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> NEEWER Q120 TTL 2.4G 120Ws Outdoor Strobe Flash User Manual

NEEWER Q120

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Model: Q120 | Brand: NEEWER

1. INTRODUCTION

The NEEWER Q120 is a compact and powerful 120Ws outdoor strobe flash designed for professional photography. It features TTL automatic flash, High-Speed Sync (HSS) up to 1/8000s, and a built-in 2.4GHz wireless system for versatile control. Its portable design and robust battery make it suitable for various outdoor and studio shooting scenarios.



Image 1.1: The NEEWER Q120 flash being used in an outdoor photography setup.

2. WHAT'S IN THE BOX

Verify that all components are present upon unpacking:

- 1 x Q120 Outdoor Strobe Flash
- 1 x Metal Handle
- 1 x Lithium Battery
- 1 x USB-C Charging Cable

- 1 x Diffuser
- 1 x Carrying Bag

Contenuti della Confezione



1 x Flash stroboscopico da esterno Q120



1 x Borsa per il trasporto



1 x Diffusore



1 x Supporto di presa



1 x Cavo di ricarica USB C



1 x Batteria al litio

Image 2.1: All included components of the NEEWER Q120 package.

3. SETUP

3.1 Battery Installation and Charging

1. Insert the provided 3000mAh lithium battery into the battery compartment of the Q120 flash. Ensure it clicks securely into place.
2. To charge, connect the USB-C charging cable to the flash's USB-C port and to a compatible USB power source (e.g., power bank, wall adapter). The flash supports fast charging.

Batteria al Litio da 3000mAh e Ricarica USB C

Offre 420 lampi a piena potenza, un tempo di riciclo di 1,5 secondi e la cattura precisa di ogni momento.



Lampi a piena potenza
420 volte



Tempo di riciclo rapido
1,5 secondi



Capacità della batteria
3000mAh



Metodo di ricarica
Ricarica tramite USB C

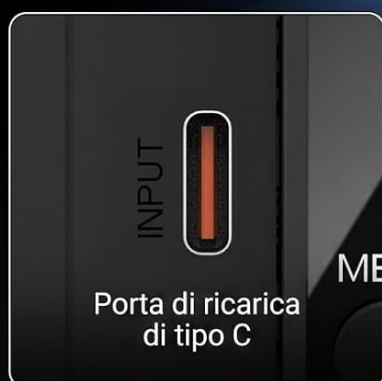


Image 3.1: Detail of the Q120's battery and USB-C charging port.

3.2 Mounting the Flash

Attach the Q120 flash to a light stand or camera hot shoe using the integrated tripod mount and metal handle. Adjust the tilting joint for optimal light positioning.

4. OPERATING MODES

The Q120 supports various flash modes to suit different photographic needs:

- **TTL (Through-The-Lens) Mode:** Provides automatic flash exposure, including HSS (High-Speed Sync) up to 1/8000s and first/second curtain synchronization. This mode simplifies exposure settings in dynamic environments.
- **M (Manual) Mode:** Allows manual power adjustment from 1/256 to 1/1, offering precise control over light output.
- **MULTI (Stroboscopic) Mode:** Emits a series of rapid flashes to capture multiple movements of a subject in a single frame.

TTL Preciso e HSS a 1/8000s

Consente l'esposizione automatica TTL supportando al contempo la sincronizzazione ad alta velocità fino a 1/8000 di secondo e la sincronizzazione sulla prima e sulla seconda tendina, gestendo con facilità diverse situazioni di ripresa.



Flash Automatico TTL a 1/125s
f/5.6 ISO 100



Sincronizzazione ad Alta Velocità a
1/8000s f/4.5 ISO 200

Image 4.1: The Q120's display interface and examples of TTL and HSS in action.

HSS a 1/8000s

Controlla l'esposizione dello sfondo e congela il movimento anche in condizioni di luce intensa.



2.5mm Jack di
sincronizzazione



Sincronizzazione
delle tendine
anteriori



Sincronizzazione
delle tendine
posteriori



Image 4.2: High-Speed Sync (HSS) at 1/8000s, demonstrating the ability to freeze motion.

5. WIRELESS CONTROL

5.1 2.4GHz Q System Integration

The Q120 features an integrated 2.4GHz Q System, allowing seamless operation with NEEWER QZ/QPRO triggers and other Q System flashes (Z3R, Z2PRO, Z880, Q6, Q4PRO series) within a 100m range.



Image 5.1: One-click connection to the NEEWER QZ trigger for wireless flash activation.

5.2 Godox X System Compatibility

As a receiver, the Q120 is compatible with Godox X System triggers (Xpro, X3, X2) and the Sekonic L-858D light meter.

Note: NEEWER Q System and Godox X System cannot be used simultaneously. Ensure firmware is updated for full compatibility.

105 Lampi Consecutivi a Piena Potenza

Grazie allo zoom regolabile da 28-105mm e al sistema di dissipazione del calore recentemente migliorato, supporta 70-105 lampi continui a piena potenza, garantendo un'emissione stabile senza degrado durante le riprese continue ad alta intensità.



Numero di lampi attivati per la protezione dal surriscaldamento a diverse lunghezze focali:

Lunghezza focale:	28mm	35mm	50mm	70mm	80mm	105mm
Protezione dal surriscaldamento Numero di lampi (a piena potenza):	70	75	80	90	100	105



Image 5.2: Compatibility overview with NEEWER Q System, Godox X System, and Sekonic L-858D.

5.3 App Control

Utilize the NEEWER App to adjust flash settings, manage multiple flash groups, and wirelessly update firmware for advanced control and convenience.

Compatibile con Godox Sistema X

5 Gruppi
(A, B, C, D, E)

CH1-CH32
Canali

1-99, OFF
ID

328ft/100m
Distanza di trasmissione



Compatibile con Godox Sistema X 2.4G e SEKONIC Esposimetro L-858D (moduli RT-GX)

- I sistemi Q e X non possono essere utilizzati contemporaneamente.
- Aggiorna il firmware per garantire la piena compatibilità.



Image 5.3: Wireless control of the Q120 via the NEEWER mobile application.

6. MODELING LAMP

The integrated 3W LED modeling lamp offers 10 levels of brightness adjustment. This allows you to preview the lighting effect and precisely control light and shadow before taking a shot.

Luce Pilota a LED da 3W

La luce pilota a LED integrata supporta 10 livelli di regolazione della luminosità, consentendo di visualizzare in anteprima e regolare l'effetto luminoso in anticipo, nonché di controllare con precisione luci e ombre dell'immagine.

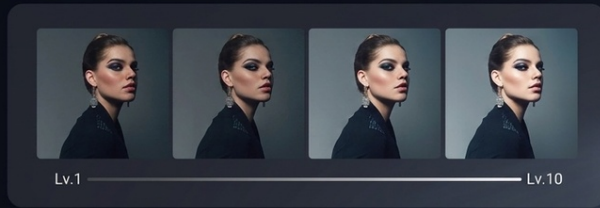


Image 6.1: The 3W LED modeling lamp with 10 adjustable brightness levels.

7. POWER AND CHARGING

The Q120 is powered by a 3000mAh lithium battery, providing up to 420 full-power flashes. It boasts a rapid recycle time of 1.5 seconds and a flash duration of 1/400-1/20000s for capturing fast-moving subjects. The USB-C port allows convenient charging from power banks during outdoor shoots.

Connessione al Trigger QZ con Un Clic

Compatibile con i NEEWER trigger QZ, che consentono un abbinamento rapido e l'attivazione wireless, migliorando notevolmente l'efficienza dell'illuminazione.



Image 7.1: Information on the 3000mAh battery capacity and USB-C charging method.

8. MAINTENANCE

To ensure the longevity and optimal performance of your NEEWER Q120 flash, follow these maintenance guidelines:

- Keep the flash tube and optical components clean and free from dust. Use a soft, dry cloth for cleaning.
- Store the flash in its carrying bag when not in use to protect it from impacts and environmental elements.
- For long-term storage, ensure the lithium battery is charged to approximately 50% and stored in a cool, dry place.
- Avoid exposing the flash to extreme temperatures or high humidity.

9. TROUBLESHOOTING

If you encounter issues with your NEEWER Q120 flash, consider the following common troubleshooting steps:

- **Flash not firing:** Check battery level. Ensure the flash is securely mounted and properly connected to the trigger or

camera. Verify that the flash mode and wireless settings are correctly configured.

- **Inconsistent exposure:** In TTL mode, ensure your camera's exposure settings are appropriate for the scene. In Manual mode, adjust flash power as needed. Check for obstructions between the flash and subject.
- **Wireless connection issues:** Ensure the flash and trigger are on the same channel and ID. Check the distance between devices; the maximum range is 100m. Update firmware if necessary.
- **Overheating:** The Q120 has an improved cooling system. If the flash indicates overheating, allow it to cool down before continued use. Reduce the frequency of full-power flashes if possible.

For persistent issues, refer to the official NEEWER support resources or contact customer service.

10. SPECIFICATIONS

Feature	Specification
Model	Q120
Flash Output Power	120Ws
Flash Modes	TTL, M, MULTI
Sync Modes	HSS (up to 1/8000s), First/Second Curtain Sync
Recycle Time	Approx. 1.5s (at full power)
Flash Duration	1/400 - 1/20000s
Full Power Flashes	Up to 420
Battery Capacity	7.2V / 3000mAh Lithium Battery
Charging Port	USB-C
Color Temperature	5800K (±100K)
Modeling Lamp	3W LED, 10 levels adjustable
Wireless Frequency	2.4GHz
Wireless Range	Up to 100m
Dimensions (DxWxH)	14.2 x 8.1 x 14.2 cm (5.6 x 3.2 x 5.6 inches)
Weight (with battery)	815 grams (1.8 lbs)
Compatible Devices	Nikon, Canon, Sony, Godox, NEEWER QZ/QPro, Godox Xpro/X3/X2, Sekonic L-858D

Specifiche

Modello:	Q120	Flash continui a piena potenza:	70-105
Modalità flash:	M/MULTI (Wireless Off), TTL/M/MULTI (Modalità wireless 2.4G)	Modalità di sincronizzazione:	Sincronizzazione ad alta velocità, Sincronizzazione sulla prima/seconda tendina
Compatibilità dell'unità slave radio:	Compatibile con Nikon Canon Sony	Tempo di riciclo:	Circa 1,5s (massima potenza)
Potenza di uscita flash:	120Ws 120Ws	Metodo di attivazione:	2.4G/Trigger ottico S1/Trigger ottico S2/Porta di sincronizzazione da 2,5mm
Durata del flash:	1/400-1/20000s	ID:	01-99
Potenza del flash:	1/256-1/1	Canali:	01-32
Flash ritardato:	0,01~30s	Alimentazione:	Batteria al litio da 7,2V / 3000mAh
Attivazione ottica:	S1/S2	Flash a piena potenza :	420
Gruppi controllati in modalità wireless:	A, B, C, D, E	Color Temperatura colore:	5800K (±100K)
Portata di trasmissione wireless:	100m	Dimensioni:	81 x 81 x 143mm
Luminosità della Brightness:	1-10 livelli	Peso (con batteria):	671g
Potenza della luce pilota:	3W		

Image 10.1: Comprehensive technical specifications of the NEEWER Q120.

11. WARRANTY AND SUPPORT

The NEEWER Q120 comes with a 1-year manufacturer's warranty. For warranty claims, technical support, or service inquiries, please contact NEEWER customer service through their official website or the retailer where the product was purchased. Keep your proof of purchase for warranty validation.

For additional resources and product information, visit the official NEEWER store:[NEEWER Store](#)

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