Foreword

EN

Thank you for your purchase of the **NOEWER** product.

Z1-N is a TTL speedlite flash designed for Nikon cameras. With i-TTL auto flash, high-speed sync, wireless flash control and other features, it is suitable for various lighting conditions, thereby improving your overall shooting experience. The following features set it apart from the competition:

- The round head lamp design makes the light spot soft, even and natural, creating more creative light effects. It has 28/200 modeling lamp and 360° rotatable head for easy zoom direction, which is convenient for light distribution.
- Maximum flash power of 76W, 6.5 levels of dimming (1/3 1/256).
- Professional lithium battery for an optimal experience: 2600mAh Li-polymer battery with an autonomy of 480 flashes at full power, 1.5 seconds fast recharge.
- i-TTL Flash Compatible with Nikon
- Built-in 2.4G wireless X system, as a master or slave unit for wireless multi-lamp flash systems, making it easier and faster to shoot.
- Anti-static LCD panel
  Clear display, easy to operate.
- Built-in 2.4Hz wireless transceiver
  Integrated transmitter and receiver with a large radius.
- Comprehensive range of functions for an optimal experience
  Supports manual flash, multi-flash, high-speed sync, horizontal-screen shooting, exposure compensation, etc.
- Stable output
  High-speed continuous flash and color temperature will good even lighting.
- Updatable Firmware for total compatibility
  Firmware will be upgraded as the camera is updated.

Precautions

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- Always keep this product dry.
- Keep this product out of reach of children.
- Do not disassemble or modify the product.
- Do not subject to any form of physical shock. The product shouldn't be exposed to fire or an environment where the temperature exceeds 45 degrees.
- Do not let the flash directly into the eyes which could result in visual impairment.
- Do not use the product near chemicals, flammable gases or other volatile substances which may cause fire or electromagnetic interference.
- Do not use in the rain or in damp conditions.
- Turn off the product immediately, if it appears to be operating abnormally, and try to troubleshoot the issue.
- Failure to comply with the recommendations and warnings listed in the manual will invalidate the warranty.

Package Contents

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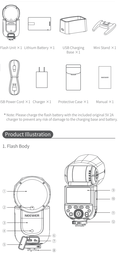
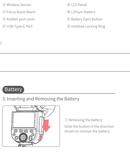


Note: Please charge the flash battery with the included original Sx 2A charger to prevent it and damage to the charging base and battery.

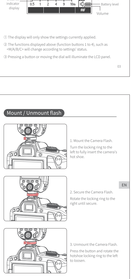
Product Illustration

1. Flash Body



Product Illustration

2. Control Panel



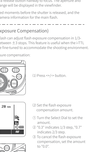
3. LCD Panel

① The display will only show the settings currently applied.
② The function buttons will illuminate when there is 1 to 5s, such as HSS/M/C+ with change according to settings' status.
③ Pressing a button or moving the dial illuminates the LCD panel.

Product Illustration

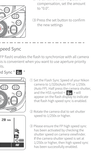
(1) ★ Menu Button

(2) APP Function



(4) Wireless Transmission Shooting

(5) Transmitter Link



4. Illustrations showing LCD displays (4 modes)

① Attached to the Camera

Product Illustration

(2.1) AG Wireless Transmission As a Transmitter Unit

(2.2) AG Wireless Transmission As a Receiver Unit

(4) SLSU mode

Battery

1. Features

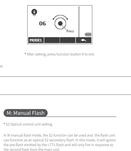
① This flash unit uses Li-ion polymer battery which boasts a long service life, a capacity of 2600mAh, a voltage of 7.4V, and 19.2Wh. ② Safe and reliable, the built-in circuit protects against overcharge, overdischarge, overcurrent, and short circuit.
③ Fast charging: the charging time is fully charge the battery is 3.5 hours using the charger.

2. Caution

① Do not short circuit.
② Do not leave the battery in water.
③ Keep the battery out of direct sunlight.
④ Do not exceed 24 hours of continuous charging.
⑤ Do not use the battery in a high temperature environment.
⑥ Do not place the battery near a fire.
⑦ Dead batteries should be disposed according to local regulations.
⑧ If the battery is not used for a long time, please ensure it is charged at least every 3 months.

Battery

3. Inserting and Removing the Battery



① Removing the battery
Slide the button in the direction shown to remove the battery.

② Inserting the battery
Insert the lithium battery into the battery compartment in the direction indicated by the arrow until the fastener snaps into place.

4. Battery Level Indicator

Make sure the battery is securely inserted in the flash. Check the battery level indicator on the LCD panel and the modeling battery level.

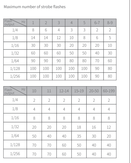
Battery Level Indicator	Indications
4 bars	Full
3 bars	Medium
2 bars	Low
1 bar	Very low
Empty bar	Low battery. Please charge as soon as possible
Flashing	Battery is low, flash will not work for longer work. Please recharge the battery as soon as possible (when charging, the battery can be used in a low power)

Modeling Lamp

Press the Modeling Lamp set button to activate the modeling lamp mode. Press the Up or Down button to adjust the modeling lamp's power. When the modeling lamp on, turn the select dial to set the brightness level (10 levels SS -10).

** When setting, press button Fn/A to lock.*

Mount / Unmount flash



1. Mount the Camera Flash
Turn the locking ring to the left to open the flash camera's hot shoe.

2. Secure the Camera Flash
Rotate the locking ring to the right and secure.

3. Unmount the Camera Flash
Press the button and rotate the locking ring to the left to loosen.

Power Management

- The Power ON/OFF button powers on and powers off the the device. Please remember to switch it off if will unused for a long period of time. When the flash is powered on, it will enter the standby mode. In the master unit, the flash will automatically enter sleep mode if no operation is performed after 30 seconds. Simply half-press your camera's shutter button to wake the flash from sleep mode. In the slave unit, the flash will enter sleep when there is no operation within 60 minutes (or set to 15 minutes alternatively). Press any flash button for 3 seconds to wake.

Note: 1) When used off the camera, it is recommended that you turn off the power switch to avoid battery drain. 2) Receiver Auto Power Off: the receiver will be turned off automatically by default. A 30-minute timer can be adjusted.

Flash Modes: i-TTL Auto Flash

The flash had three flash modes: auto flash(i-TTL), manual flash(M), and stroboscopic flash(MPT). Press the MODE button to switch to the desired camera's metering system to read the light exposure from the subject and automatically adjust flash output to get even exposure of the subject and background. Including exposure compensation, high-speed sync, reinforced rear-curtain sync, etc.

- Press • MODE • Mode Selection Button. The three flash modes will display on the LCD panel in a cycle.

Flash Mode: i-TTL Auto Flash

1. i-TTL Mode

Press the MODE button to select i-TTL/ to make the flash enter i-TTL mode.

① Press the camera release button halfway to focus. The aperture and effective flash range will be displayed in the viewfinder.
② A pre-flash is fired momentarily before the shutter is released, and the flash receives camera information for the main flash.

2. FEC(Flash Exposure Compensation)

Flash exposure compensation (FEC) is used to adjust compensation in 1/3-stop increments between ±3 stops. The function is useful when the TTL system needs to be fine-tuned to accommodate the shooting environment.

Setting Flash Exposure Compensation

① Set the flash exposure compensation value.
② Turn the Select Dial to set the FEC value.
Set to "0.0" indicates 1/3 step, to "3.0" indicates the full-power flash output. To cancel the flash exposure compensation, set the amount to "0.0".
③ Press the set button to confirm the setting.

3. HSS: High Speed Sync

High Speed Sync is used to synchronize flash with a camera shutter speeds. This is common when you want to use aperture priority mode in bright conditions.

Select High Speed Sync Mode

① Set the Fast Sync Speed of your Nikon camera to 1/250s(Auto FP or 1/250s(Auto FP) and enable Auto FP/High-Speed Sync in the camera menu.
② Press the MODE button to enter HSS mode.
③ Rotate the camera dial to set shutter speed to 1/250s or higher.
④ Please ensure the FP high-speed sync function is turned on in the camera menu. When the flashes fired and sent to the camera, the flashes have been successfully received.

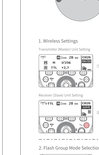
Flash Mode: i-TTL Auto Flash

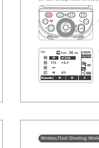
- If you have set the i-TTL flash to "Manual" in "Flash control" in the camera menu, the flash will not fire. Please set the flash to "TTL" or "Auto aperture" in the camera menu.
- With high-speed sync, the faster the shutter speed, the shorter the effective flash range.
- If the High-Speed Sync function is turned off, the flash will fire at the maximum synchronization speed.
- Auto WUM flash mode on your Nikon camera to enable wireless flash sync.

M: Manual Flash

The flash output is adjustable from 1/1 full power to 1/256th power in 1/3th-stop increments.

To obtain a desired flash exposure, use a hand-held flash meter to determine the required flash output.





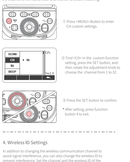
Press function button 2 to adjust the SLSU mode

① Optical control and setting

In M manual flash mode, the SLSU function can be used and the flash can be triggered by the optical signal from the master flash. When the master flash fires, the same effect as that obtained by the use of radio triggers. This helps the photographer create multiple lighting effects.

Flash Mode: Stroboscopic Flash

The term stroboscopic flash relates to a rapid series of flashes being fired, the number of flashes and the frequency of flashes can be set.



① Set the flash frequency and the number of flashes.
② Press the Function Button 1 to select the number of flashes, from 2 to 200. Turn the Select Dial to set the value.
③ Press the Function Button 2 to select the flash frequency. Turn the Select Dial to set the value.

④ Press +/- button, then rotate the adjustment knob to set flash output. Press the SET button to confirm, and all settings will appear on the display.

Calculating the Shutter Speed:

During a 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 20 and the firing frequency is 10 hz, the shutter speed should be at least 2 seconds.

MPT: Stroboscopic Flash

- To avoid overheating and deterioration of the flash head, do not use the stroboscopic flash more than 10 minutes continuously. Please allow the flash to cool down for 30 minutes before using it again.
- Try to use the stroboscopic flash more than 10 times in succession, the flash may stop flashing automatically. This is to protect the flash. There should be a pause of more than 10 minutes to use the flash normally.

- Stroboscopic flash is most effective with a highly reflective subject against a dark background.
- It is recommended to use a tripod and a remote control.
- A flash output of 1/2 and 1/2 cannot be set for stroboscopic flash photography.
- Stroboscopic flashes can be operated with the "Local" function.

Maximum number of strobe flashes

Output	1/1	1/2	1/4	1/8	1/16	1/32	1/64
1/4	4	5	6	8	8	8	8
1/8	8	10	12	16	16	16	16
1/16	16	20	24	32	32	32	32
1/32	32	40	48	64	64	64	64
1/64	64	80	96	100	100	100	100
1/128	100	100	100	100	100	100	100
1/256	100	100	100	100	100	100	100

Output	1/1	1/2	1/4	1/8	1/16	1/32	1/64
1/4	2	2	2	2	2	2	2
1/8	4	4	4	4	4	4	4
1/16	8	10	12	16	16	16	16
1/32	20	20	20	32	32	32	32
1/64	50	40	40	50	50	50	50
1/128	70	70	80	80	80	80	80
1/256	70	70	80	90	90	90	90

Wireless Flash Shooting: Wireless Z-4G Transmission

- With creative radio control system, the speedlite supports 5 slave flash groups in i-TTL auto flash mode (for now i-TTL auto flash is slave flash group A only).
- The group flash settings on the master flash unit, whether in i-TTL auto flash, manual flash or multi flash mode, will all be transmitted to the corresponding slave flash units. Therefore, you will only need to change settings on the master unit to control each slave flash group, without having to individually change settings on each slave unit.
- When the i-TTL or M is selected in flash unit, it supports operation in 4 flash modes: i-TTL/M/MPT/OFF.

Wireless Flash Shooting Example (Example of wireless flash shooting):

AutoFlash Shooting with One Receiver Link

- Use the supplied mini stand to assemble the Receiver unit.
- Perform a flash test and test shot before shooting.
- The transmission distance might be shorter depending on the shooting environment. Please avoid using it near any surrounding wireless and weather conditions.

Wireless Multiple Flash Shooting

The slave units can be divided into two or three groups to flex i-TTL auto flash simultaneously while changing flash light ratio. In addition, different flash groups (5 groups maximum) can be set to work in different flash modes.

① Auto flash shooting with two slave groups

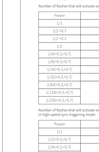
Wireless Flash Shooting: Wireless Z-4G Transmission

① Auto flash Shooting with three slave groups

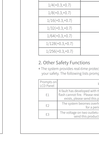
1. Wireless Settings

Transmitter Link and Setting

Receiver (Slave) Link Setting



2. Flash Group Mode Selection



Wireless Flash Shooting: Wireless Z-4G Transmission

① Setting the flash mode

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

② Set the +M/T+ strobe mode

Wireless Flash Shooting: Wireless Z-4G Transmission

② MPT: Wireless Flash Shooting with Manual Flash

Troubleshooting: 2.4G wireless flash shooting

1. Interference of the 2.4g signal resulting from external factors (such as a wireless hub, a Wi-Fi routing, Bluetooth equipment, etc.)
- Please adjust the channel CH setting of the transmitter+Ch to avoid the interference from the external environment. Please refer to all the CH modes you need to be performed.

2. Please ensure that the flash is fully recycled, the flash ready indicator is on and that the overheat protection feature hasn't been triggered.
- Please lower the flash setting by changing to manual mode (M) if the device is in i-TTL mode you need to be performed.

3. Please check whether the flash detector and the receiving device are turning on properly.
- Please replace the batteries (1.5V disposable alkaline batteries are recommended for the flash receiver battery)

Other Applications

Using Automatic Wireless Flash with a Single Receiver Unit

** After setting, press function button Fn/A to lock.*

1. i-TTL/ Fully auto wireless flash

Using Automatic Wireless Flash with a Single Receiver Unit

Press the Function Button 5 (Corresponding to M) to select group A, and then press function button 4 again to select TTL/M+ option (turn the dial to adjust power and flash exposure compensation in the picture).

2) Transmitter Unit Setting

Set the 2.4 Ghz mode CH in camera as the master unit. (Page 23)
The M/A/B/C groups all support TTL.

3) Receiver Unit Setting

Set the receiver unit and the slave unit to the same channel. (Page 24)

4) Position the cameras and flashes.

Position the master and the slave unit at close range as shown on Page 22.

5) Check if the flash is ready.

Check that the transmitter flash ready indicator is lit.

6) Check the flash operation.

- Press the Transmitter unit 's test button( ).
- The Receiver unit should then flash. If it doesn't, check the receiver is paired within the operating range.

Other Applications

5. ZOOM: Set the flash coverage

The flash coverage can be set automatically or manually. It can be set manually by pressing the ZOOM+ button. The zoom range is set to cover the focal length changes with the camera's zoom lens to provide the best flash effect.

* If you set the flash coverage manually, make sure it covers the lens focal length so that the picture will not be vignetted.

C.Fn: Setting Custom Functions

Use the Customize function to complete settings according to the following table.

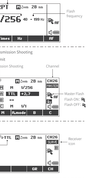
Custom Functions	Function	Setting No.	Setting and Instructions
ZOOM	Flash Coverage	00	Auto
		01	Manual
AF	AF-assist beam	ON	on
		OFF	off
STBY	Auto sleep setting	ON	on
		OFF	off
SLSW	Receiver auto power on/off	00	Enable
		01	Disable
SCAN	Scan for the channels	00	Enable
		SCAN1	Scan and find 1-10 channels
CH	Channel setting	01-20	Select a channel
AT	Wireless ID	ON	Turn on/ Activate
		OFF	Turn off
		00-99	Set the ID

C.Fn: Setting Custom Functions

Custom Functions	Function	Setting No.	Setting and Instructions
BEEP	Beeper	ON	on
		OFF	off
LIGHT	Backlight Duration	10sec	Off in 10 sec
		OFF	Always off
		ON	Always on
LCD	LCD contrast ratio	0~15	7 levels
SHT	Flash distance	0.50m	0.50m flash
		0.01m	0.01m flash

1. Press MENU Button until C.Fn menu displays. The " fn " in the lower-right corner refers to C.Fn function.
2. Select the Custom Function No. by turning the selector dial.
3. Change the Setting.
① Short press the MENU button to select the C.Fn sub-menu.
② Rotate the dial counterclockwise to select the item to be adjusted. Press the set button to change value.
③ After you have changed the settings, press the Function Button 4 or +MENU+ button to exit and use your camera to start shooting.

Restore factory settings



Protection Function

1. Over-Temperature Protection

① To prevent the flash head from overheating and overheating, it is recommended not to fire more than 30 continuous flashes in full power mode (1/1 or 1/2). The maximum number of flashes in 1/2 is recommended to be 50.
② If you fire more than 30 continuous flashes and then fire more flashes in short intervals, the internal over-temperature protection may be activated. The recycling time will be longer (over 10s). If this occurs, turn off the flash and wait for about 10 minutes for it to recover to the flash unit to operate normal.

Number of flashes that will activate over-temperature protection:

Power	Number of Flashes
1/1	30
1/2	50
1/2 +0.3	60
1/3	70
1/4+0.3	80
1/4	100
1/4+0.3 +0.7	150
1/5+0.3 +0.7	200
1/5+0.3 +1.0	300
1/6+0.3 +0.7	400
1/6+0.3 +1.0	500
1/6+0.3 +1.3	600
1/7+0.3 +0.7	800
1/7+0.3 +1.0	1000
1/7+0.3 +1.3	1200

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

Power	Number of Flashes
1/1	15
1/2+0.3	20
1/3+0.3 +0.7	30
1/4+0.3 +0.7	40
1/5+0.3 +0.7	60
1/5+0.3 +1.0	80
1/6+0.3 +1.0	100
1/6+0.3 +1.3	120
1/7+0.3 +1.0	150
1/7+0.3 +1.3	200

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

Power	Number of Flashes
1/1	10
1/2	15
1/3	20
1/4	30
1/5	40
1/6	50

2. Other Safety Functions

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

Prompts on LCD Panel	Solutions
E1	A fault has developed with the flash's thyristor power circuit or the flash control line. Please reset the flash unit. If the problem still exists, please contact your dealer or Customer Service Center.
E2	The voltage of the flash's main capacitor is too high. Please turn off the flash unit. If the problem still exists, please contact your dealer or Customer Service Center.
E3	The voltage of the flash's main capacitor is too low. Please charge. Please wait for the flash unit to recharge.

Technical Data

Model	Z1-N
Compatible Camera	Nikon Digital Single Lens Reflex Camera (i-TTL auto flash)
Power/ILS Indicator	Yes
Flash Coverage	20to105mm Auto zoom with automatic or manual (AF) to match the lens focal length and image size)
Flash Duration	Manual zoom 1/1 full flash duration: 1/880s~1/1000s
Flash Duration	1/880s~1/1000s
Exposure control system	i-TTL auto/flash and manual flash
Flash exposure compensation	Manual: ±3EV, 1/3 or 1/2 EV increments Auto: ±3EV, 1/3 or 1/2 EV increments
Sync mode	Front-curtain sync, rear-curtain sync, high-speed sync, and slow-rear-curtain sync
Modeling lamp	Yes, 10 levels, 28W/6
Wireless flash control	5 groups (A/B/C/D/E), 4 channels
Wireless flash function	Supported
Wireless flash function	Supported
Transmission groups	M,A,B,C
Transmission channels	4, 1, 2, 3, 4 (2.4 group can be controlled by QING series Foxer trigger available on Newear.com)
Wireless flash control distance	30m
Channels	01 through 20 / 00
Frequency	2.4GHz
Frequency Range	2412.75MHz-2484.25MHz
Wireless Transmission Protocol	Proprietary
Wireless flash control	Power your camera's PC sockets built-in for the Nikon
Effective range distance	Outdoor: 100-200m / Indoor: 0-30-50m
Power	Rechargeable Li-ion battery
Power	7W
Color Temperature	5500K ± 200K
Power Consumption	
Button Lock battery	7.4V2600mAh Li-ion battery
Recycle time	Approx. 1.5 seconds (when using a fully charged battery)
Number of Flash at full power	Approx. 480
Energy-saving	Auto flash: Approx. 30 minutes (Can be changed in the custom C.Fn setting) Manual flash: Approx. 60 minutes (Can be changed in the custom C.Fn setting)
Dimensions	76*67*197 mm
Volume	967*10^3 mm
Net weight without battery	415g
Weight with battery	520g

List of compatible cameras

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This flash unit supports i-TTL auto flash control of Nikon digital cameras:

D4, D4S, D800, D800E, D810, D810A, D850, D3200, D3300, D3400, D3500, D5200, D5300, D5500, D5600, D7000, D7100, D7200, D7500, D610, D600, D750, D500, D5100, D5200, D5600, D7000, D7100, D7200, D7500, D90, D5, D6

Note: This table only lists the camera models that have been tested at present, and does not cover all of these camera systems. Other camera models can be tested by users.

Firmware upgrade

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- The Firmware of this product will be upgraded through the USB port. The official website announcements and instructions will be published on the website.
- This product does not come with a USB cable for the firmware upgrade. Please purchase separately. The USB port of this product is a "type-C port. Please prepare a "type-C" cable.
- Upgrading the firmware requires the Nweer Firmware Software support. Please download and install "Nweer Firmware Updater" and then select the corresponding firmware for before updating.
- As the product is undergoing a firmware upgrade, please refer to the latest electronic version of the manual.

Troubleshooting

EN

If you experience a problem with the device, please refer to this troubleshooting guide.

1. The Camera flash does not fire.
- Make sure the flash is fixed securely to the camera.
- Attach the hot shoe base mount of the flash securely to the camera.
2. The electrical contacts of the camera flash and camera are dirty.
- Clean the contacts.

3. Auto power off
- After 30 seconds of idle operation, auto power off will have activated if the flash unit is set to Automatic Shutdown.
- Half-press your camera's shutter release or press any flash button for 3 seconds to wake.
- Idle 60 minutes (or 30 minutes) of idle operation, the flash unit will enter sleep mode if it is set to Manual Shutdown.
- Press any flash button to wake up.

4. Auto zoom does not work.
- The camera flash is not attached securely to the camera.
- Attach the camera flash's mounting base to the camera.

5. The flash exposure is underexposed or overexposed.
- Too small high-speed sync, the effective flash range will be shorter. Make sure the subject is within the effective flash range displayed.
- Use the flash in TTL mode.
- Set the flash mode to TTL or to modify the flash output.

6. Photos have dark corners or only parts of the target subject are illuminated.
- The focal length of lens exceeds the flash coverage.
- Check the focal length that has been set. The flash unit has the maximum coverage between 24 and 105mm, which fits most on-format cameras.