02. LED Modeling Lamp(01~10)
- 03. Wireless Sensor
- 04. Focus Assist Beam
- 05. Sync Cord Jack
- 06. Type-C USB Port
- 07. Battery Remove Button
- 08. Hotshoe
- 09. LCD Panel
- 10. Hotshoe Fixing Buckle
- 11. Lithium Battery



Control Panel

- 12. <MENU>Flash Menu Button/Locking Button
- 13. <⁴ズ▶ >Wireless Selection Button
- 14. Select Dial
- 15. Set Button
- 16. ON/OFF Power Switch
- 17. < 7 > Test Button / Flash Ready Indicator
- 18. <ZOOM> Focus Length

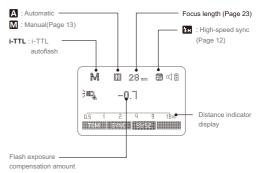
Setting

- 19. <MODE>Mode Selection Button
- 20. < ♀>Modeling Lamp Setting
- 21. <+/->Power Output
- 22. Function Button 1
- 23. Function Button 2
- 24. Function Button 3
- 25 Function Button 4

LCD Panel

(1)i-TTL Autoflash

Zoom: zoom display (Page 23)

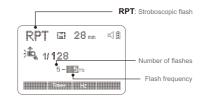


- The display will only show the settings currently applied.
 - The functions displayed above function buttons 1 to 4, such as SYNC and <M/A/B/C>, change according to settings' status.
 - When a button or dial is operated, the LCD panel illuminated.

(2)M Manual Flash



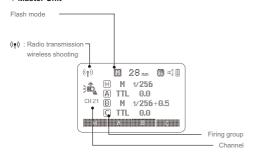
(3) RPT Flash



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(4) Radio Transmission Shooting

Master Unit



Slave Unit

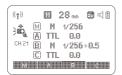


• LCD Panel in Three Modes

Attached to the Camera



• 2.4G Radio Transmission: As a Master Unit



• 2.4G Radio Transmission: As a Slave Unit



• What's in the Box of GIO1 N

- 1. Flash Unit 2. Lithium Battery
- 4. USB Line 5. Charger
- 6. Mini Stand

- 7. Protection Case
- 8. Instruction Manual

3. USB Battery Charger



Separately Sold Accessories

The product can be used in combination with the following accessories sold separately, so as to achieve best photography effects: ST-IV C & ST-III TTL wireless flash trigger, Round-Head accessory kit etc.



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Battery

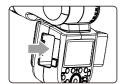
Features

- This flash unit uses Li-ion battery which has long runtime.
 The available charge-and-discharge times are 500.
- It is reliably safe. The inner circuit is against overcharge, overdischarge, overcurrent, and short circuit.
- Take only 3.5 hours to fully charge the battery by using the standard battery charger.

Cautions

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

Loading and Unloading the Battery



To unload the battery, hold down the battery remove button and push the battery downwardly to take it out.



According to the triangle sign on the battery pack, insert it into the compartment until a white knob locks the battery with a click sound.

Battery Level Indication

Make sure the battery pack is securely loaded in the flash. Check the battery level indication on the LCD panel to see the remaining battery level.

Battery Level Indication	Meaning		
3 grids	Full		
2 grids	Middle		
1 grid	Low		
Blank 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.		

LED Modeling Lamp

Press the Modeling Lamp Setting button to set the modeling lamp. Short press the Set Button to turn on or off the modeling lamp. When turning the modeling lamp on, turn the select dial to set its brightness. There are 10 levels(01~10) for choice.



Attaching to a Camera



Attach the Camera Flash.

 Rotate the hotshoe fixing buckle to the left and insert the camera flash into the camera's hotshoe.



Secure the Camera Flash.

 Rotate the hotshoe fixing buckle to the right until it locks up.



Detach the Camera Flash.

 Press the button and rotate the hotshoe fixing buckle to the left until it is loosened.

Power Management

Use ON/OFF Power Switch to power the flash unit on or off. Turn off if it will not be used for an extended period of time. Setting as a master flash, it will turn the power off automatically after a certain period (approx. 90 seconds) of idle use. Pressing the camera shutter halfway or pressing any flash button will wake up the flash unit. Setting as a slave flash, it will enter sleep mode after a certain period (adjustable, 60 minutes by default) of idle use. Pressing any flash button will wake it up.

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C.Fn DisablingAuto Power Off function is recommended when the flash is used off camera. (C.Fn-STBY, Page 24)

C.Fn Slave Auto Power Off Timer is set to 60 minutes by default. Another option "30 minutes" is available. (C.Fn-Sv STBY, Page 24)

Flash Mode — i-TTL Autoflash

This flash has three flash modes: i-TTL, Manual (M), and RPT (Stroboscopic). In i-TTL mode, the camera and the flash will work together to calculate the correct exposure for the subject and the background. In this mode, multiple TTL functions are available: FEC. HSS. second curtain sync. modeling flash.

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

i-TTL Mode

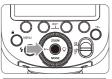
Press < MODE > Mode Selection Button to enter i-TTL mode. The LCD panel will display.

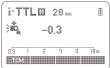
- Press the camera release button halfway to focus. The aperture and effective flash range will be displayed in the viewfinder.
- When the shutter button is fully pressed, the flash will fire a preflash that the camera will use to calculate exposure and flash output the instant before the photo is taken.

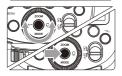
FEC: Flash Exposure Compensation

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 Function Button 2
Press the <+/-> button. The icon < ™ > and flash exposure compensation amount will be highlighted on the LCD panel.

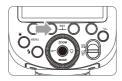
2 Set the flash exposure compensation amount.

- Turn the Select Dial to set the amount.
- "0.3" means 1/3 step,
 "0.7" means 2/3 step.
- To cancel the flash exposure compensation, set the amount to "+0".
- 3 Press Set Button again to confirm the setting.

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.

Choose high-speed sync \$H



- Set the flash sync speed to 1/320s (auto FP) or 1/250s (auto FP) in Nikon camera setting. Half press the shutter button and stup will be displayed on the LCD panel. Now the high-speed sync function gets started.
- Turn the camera dial, and the shutter speed can be set to or more than 1/250s.



- Check the shutter speed through the camera viewfinder to confirm whether the FP high-speed function is used. If the shutter speed is or over 1/250s, it means the high-speed is booted up.
- 6 If setting the flash sync speed to 1/320s (auto FP) or 1/250s(auto FP) in Nikon camera setting,
 Will always be displayed on the panel no matter what the actual shutter speed is
 - With high-speed sync, the faster the shutter speed, the shorter the effective flash range.
 - Set the flash sync speed to Non auto FP in Nikon camera setting. When half pressing the shutter, < ** will disappear.
 - Multi flash mode cannot be set in high-speed sync mode.
 - Over-temperature protection may be activated after 15 consecutive high-speed sync flashes.

Second-Curtain Sync

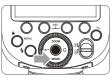
With a slow shutter speed, you can create a light train following the subject. The flash fires right before the shutter closes.

• In camera setting, choose REAR to achieve second curtain sync.

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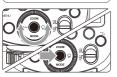
M: Manual Flash

The flash output is adjustable from 1/1 full power to 1/256th power in 1/10th stop increments. To obtain a correct flash exposure, use a hand-held flash meter to determine the required flash output.



Press < MODE > button so that < M > is displayed.





- Press the <+/-> button and turn the Select Dial to choose a desired flash output amount.
- Press Set Button again to confirm the setting.

Optic S1 Secondary Unit Setting

In M manual flash mode, press <\$1/\$2> button so that this flash can function as an optic 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.

Optic S2 Secondary Unit Setting

Press <\$1/\$2> button so that this flash can also function as an optic S2 secondary flash with optic 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.

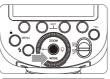


• S1 and S2 optic triggering is only available in M manual flash mode

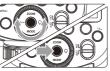
RPT: Stroboscopic Flash

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.







- Press < MODE > button so that < RPT > is displayed.
- Set the flash frequency and flash times.
 - Press the Function Button 2 <Times> to select the flash times. Turn the Select Dial to set the number.
 - Press the Function Button 3 <Hz> to select the flash frequency. Turn the Select Dial to set the number.
- Press the <+/-> button and turn the Select Dial to choose a desired flash output.
 - · 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 deteriorating 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.

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Maximum Stroboscopic Flashes:

Flash Hz output	1	2	3	4	5	6-7	8-9
1/4	8	6	4	3	3	2	2
1/8	14	14	12	10	8	6	5
1/16	30	30	30	20	20	20	10
1/32	60	60	60	50	50	40	30
1/64	90	90	90	80	80	70	60
1/128	90	90	90	90	90	90	80
1/256	90	90	90	90	90	90	80

Flash Hz output	10	20-50	60-100	
1/4	2	2	2	
1/8	4	4	4	
1/16	8 8		8	
1/32	20	16	12	
1/64	50	30	20	
1/128	70	40	40	
1/256	70	40	40	

Wireless Flash Shooting: Radio (2.4G) Transmission

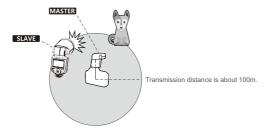
- You can set up five slave groups for TTL autoflash shooting.
 With TTL autoflash, you can easily create various lighting effects.
- Any flash settings for the slave units(auto flash, manual flash and stroboscopic flash) on the master flash in TTL mode will be automatically sent to the slave units. So the only thing you need to do is to set the master unit for each slave group without any operation for the slave units at all during the shooting.
- This flash can work in i-TTL /M /RPT/ OFF flash modes when set as a master unit.

Note:

- Even with multiple slave units, the ONE series flash trigger can control all of them via wireless.
- In this user manual, "master unit" refers to the camera flash on a camera and "slave unit" will be controlled by the master unit.

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.

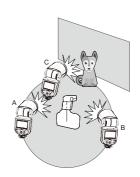
Wireless Multiple Flash Shooting

You can divide the slave units into two or three groups and perform i-TTL autoflash while changing the flash ratio (factor). In addition, you can set and shoot with a different flash mode for each firing group, for up to 5 groups.

Auto Shooting with Two Slave Groups



• Auto Shooting with Three Slave Groups



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1. Wireless Settings

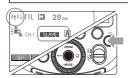
You can switch between normal flash and wireless flash. For normal flash shooting, be sure to set the wireless setting to OFF.

Master Unit Setting



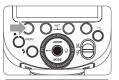
Press < >> button so that < ((**)) > is displayed on the LCD panel.

Slave Unit Setting



Press < > > button so that < < < > or < **SLAVE** > are displayed on the LCD panel.

2. Group Mode Selection



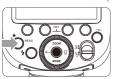
Short press the Function
Button 1 and <M> group
can be changed in
OFF/TTL/M. Choose one of
them as master unit's flash
mode.



2 Short press the <MODE> button to gain RPT mode.

3. Setting the Communication Channel

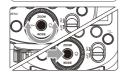
If there are other wireless flash systems nearby, you can change the channel IDs to prevent signal interference. The channel IDs of the master unit and the slave unit(s) must be set to the same.



Press <MENU> Button to enter C.Fn CH setting.



2 In C.Fn CH, turn the Select Dial to choose channel ID from 1 to 32.



Press the Set Button to confirm.

4. Wireless ID Settings

Change the wireless channels and wireless ID to avoid interference for it can only be triggered after the wireless IDs and channels of the master unit and the slave unit are set to the same.Press the <MENU> button to enter C.Fn ID. Press the Set Button to choose OFF channel expansion shutdown, and choose any figure from 01 to 99.



5. Scan the Spare Channel

To avoid the interference of using the same channel by others, this function can be used: enter the C.Fn settings and find the SCAN option. When setting it to START, it will scan from 1% to 100%. And the 8 spare channels will be displayed after the scan is completed.



6. i-TTL: Fully Automatic Wireless Flash Shooting

Using Automatic Wireless Flash with a Single Slave Unit



Master Unit Setting

- Attach a GIO1 N camera flash on the camera and set it as the master unit.
- M/A/B/C can be set as TTL mode independently.

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Slave Unit Setting

- Set the GIO1 N that to be controlled as the wireless slave unit.
- The slave unit can be set as A/B/C/D/E.

Check the communication channel.

• If the master unit and slave unit(s) are set to a different channel, set them to the same channel. (Page 17)

Position the camera and flashes.

 Position the camera and flashes as the picture shows.
 (Page 16)

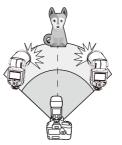
5 Check that the flash is ready.

 Check that the master flash ready indicator is lightened.

Check the flash operation.

- Press the master unit's Test Button < 4 >.
- Then, the slave unit will fire. If not, adjust the slave unit's angle toward the master unit and distance from the master unit.

Using Automatic Wireless Flash with Multiple Slave Units



When stronger flash output or more convenient lighting operation is needed, increase the number of slave units and set it as a single slave unit.

To add slave units, use the same steps as setting "automatic wireless flash with a single slave unit". Any flash group can be set (A/B/C/D/E).

When the number of slave units is increased and the master unit flash firing is ON, automatic control is implemented to make all groups of flashes fire the same flash output and ensure the total flash output up is to standard exposure.

- If the slave unit's auto power off function is workable, press the master unit's test button to power it on. Please note that test firing is unavailable during the camera's regular metering time.
 - The effective time of slave auto power off is changeable. (C.Fn-Sv STBY Page 27)

Using Fully Automatic Wireless Flash

The FEC and other settings that set on the master unit will also be appeared on the slave unit automatically. The slave unit does not need any operation. Use the following settings to make wireless flashes according to the same methods with normal flash shooting.

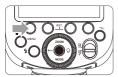
About Master Unit

Use two or more master units. By preparing several cameras that with master units flash attached, cameras can be changed in shooting while keeping the same lighting source (slave unit).

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7. M: Wireless Flash Shooting with Manual Flash

This describes wireless (multiple shooting) using manual flash. You can shoot with a different flash output setting for each slave unit (firing group). Set all parameters on the master unit.

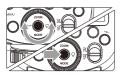


Setting the flash mode to



Setting flash output.1/2/3/4<M/A/B/C>

• Press Function Button 3 < Gr >. Turn the Select Dial to set the flash output of the groups. Press Set



Taking the picture.

· Each group fires at the set flash ratio.

Button to confirm.

Setting <M> Flash Mode

You can directly operate the slave unit to manually set the manual flash or stroboscopic flash.



Setting the slave unit.

Setting flash mode to <M>.

- Press < MODE > button so that <M> is displayed.
- · Set the manual flash output. (Page 13)

8. RPT: Wireless Flash Shooting with Manual Flash



Setting <RPT> stroboscopic flash.

- Press < MODE > button so that <RPT> is displayed.
- · Setting the stroboscopic flash. (Page 14)

Other Applications

Sync Triggering

The Sync Cord Jack is a Φ2.5mm plug. Insert a trigger plug here and the flash will be fired synchronously with the camera shutter.

Modeling Flash

If the camera has a depth-of-field preview button, pressing it will fire the flash continuously for 1 second. This is called modeling flash. It enables you to see the shadow effects on the subject and the lighting balance. You can fire the modeling flash during wireless or normal flash shooting.



 ▲ • To avoid overheating and deteriorating the flash head, do not fire the modeling flash for more than 10 consecutive times. If you fire the modeling flash 10 consecutive times, allow at least 10 minutes' break for the camera flash.

Auto Focus Assist Beam

In poorly-lit or low-contrast shooting environments, the built-in auto focus assist beam will automatically light on to make it easier for autofocus. The beam will light up only when autofocus is difficult and get out as soon as the autofocus becomes correct. If you want to turn off the auto focus assist beam, set the "AF" to "OFF" on the C.Fn settings.

 If you find the auto focus assist beam does not light up, this is because the camera has got a correct autofocus.

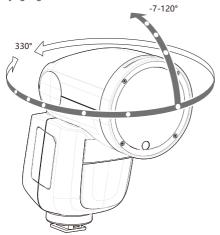
Position	Effective Range
Center	0.6~10m / 2.0~32.8 feet
Periphery	0.6~5m / 2.0~16.4 feet

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Bounce Flash

By pointing the flash head toward a wall or ceiling, the flash will bounce off the surface before illuminating the subject. This can soften shadows behind the subject for a more natural-looking shot. This is called bounce flash.

To set the bounce direction, hold the flash head and turn it to a satisfying angle.



- If the wall or ceiling is too far away, the bounced flash might be too weak and result in underexposure.
 - The wall or ceiling should be a plain, white color for high reflectance. If the bounce surface is not white, a color cast may appear in the picture.

ZOOM: Setting the Flash Coverage

The flash coverage can be set automatically or manually. It can be set to match the lens focal length from 28mm to 105mm.



In Manual Zoom mode, press the <ZOOM> button.

- Turn the Select Dial to change the flash coverage.
- If < A > is displayed, the flash coverage will be set automatically.
- If you set the flash coverage manually, make sure it covers the lens focal length so that the picture will not have a dark periphery.



Low Battery Warning

If the battery power is low, < > > will appear and blink on the LCD panel. Please replace the battery immediately.

C.Fn: Setting Custom Functions

The following table lists the available and unavailable custom functions of this flash.

C.Fn Custom Functions					
Custom Function Signs	Function	Setting No.	Settings & Description		
m/ft	Distance indicator	m	m		
		ft	feet		
AF	AF-assist beam	ON	ON		
		OFF	OFF		
STBY	Auto sleep setting	ON	ON		
		OFF	OFF		
Sv STBY	Slave auto power	60min	60min		
	off timer	30min	30min		
SCAN	Scan the spare	OFF	OFF		
	channel	START	Start to find the spare channel		
СН	Channel setting	01-32	Choose channels from 01-32		
ID	Wireless ID	OFF	Off		
		01-99	Choose any figure from 01-99		
BEEP	Beeper	ON	ON		
		OFF	OFF		
LIGHT	Backlighting time	12sec	Off in 12 sec.		
		OFF	Always off		
			Always lighting		
LCD	LCD contrast ratio	-3~+3	7 levels		

- 1. Press<MENU> Button until C.Fn menu is displayed. The "Ver x.x" in the top-right corner refers to the software version.
- 2. Select the Custom Function No.
 - Turn the Select Dial to select the Custom Function No.
- 3. Change the Setting.
 - Press Set Button and the Setting No. blinks.
 - Turn the Select Dial to set the desired number. Pressing Set Button will confirm the settings.
 - After you set the Custom Function and press <MENU> button, the camera will be ready to shoot.
- 4. In the C.Fn states, long press the "Clear" button for 2 seconds until "OK"is displayed on the panel, which means the values in C.Fn can be reset.

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Protection Function

1. Over-Temperature Protection

- To avoid overheating and deteriorating the flash head, do not fire more than 30 continuous flashes in fast succession at 1/1 full power. After 30 continuous flashes, allow a rest time of at least 10 minutes.
- If you fire more than 30 continuous flashes and then fire more flashes in short intervals, the inner over-temperature 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-temperature protection is started, is shown on the LCD display.

Number of flashes that will activate over-temperature protection:

Power Output Level	Number of Flashes			
1/1	30			
1/2 +0.7	40			
1/2 +0.3	50			
1/2	60			
1/4(+0.3,+0.7)	100			
1/8(+0.3,+0.7)	200			
1/16(+0.3,+0.7)	300			
1/32(+0.3,+0.7)	500			
1/64(+0.3,+0.7)	1000			
1/128(+0.3,+0.7)				
1/256(+0.3,+0.7)				

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

Power Out	put	Times		
1/1		15		
1/2(+0.3,+0).7)	20		
1/4(+0.3,+0	0.7)	30		
1/8(+0.3,+0	0.7)			
1/16(+0.3,+	0.7)	40		
1/32(+0.3,+	0.7)			
1/64(+0.3,+	0.7)	50		
1/128(+0.3	+0.7)			
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:

Prompts on 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	GIO1 N			
Compatible Cameras	Nikon cameras (i-TTL autoflash)			
Power	76Ws			
(1/1 output)				
Flash Coverage	28 to 105mm			
	Auto zoom (Flash coverage set automatically			
	to match the lens focal length and image size)			
	Manual zoom			
	Swinging/tilting flash head (bounce flash): 0 to 330°			
	horizontally and -7° to 120° vertically			
Flash Duration	1/300 to 1/20000 seconds			
Exposure Control				
Exposure control system	i-TTL autoflash and manual flash			
Flash Exposure	Manual. FEB: ±3 stops in 1/3 stop increments			
Compensation(FEC)	(Manual FEC and FEB can be combined.)			
Sync mode	High-speed sync (up to 1/8000 seconds),			
	first-curtain sync, and second-curtain sync			
Multi flash	Provided (up to 90 times, 100Hz)			
Wireless Flash				
Wireless flash function	Master, Slave, Off			
Master groups	M, A, B, C			
Controllable	A, B, C, D, E (D/E group can be controlled by ONE			
slave groups	system series flash trigger)			
Transmission range	100m			
(approx.)				
Channels	32 (1~32)			
ID	01~99			
Modeling flash	Fired with camera's depth-of-field preview button			
Auto Focus Assist Bea	m			
Effective range (approx.)	Center: 0.6~10m / 2.0~32.8 feet			
	Periphery: 0.6~5m / 2.0~16.4 feet			
• LED Modeling Lamp				
Power	2W			
Color Temperature	3300K±200K			
Power Supply				
Power source	7.2V/2600mAh Li-ion battery			
Recycle time	Approx 1.5 seconds. Green LED indicator will light up			
	when the flash is ready.			
Full power flashes	Approx. 480			
Power saving	Power off automatically after approx. 90 seconds			
	of idle operation. (60 minutes if set as slave)			
Sync Triggering Mode	Hotshoe, 2.5mm sync line			
Color Temperature	5600±200k			
Dimensions				
WxHxD	76*93*197mm			
Weight without battery	420g			
Weight with battery	530g			
2.4G Wireless Frequency	2413.0MHz-2464.5MHz			
Range				
Max. Transmitting Power	5dbm			
of 2.4G Wireless				
***	1			

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Troubleshooting

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

The Camera Flash does not fire.

- The camera flash is not attached securely to the camera.
 - →Attach the camera's mounting foot securely to the camera.
- The electrical contacts of the Camera Flash and camera are dirty.
- →Clean the contacts.

The power turns off by itself.

- After 90 seconds of idle operation, auto power off took effect if the flash is set as master.
- →Press the shutter button halfway or press any flash button to wake up.
- After 60 minutes (or 30 minutes) of idle operation, the flash unit will enter sleep mode if it is set as slave.
 - →Press any flash button to wake up.

Auto zoom does not work.

- The camera flash is not attached securely to the camera.
- →Attach the camera flash's mounting foot to the camera.

The flash exposure is underexposed or overexposed.

- · 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.
 - →Set the flash mode to i-TTL or modify the flash output.

Photos have dark corners or only parts of the target subject are illuminated.

- The focal length of lens exceeds the flash coverage.
- →Check the flash coverage you set. This flash unit has the flash coverage between 28 and 105mm, which fits medium-format cameras.

Firmware Upgrade

- The USB port is a Type-C USB socket. Type-C USB connection line is applicable.
- As the firmware upgrade needs the support of PIXAPRO G3 software, please download and install the "PIXAPRO G3 firmware upgrade software" before upgrading. Then, choose the related firmware file.
- As the product needs to do firmware upgrade, please refer to instruction manual of the newest electric version as final.

Compatible Camera Models

This flash unit can be used on the following **Nikon series camera** models:

D5	D4	D850	D500	D750	D810	D610	D800	D300S
D300	D7500	D5300	D5200	D5100	D5000	D3300	D3200	D3100
D3000	D200	D100	D70S	D60	D90	D7100	D7000	Z7
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This table only lists the tested camera models, not all Nikon series cameras. For the compatibility of other camera models, a self-test is recommended.

Rights to modify this table are retained.

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.

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FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ▶ Reorient or relocate the receiving antenna.
- ▶ Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

*RF warning:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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