GODOX Godox TT600S

GODOX TT600S Camera Flash Speedlight User Manual

Model: Godox TT600S | Brand: GODOX

1. Introduction

Thank you for purchasing the GODOX TT600S Camera Flash Speedlight. This manual provides detailed instructions on the operation, features, and maintenance of your flash unit. The TT600S is a powerful and versatile flash designed for Sony cameras with a Multi Interface Hotshoe, offering a high guide number, various flash modes, and integrated 2.4G wireless X system for enhanced creative control.



Figure 1.1: GODOX TT600S Flash Unit and Included Accessories.

2. Key Features

- **Built-in Godox 2.4G Wireless X System:** Offers stable output and 100 meters further transmission. Functions as both a master and slave unit with 1-32 channels.
- **High Guide Number (GN60):** Provides powerful illumination (m ISO 100, @105mm).
- **Versatile Power Output:** 22 steps of power output (1/1 to 1/128).
- **Fast Recycle Time:** Approximately 0.1-2.6 seconds recycle time.
- **Long Battery Life:** Up to 230 full power flashes using 2500mAh Ni-MH batteries.
- **Multiple Flash Modes:** Supports Manual (M), Multi (Stroboscopic), S1, and S2 optical slave modes.
- **High-Speed Sync (HSS):** Achieves 1/8000s high-speed sync when used with compatible Godox X-system triggers (e.g., X1T-S, X2T-S, XPRO-S). Note: HSS is not available when the TT600S is mounted directly on the camera.
- **Auto/Manual Zoom:** Covers 20-200mm focal lengths.
- **Convenient LCD Panel:** High-resolution display for clear and easy operation, including C.Fn custom function settings.
- **Additional Functions:** Focus assist lamp, buzz function, overtemperature protection.



Wide-angle Diffuser

Pull out the diffuser to spread the light and cover a wider range of fill light

AA Battery

Approx. 0.1-2.6s recycle time, 230 full power flashes (using 2500mAh Ni-MH batteries)





LED LCD screen

Big and Clear LCD Panel Offers Convenient Operation. With C.Fn custom function settings.

Figure 2.1: Detailed views of the TT600S features, including the pull-out diffuser, battery compartment, and LCD screen.

3. Setup

3.1 Battery Installation

The TT600S uses four AA batteries. For optimal performance and recycle times, it is recommended to use 2500mAh Ni-MH rechargeable batteries.

1. Open the battery compartment cover located on the side of the flash unit.
2. Insert four AA batteries according to the polarity indicators (+/-) inside the compartment.
3. Close the battery compartment cover securely.

3.2 Mounting the Flash

The TT600S is designed to mount onto the Multi Interface Hotshoe of Sony cameras or onto a light stand with a hotshoe adapter.

1. Ensure the flash unit is powered off.
2. Slide the flash's hotshoe foot into the camera's hotshoe slot.
3. Rotate the locking ring on the flash foot clockwise until it is securely tightened. Do not overtighten.



Figure 3.1: GODOX TT600S mounted on a camera.

4. Operating Modes

4.1 Manual Mode (M)

In Manual mode, you set the flash output power manually from 1/1 (full power) to 1/128 in 1/3 stop increments. This mode offers precise control over flash exposure.

- Press the **MODE** button until 'M' is displayed on the LCD.
- Use the **SELECT DIAL** to adjust the power output.

4.2 Multi Mode (Stroboscopic Flash)

Multi mode fires a series of rapid flashes to capture multiple images of a moving subject in a single photograph.

- Press the **MODE** button until 'Multi' is displayed.
- Set the flash frequency (Hz), number of flashes, and flash output using the **SELECT DIAL** and **SET** button.

4.3 S1/S2 Optical Slave Modes

These modes allow the TT600S to be triggered by another flash unit without a physical connection.

- **S1 Mode:** The flash will fire in response to the first flash from a master flash. Suitable for manual flash units.
- **S2 Mode:** The flash will ignore the pre-flash from a TTL master flash and fire on the main flash. Useful for TTL systems.
- Press the **MODE** button until 'S1' or 'S2' is displayed.

4.4 High-Speed Sync (HSS)

HSS allows the flash to synchronize with shutter speeds up to 1/8000s, enabling flash use in bright conditions or with wide apertures.

- HSS functionality requires the use of a compatible Godox X-system trigger (e.g., X1T-S, X2T-S, XPRO-S) mounted on the camera.
- The TT600S itself does not support HSS when mounted directly on the camera hotshoe.



Figure 4.1: Illustrations of various flash synchronization modes.

4.5 Zoom Function

The flash head's zoom position can be adjusted to match the focal length of your lens, optimizing light coverage.

- Press the **ZOOM/Fn** button.
- Use the **SELECT DIAL** to adjust the zoom from 20mm to 200mm.
- The flash also supports auto-zoom when mounted on a compatible camera.

5. Maintenance

Proper maintenance ensures the longevity and optimal performance of your GODOX TT600S flash unit.

- **Cleaning:** Use a soft, dry cloth to clean the flash body. For stubborn dirt, a slightly damp cloth can be used, followed by a dry one. Do not use solvents or abrasive cleaners.
- **Flash Tube:** Avoid touching the flash tube directly with bare hands, as oils can cause uneven heating and shorten its lifespan. If touched, clean with a lint-free cloth and alcohol.
- **Storage:** When not in use for extended periods, remove the batteries to prevent leakage. Store the flash in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Handling:** Handle the flash with care. Avoid dropping or subjecting it to strong impacts, which can damage internal components.

6. Troubleshooting

If you encounter issues with your TT600S, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
Flash does not fire.	Low battery power; Incorrect mode; Flash not securely mounted; Wireless trigger issue.	Replace or recharge batteries; Check flash mode (M, S1/S2); Ensure flash is locked onto hotshoe; Verify wireless trigger settings and battery.
Flash output is too weak/strong.	Incorrect power setting; ISO/aperture mismatch; Distance to subject.	Adjust manual power output; Check camera ISO and aperture settings; Move closer or further from subject.
Long recycle time.	Low battery power; High power output setting.	Replace or recharge batteries; Reduce flash power output.
Flash overheats.	Excessive continuous firing.	Allow the flash to cool down. The overtemperature protection will activate and temporarily disable firing.

7. Specifications

Feature	Specification
Model	Godox TT600S
Guide Number (GN)	60 (m ISO 100, @105mm)
Flash Coverage	20 to 200mm (Auto/Manual Zoom)
Flash Duration	1/300 to 1/20000 seconds
Exposure Control System	Manual flash, Multi flash
Wireless Flash Function	Master, Slave, Off
Controllable Slave Groups	5 (A, B, C, D, E)
Transmission Range (approx.)	100m (328 feet)

Feature	Specification
Channels	32 (1-32)
Power Source	4x AA batteries (Ni-MH or Alkaline recommended)
Recycle Time	Approx. 0.1-2.6 seconds (Ni-MH batteries)
Full Power Flashes	Approx. 230 (2500mAh Ni-MH batteries)
Dimensions (W x H x D)	Approx. 7.95 x 3.54 x 3.23 inches
Weight (without batteries)	Approx. 1.25 pounds

8. Warranty and Support

GODOX products are manufactured to high quality standards and are guaranteed against manufacturing defects. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official GODOX website. For technical support, troubleshooting assistance, or service inquiries, please contact GODOX customer service or your authorized dealer.

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Example: How do I reset this device or fix this error?

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Model number, symptoms, what you tried, or the section of the manual you are using.

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