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› NEEWER Z2-N 2.4G TTL Round Head Flash Speedlite Instruction Manual

NEEWER Z2-N

NEEWER Z2-N 2.4G TTL Round Head Flash Speedlite Instruction Manual

Model: Z2-N

1. INTRODUCTION

This instruction manual provides detailed guidance for the NEEWER Z2-N 2.4G TTL Round Head Flash Speedlite. Designed for Nikon cameras, this speedlite offers advanced features such as 76Ws flash power, 1/8000s High-Speed Sync (HSS), and a user-friendly interface. Please read this manual thoroughly to ensure proper operation and to maximize the performance of your device.



Image 1.1: NEEWER Z2-N Flash Speedlite and included accessories.

2. SETUP

2.1 Package Contents

- 1 x NEEWER Z2-N Flash Speedlite
- 1 x Lithium Battery
- 1 x Half Dome Diffuser
- 1 x Protective Case
- 1 x Mini Stand
- 1 x USB Cable

FLEXIBLE FLASH HEAD



PACKAGE CONTENTS



1 x Z2-N Flash Speedlite



1 x Protective Case



1 x Lithium Battery



1 x Mini Stand



1 x Half Dome Diffuser



1 x USB Cable

Image 2.1: Contents of the NEEWER Z2-N package.

2.2 Battery Installation and Charging

1. Locate the battery compartment on the side of the flash unit.
2. Insert the provided 7.2V/3000mAh lithium-ion battery, ensuring correct polarity.
3. Close the battery compartment cover securely.
4. To charge the battery, connect the included USB Type-C cable to the flash unit's charging port and a 5V/2A USB power adapter (not included). A full charge typically takes approximately 2.5 hours.



2.3 Mounting on Camera

1. Slide the flash unit onto your Nikon camera's hot shoe.
2. Secure the flash by rotating the hot shoe lock mechanism until it is firmly attached.

3. OPERATING INSTRUCTIONS

3.1 Power On/Off

Press and hold the power button (usually marked with a lightning bolt symbol) to turn the flash unit on or off.

3.2 Mode Selection (TTL/M Toggle)

The Z2-N features an upgraded user interface and a dedicated TCM key for quick mode switching.

- **TTL Auto Mode:** The flash automatically determines the appropriate light output for correct exposure.
- **Manual Mode (M):** Allows manual adjustment of flash output from 1/1 (full power) to 1/256.
- **TCM Key:** Press the TCM key to instantly switch between TTL and Manual modes, retaining the TTL metering memory for fine-tuning.
- **Multi Strobe Flash:** For capturing multiple images of a moving subject in a single frame.



Image 3.1: The TCM Quick Switch for rapid mode changes.



Image 3.2: The enhanced user interface for clear display of settings.

3.3 Flash Exposure Control

The Z2-N supports various exposure control functions:

- **Automatic Metering:** In TTL mode, the flash automatically adjusts output.
- **Flash Exposure Compensation (FEC):** Adjust flash output relative to the camera's metered exposure.
- **Flash Exposure Bracketing (FEB):** Takes multiple shots at different flash exposure levels.
- **Flash Exposure Lock (FEL):** Locks the flash exposure value.

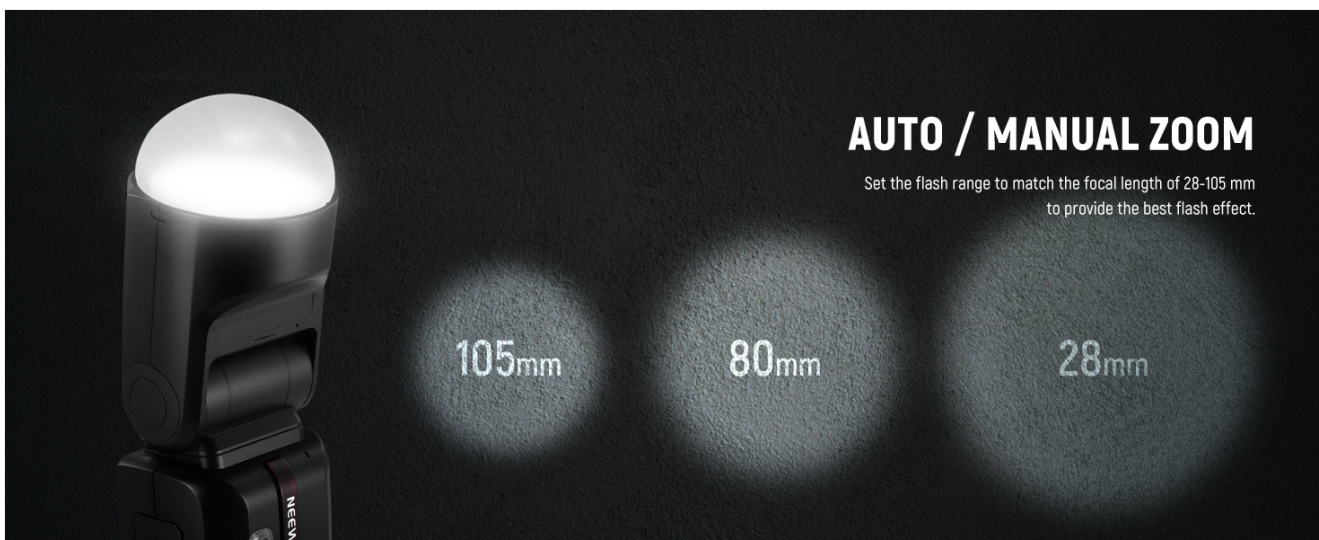


Image 3.3: TTL Auto Flash automatically adjusts for accurate exposure.

3.4 Flash Head Adjustment and Zoom

The circular Fresnel flash head offers flexible positioning and light shaping:

- **Swivel:** The flash head can swivel 0-330 degrees.
- **Tilt:** The flash head can tilt -7 to 120 degrees.
- **Auto/Manual Zoom:** The flash coverage can be automatically or manually adjusted for lenses between 28-105mm to match the focal length.



Image 3.4: The magnetic dome diffuser provides even, soft light.

3.5 Modeling Lamps

The Z2-N includes two upgraded 2W 3300K LED modeling lamps (one below the flash head) with 10 adjustable brightness levels (01-10). These lamps assist in previewing light effects and focusing.

SPECIFICATION			
Model:	Z2-N	Controlled Subordinate Unit Group:	A, B, C, D, E <small>(group E can use the QPRO series of flashes to control)</small>
Maximum Flash Power:	76Ws	Transmission Range:	328ft/100m transmission distance (no obstacles)
Flash Coverage:	28-105mm, Automatic zoom, Manual zoom	Channel: 32 groups:	01 - 32
Rotating Angle of the Light Head:	0° -330°	ID:	01 - 99
Light Head Tilt Angle:	-7° -120°	Modeling Light Power:	2W
Flash Duration:	1/180s - 1/20000s	Modeling Light Color Temperature:	3300K
Flash Light Color Temperature:	5600K (± 200K)	Effective Range:	Central: 0.6-10 m / Edge: 0.6-5m
Exposure Control System:	TTL auto flash, manual flash	Battery:	7.2V/3000mAh lithium battery
Synchronous Method:	Sync method: High speed sync (up to 1/8000 seconds), front curtain synchronization, back curtain synchronization	Number of Full Power Flash:	about 600 times
Wireless Function:	Master, Slave, OFF	Synchronous Trigger:	Hot shoe, 2.5mm synchronous line
Main Control Unit Group:	M, A, B, C	Dimensions:	2.9" x 2.9" x 8.1" / 76 x 76 x 206mm
		Weight (including battery):	1.27lb / 580g

Image 3.5: Dual modeling lights with 10 adjustable brightness levels.

3.6 Wireless Operation (2.4G Q System)

The Z2-N integrates with the NEEWER 2.4G Q Wireless System, allowing for flexible off-camera flash control.

- **Groups:** Control four groups (A/B/C/D).
- **Channels & IDs:** Utilize 32 channels and 99 IDs for interference-free operation.
- **Transmission Distance:** Up to 328 feet (100 meters) in open areas.
- **Compatibility:** Can be used as a master or slave unit for Q system flashes. Compatible with QPRO-N TTL transmitters (not included) and Godox 2.4G X system (RX COMPAT menu) as a slave.
- **Note:** Q and X systems cannot be used simultaneously. Ensure the latest firmware is installed for optimal compatibility.



Image 3.6: Overview of the built-in 2.4G NEEWER Q System.

3.7 Advanced Flash Functions

- **High-Speed Sync (HSS):** Supports shutter speeds up to 1/8000s, allowing for flash use in bright ambient light or with wide apertures.
- **Front/Rear Curtain Sync:** Synchronizes the flash with either the beginning or end of the shutter exposure.
- **S1/S2 Optical Slave Modes:** Allows the Z2-N to be triggered by another flash unit optically.



Image 3.7: High-Speed Sync for outdoor supplemental lighting.

4. MAINTENANCE

4.1 Cleaning

Use a soft, dry cloth to clean the flash unit. Avoid using harsh chemicals or abrasive materials, which can damage the surface or electronic components.

4.2 Battery Care

To prolong battery life, store the lithium-ion battery in a cool, dry place when not in use. Avoid exposing the battery to extreme temperatures. If the flash will not be used for an extended period, it is recommended to remove the battery.

4.3 Firmware Updates

Firmware updates may be released to improve performance or add new features. These updates can be installed via the USB Type-C port on the flash unit. Refer to the NEEWER official website for the latest firmware and instructions.

5. TROUBLESHOOTING

- **Flash not firing:**
 - Ensure the battery is charged and correctly installed.
 - Check that the flash is securely mounted on the camera's hot shoe.
 - Verify camera and flash settings are compatible (e.g., flash enabled, correct mode selected).
- **Inconsistent exposure:**
 - In TTL mode, ensure the subject is within the effective flash range.
 - In Manual mode, adjust the flash power output as needed.
 - Check for any obstructions between the flash and the subject.
- **Wireless connection issues:**
 - Confirm that the master and slave units are set to the same group, channel, and ID.
 - Reduce the distance between the units and ensure no major obstructions.
 - Check battery levels on both transmitter and receiver units.
- **Flash head not moving smoothly:**
 - Ensure no debris is obstructing the swivel or tilt mechanisms.
 - Do not force the flash head if resistance is met.

6. SPECIFICATIONS

Feature	Specification
Model	Z2-N
Maximum Flash Power	76Ws
Flash Coverage	28-105mm (Automatic/Manual Zoom)
Rotating Angle of Light Head	0-330°
Light Head Tilt Angle	-7-120°
Flash Duration	1/180s - 1/20000s
Flash Light Color Temperature	5600K (±200K)
Exposure Control System	TTL auto flash, Manual flash
Synchronous Method	High-speed sync (up to 1/8000s), Front/Rear curtain synchronization
Wireless Function	Master, Slave, OFF
Main Control Unit Group	A, B, C
Controlled Subordinate Unit Group	A, B, C, D, E (group E can use the QPRO series of flashes to control)
Transmission Range	328ft / 100m (no obstacles)
Channel	32 groups (01-32)
ID	01-99
Modeling Light Power	2W
Modeling Light Color Temperature	3300K
Effective Range (Modeling Light)	Central: 0.6-10 m / Edge: 0.6-5m
Battery	7.2V/3000mAh lithium battery
Number of Full Power Flashes	Approx. 600 times
Synchronous Trigger	Hot shoe, 2.5mm synchronous line
Dimensions	2.9" x 2.9" x 8.1" / 76 x 76 x 206mm
Weight (including battery)	1.27lb / 580g

7. COMPATIBILITY

The NEEWER Z2-N Flash Speedlite is compatible with a wide range of Nikon cameras, including but not limited to:

- Nikon Z9, Z8, Zfc, Z50, Z30, Z5, Z6, Z7, Z6II, Z7II
- Nikon D4, D5, D6, D60, D70S, D90, D100, D200, D300, D610, D700, D750, D780, D800, D850
- Nikon D3100, D3200, D3300, D3400, D3500, D5000, D5100, D5200, D5300, D7100, D7500

Note: This flash is NOT compatible with Nikon D810.



Image 7.1: NEEWER Z2-N mounted on a Nikon camera.

8. WARRANTY AND SUPPORT

This product is covered by a manufacturer's warranty. For warranty details, technical support, or service inquiries, please refer to the warranty card included with your product or visit the official NEEWER website. Contact information for customer support can typically be found on the product packaging or the NEEWER brand website.