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NEEWER Z2-C

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

Model: Z2-C

Product

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1. IMPORTANT SAFETY INFORMATION

Please read and understand all safety precautions before using this product. Improper use can result in electric shock, fire, or serious injury.

- Do not disassemble or modify the flash unit. Repairs should only be performed by authorized service personnel.
- Keep the flash unit dry. Do not expose it to rain, moisture, or high humidity.
- Avoid direct eye exposure to the flash. The intense light can cause temporary visual impairment.
- Use only the specified battery and charging accessories.
- Do not operate the flash in the presence of flammable gases or liquids.
- Ensure the flash is securely mounted to the camera or stand to prevent accidental drops.

2. PRODUCT OVERVIEW

The NEEWER Z2-C is a versatile 2.4G TTL Round Head Flash Speedlite designed for Canon cameras. It offers advanced features for professional and enthusiast photographers.



Image 2.1: The NEEWER Z2-C Round Head Flash Speedlite.

2.1. Key Features

- **Enhanced UI and TTL/M Mode Switch:** Features an upgraded user interface and a TCM key for quick switching between TTL and Manual modes.
- **Great Performance & Modeling Lamps:** 76Ws max output, 5600K stable color temperature, circular Fresnel flash head, and two 2W 3300K LED modeling lamps with 10 brightness levels.
- **Expanded 2.4G Wireless System:** Supports wireless control of four groups (A/B/C/D), 32 channels, and 99 IDs up to 100m (328'). Compatible with NEEWER QPRO-C TTL transmitters (not included) and Godox 2.4G X system (RX COMPAT menu).
- **High Capacity & Fast Recycling:** Equipped with a 7.2V/3000mAh lithium battery providing 600 full power flashes and a 1.5s recycling time.
- **Flexible Flash Head:** Offers 0-330° swivel and -7-120° tilt for versatile light positioning.

2.2. Package Contents

The NEEWER Z2-C package includes the following items:

- 1 x NEEWER Z2-C TTL Round Head Flash Speedlite
- 1 x Protective Case
- 1 x Mini Stand
- 1 x Lithium Battery (7.2V/3000mAh)
- 1 x USB Cable (Type-C to USB-A)



Image 2.2: Included items: Z2-C Speedlite, protective case, mini stand, lithium battery, and USB cable.

3. SETUP

3.1. Battery Installation

1. Locate the battery compartment on the side of the flash unit.
2. Slide the battery compartment door open.
3. Insert the 7.2V/3000mAh lithium battery, ensuring the contacts align correctly.
4. Close the battery compartment door until it clicks securely.

3.2. Mounting on Camera

1. Slide the flash unit's hot shoe onto your camera's hot shoe mount.
2. Rotate the locking ring or lever on the flash unit to secure it firmly in place.
3. Ensure the flash is stable and properly connected before operation.



Image 3.1: The Z2-C Speedlite mounted on a compatible Canon camera.

4. OPERATING MODES AND FEATURES

The NEEWER Z2-C offers various flash modes and features to suit different photographic needs.

4.1. User Interface and Mode Switching

The flash features an upgraded UI for intuitive control. Use the TCM key to quickly switch between TTL and Manual modes.



Image 4.1: The enhanced user interface and TCM switch for quick mode conversion.

4.2. TTL (Through-The-Lens) Automatic Flash

In TTL mode, the flash automatically meters the scene to achieve accurate flash exposure, adjusting for complex lighting changes. This mode supports automatic zoom (28-105mm) and exposure compensation (FEC/FEB/FEL).

4.3. Manual (M) Mode

Manual mode allows for precise control over flash output, ranging from 1/1 to 1/256. This is ideal for controlled lighting environments or when consistent output is required.

4.4. Multi-Strobe Mode

The multi-strobe mode enables a series of rapid flashes within a single exposure, creating dynamic motion effects. Flash duration can be as short as 1/180s to 1/20000s.

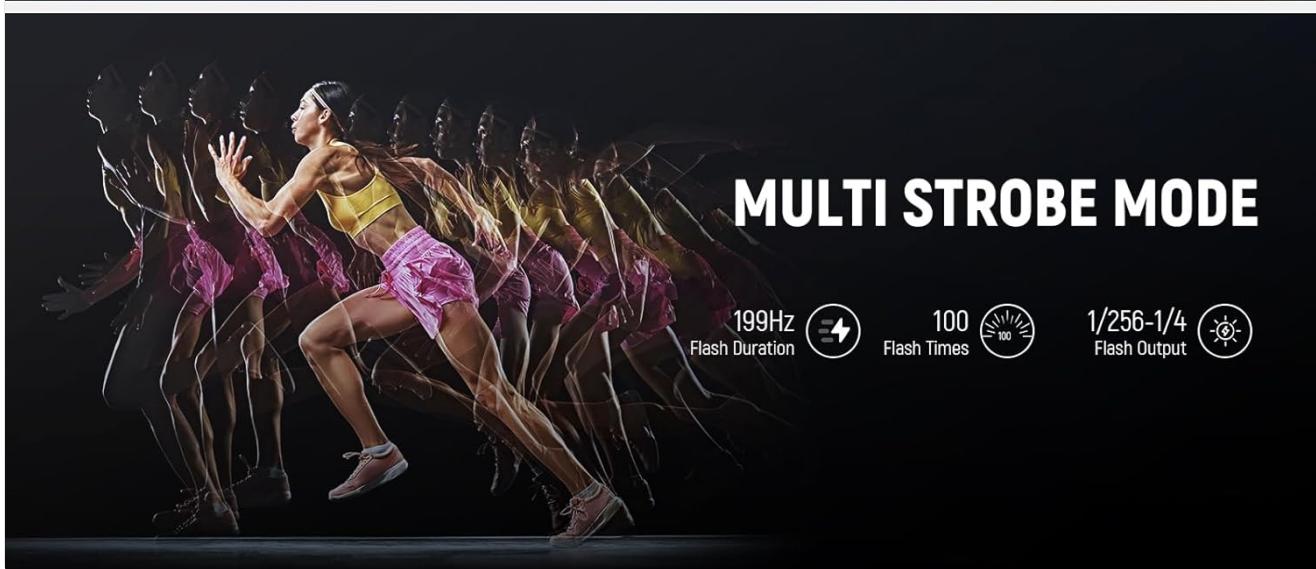


Image 4.2: Display showing manual flash output and multi-strobe mode capabilities.

4.5. High-Speed Sync (HSS)

The Z2-C supports 1/8000s HSS, allowing you to use flash at shutter speeds faster than your camera's native sync speed. This is particularly useful for overpowering ambient light outdoors or using wide apertures.

4.6. Front/Rear Curtain Sync

Synchronize the flash with either the opening (front curtain) or closing (rear curtain) of the camera's shutter for creative motion blur effects.

4.7. S1/S2 Optical Slave Modes

The flash can be triggered optically by another flash unit in S1 (standard slave) or S2 (pre-flash cancel slave) modes, providing off-camera lighting without a radio trigger.

4.8. Flexible Flash Head

The flash head can swivel 0-330° horizontally and tilt -7-120° vertically, allowing for bounce flash and precise light direction.

4.9. Modeling Lamps

The Z2-C features two upgraded 2W 3300K LED modeling lamps (one below the flash head) with 10 adjustable brightness levels (01-10). These lamps assist in visualizing light patterns and focusing in low light.



Image 4.3: Dual modeling lights with adjustable brightness for pre-visualization and focusing.

4.10. Official Product Video

Video 4.1: Official NEEWER Z2-C 2.4G TTL Round Head Flash Speedlite overview, demonstrating key features and functionality.

5. 2.4G WIRELESS SYSTEM

The Z2-C integrates an expanded 2.4G wireless system for remote control and multi-flash setups.

5.1. Wireless Control

- Operate as a master or slave unit within the NEEWER Q system.
- Supports four groups (A/B/C/D), 32 channels, and 99 IDs.
- Wireless transmission distance up to 100m (328').
- Compatible with NEEWER QPRO-C TTL transmitters (sold separately).

5.2. Cross-Brand Compatibility

The Z2-C is compatible with Godox 2.4G X system (via RX COMPAT menu) and Sekonic L-858D light meter (with RT-GX module). Note that Q and X systems cannot be used simultaneously, and the latest firmware may be required for full compatibility.



Image 5.1: Overview of the NEEWER 2.4G Wireless Q System, showing groups, channels, and IDs.

6. BATTERY INFORMATION

The Z2-C is powered by a high-performance lithium battery for extended use.

6.1. Battery Specifications

- Type: 7.2V/3000mAh Lithium Battery
- Full Power Flashes: Approximately 600
- Recycling Time: 1.5 seconds (at full power)

6.2. Charging

The battery can be fully charged in approximately 2.5 hours using a 5V 2A USB charger (not included) via the USB Type-C port on the battery itself.

6.3. Firmware Updates

The USB Type-C port also allows for firmware updates to ensure your flash unit has the latest features and compatibility.

HIGH PERFORMANCE LITHIUM BATTERY



7.2V / 3000mAh
Battery Capacity



600
Full Flashes



1.5s
Fast Recycling



HIGH EFFICIENCY

EASY TO CHARGE

The battery can be fully charged in 2.5 hours with a 5V 2A USB charger (not included). Firmware update is available via the USB Type C port



2.5H
Full Charge



Image 6.1: The 7.2V/3000mAh lithium battery being charged via its USB Type-C port.

7. CAMERA COMPATIBILITY

The NEEWER Z2-C is designed for use with a wide range of Canon cameras, including:

- Canon R6, R5, R3, R, M6
- Canon 850D, 800D/T7i, 760D/T6s, 750D/T6i, 650D, 600D
- Canon 7D Mark II, 7D, 6D Mark II, 6D, 5D Mark IV/III/II
- Canon 1D Mark III, 1DX, 550D, 500D, 450D
- Canon 90D, 80D, 70D, 60D, 50D
- Canon 1100D, 77D, SL3/250D, T7/1500D 2000D, T100/3000D 4000D

Note: This flash is **NOT** compatible with Canon RP and R50 models.

8. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your NEEWER Z2-C flash.

- **Cleaning:** Use a soft, dry cloth to clean the flash unit. For stubborn dirt, a slightly damp cloth can be used, followed by immediate drying. Avoid harsh chemicals or abrasive materials.
- **Storage:** Store the flash unit in its protective case in a cool, dry place away from direct sunlight and extreme temperatures. Remove the battery if storing for extended periods.
- **Battery Care:** Recharge the battery regularly, even if not in use, to maintain its health. Avoid fully discharging the battery frequently.
- **Hot Shoe Contacts:** Keep the hot shoe contacts clean and free from debris to ensure reliable communication with the camera.

9. TROUBLESHOOTING

If you encounter issues with your NEEWER Z2-C flash, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Flash not firing	Low battery; incorrect camera/flash settings; loose hot shoe connection; flash in sleep mode.	Charge battery; check flash mode (TTL/M) and camera settings; ensure flash is securely mounted; press test button to wake from sleep.
Battery not charging	Faulty USB cable/charger; battery not inserted correctly; damaged battery.	Try a different USB cable and 5V 2A charger; re-insert battery; replace battery if damaged.
Wireless trigger not working	Incorrect channel/ID; flash not in slave mode; distance too far; interference.	Match channel/ID on flash and trigger; set flash to slave mode; reduce distance; change channel to avoid interference.
Inconsistent flash output	Low battery; rapid firing; environmental factors.	Ensure battery is fully charged; allow sufficient recycling time between flashes; adjust settings for ambient light.

10. SPECIFICATIONS

Detailed technical specifications for the NEEWER Z2-C flash unit.

Feature	Detail
Model	Z2-C
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	E-TTL II Automatic Flash, Manual Flash
Synchronous Method	High Speed Synchronization (up to 1/8000s), Front Curtain Synchronization, Back Curtain Synchronization
Wireless Function	Master, Slave, OFF
Main Control Unit Group	M, A, B, C
Controlled Subordinate Unit Group	M, A, B, C (group E can use the QPRO series of flashes to control)
Transmission Range	328ft/100m (no obstacles)
Channel	32 groups (01-32)
ID	99 (01-99)
Modeling Light Power	2W
Modeling Light Color Temperature	3300K
Effective Range	Central: 0.6-10 m / Edge: 0.6-5m
Battery	7.2V/3000mAh Lithium Battery
Number of Full Power Flash	About 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

11. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the official NEEWER website or contact their customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.