GODOX V850II

Godox V850II GN60 2.4G High-Speed Sync Flash Speedlite User Manual

1. Introduction

Thank you for purchasing the Godox V850II Flash. This manual provides detailed instructions for the safe and effective operation of your flash unit. The V850II is a powerful manual flash with a built-in Godox 2.4G wireless X system, offering high-speed sync capabilities and a robust lithium-ion battery for extended use. Please read this manual carefully before use to ensure optimal performance and to prevent damage.

2. Safety Precautions

- Do not disassemble or modify this product. High voltage components are present.
- Keep this product dry. Do not handle with wet hands or immerse in water.
- Do not use the flash unit in the presence of flammable gases, chemicals, or other materials.
- Do not touch the flash tube after continuous firing to avoid burns.
- Keep out of reach of children.
- Always turn off the power before installing or removing the battery.

3. Product Overview

3.1 Components

The Godox V850II flash unit includes the main flash body, a lithium-ion battery, a battery charger, and a mini stand. Optional accessories like diffusers and wireless triggers may be included depending on the kit.



Image 3.1: The Godox V850II flash unit shown with its standard accessories, including the flash body, a softbox diffuser, a lithium-ion battery, a battery charger with power cable, a mini stand, and a protective pouch.

3.2 Control Panel and Display

The rear of the flash features an LCD panel and various buttons for controlling settings such as power output, zoom, mode, and wireless functions.



Image 3.2: A side view of the Godox V850II flash, highlighting the LCD display and control buttons for adjusting flash settings.



Image 3.3: A close-up view of the Godox V850II's LCD screen, showing typical settings like power output (1/32), zoom (85mm), and wireless channel. Also visible is the 2.5mm sync socket/wireless control port on the side.

4. Setup

4.1 Battery Installation

1. Ensure the flash unit is powered off.
2. Locate the battery compartment on the side of the flash body.
3. Press the battery release button and slide the battery cover open.
4. Insert the Godox VB18 Li-ion battery, ensuring the contacts align correctly.
5. Close the battery cover until it clicks securely.



Image 4.1: The Godox V850II flash unit with its battery compartment open, showing the slot for the lithium-ion battery.

4.2 Charging the Battery

Use the provided charger to charge the VB18 lithium-ion battery. Connect the charger to a power outlet and insert the battery. The indicator lights on the charger will show the charging status.



Image 4.2: The Godox V850II flash unit alongside its VB18 lithium-ion battery and dedicated charger, illustrating the charging components.

4.3 Mounting to Camera

1. Slide the flash hot shoe into your camera's hot shoe mount.
2. Rotate the locking ring on the flash base clockwise to secure the flash firmly to the camera.

5. Operating Modes

The Godox V850II supports various flash modes to suit different shooting scenarios.

5.1 M Mode (Manual Flash)

In M mode, you manually set the flash power output from 1/1 (full power) to 1/128 in 1/3 stop increments. Use the SELECT dial to adjust the power level.

5.2 Multi Mode (Stroboscopic Flash)

Multi mode allows the flash to fire a series of rapid flashes during a single exposure, useful for capturing multiple movements of a subject in one frame. You can set the flash frequency (Hz), number of flashes, and flash power.

5.3 S1/S2 Mode (Optical Slave)

These modes allow the V850II to be triggered by another flash. S1 mode triggers the flash upon sensing the first flash. S2 mode ignores the pre-flash of a TTL system and triggers on the main flash.

5.4 2.4G Wireless X System (Master/Slave)

The V850II features a built-in 2.4G wireless X system, enabling it to function as a master or slave unit with other Godox X system devices. This allows for advanced off-camera flash control.

- **Master Mode:** Control other Godox slave flashes.
- **Slave Mode:** Be controlled by a Godox master unit (e.g., X1T, X2T, XPro trigger).



Image 5.1: The Godox V850II flash unit shown in conjunction with a Godox X1T wireless trigger mounted on a camera, demonstrating its compatibility with the 2.4G wireless X system for remote flash control.

6. Advanced Features

6.1 High-Speed Sync (HSS)

When used with a compatible Godox X system trigger (e.g., X1, X2, XPro), the V850II can achieve shutter speeds up to 1/8000s, allowing for wider apertures in bright conditions or freezing fast motion.

6.2 Zoom Function

The flash head's zoom position can be adjusted manually from 20mm to 200mm to match the lens focal length, optimizing light coverage. Press the ZOOM/Fn button and use the SELECT dial to adjust.

6.3 Custom Functions (C.Fn)

The V850II includes custom function settings that allow you to personalize various flash behaviors, such as beep sound, standby time, and more. Refer to the on-screen menu for available options.

7. Maintenance

- Clean the flash unit regularly with a soft, dry cloth. Do not use solvents or harsh chemicals.
- Store the flash in a dry, cool place away from direct sunlight and extreme temperatures.
- Remove the battery if the flash will not be used for an extended period.

- Avoid strong impacts or dropping the unit.

8. Troubleshooting

Problem	Possible Cause	Solution
Flash does not fire.	Low battery, incorrect mode, flash not securely mounted, trigger issue.	Charge battery, check mode settings (M, Multi, S1/S2, Wireless), ensure secure hot shoe connection, verify trigger functionality.
Flash output is inconsistent.	Overheating, low battery, interference in wireless mode.	Allow flash to cool down, charge battery, change wireless channel or group.
High-Speed Sync not working.	Incompatible trigger, HSS not enabled on trigger/camera.	Ensure a compatible Godox X system trigger is used and HSS is activated on both the trigger and camera settings.

9. Specifications

- **Guide Number (GN):** 60 (m ISO 100, @200mm)
- **Power Output:** 1/1 to 1/128 (22 steps)
- **Flash Coverage:** 20 to 200mm (Auto/Manual Zoom)
- **Recycle Time:** Approx. 1.5 seconds (at full power)
- **Full Power Flashes:** Approx. 650
- **Wireless Flash Function:** Master, Slave, Off
- **Wireless Groups:** 5 (A, B, C, D, E)
- **Wireless Channels:** 32 (1-32)
- **High-Speed Sync:** Up to 1/8000s (with compatible trigger)
- **Power Source:** Godox VB18 Li-ion Battery (11.1V/2000mAh)
- **Dimensions:** 10.3 x 9.1 x 3.3 inches
- **Weight:** 2.29 pounds (with battery)

10. Warranty and Support

For warranty information and technical support, please refer to the official Godox website or contact your authorized dealer. Keep your purchase receipt as proof of purchase for warranty claims.