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GODOX TT520III

Godox TT520III Camera Flash Speedlite Instruction Manual

Model: TT520III

INTRODUCTION

This instruction manual provides detailed guidance for the safe and effective use of your Godox TT520III Camera Flash Speedlite. Please read this manual thoroughly before operation to ensure optimal performance and to prevent damage to the unit.

WHAT'S IN THE BOX

- Camera Flash
- RT Transmitter
- Mini Stand
- Storage Bag

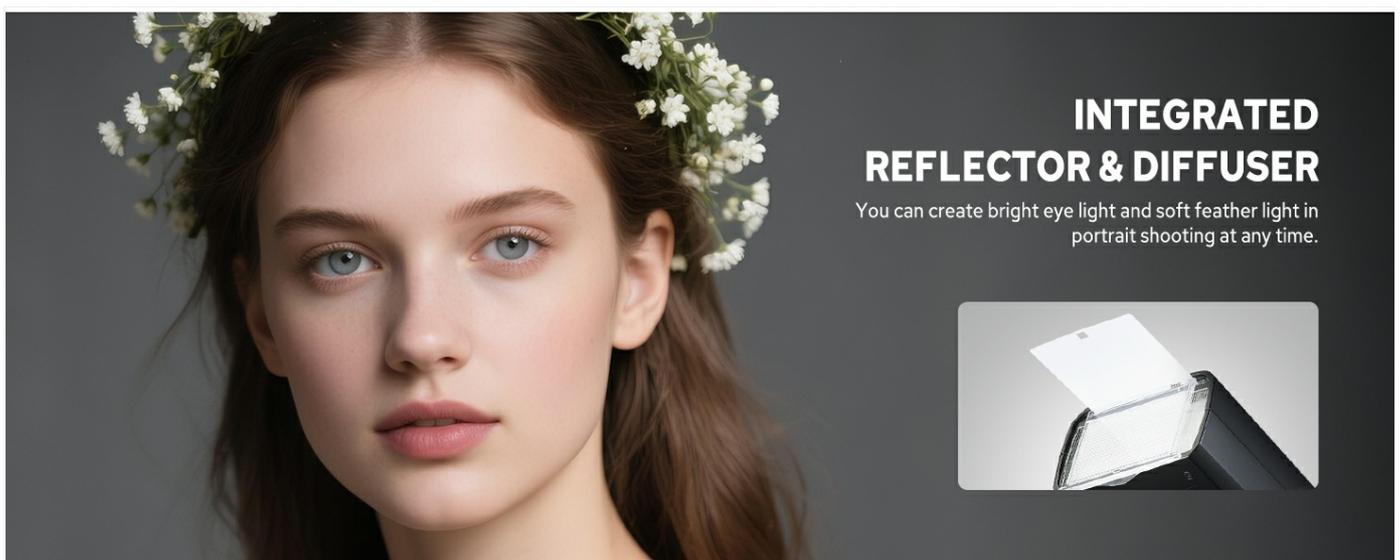


Figure 1: Package contents of the Godox TT520III, showing the flash unit, RT transmitter, mini stand, and storage bag.

SETUP

1. Battery Installation

The Godox TT520III flash unit requires 4 AA (LR6) or NiMH batteries (sold separately). Open the battery compartment by pressing the 'BATT PUSH' button and inserting the batteries according to the polarity indicators inside the compartment. Close the cover securely.

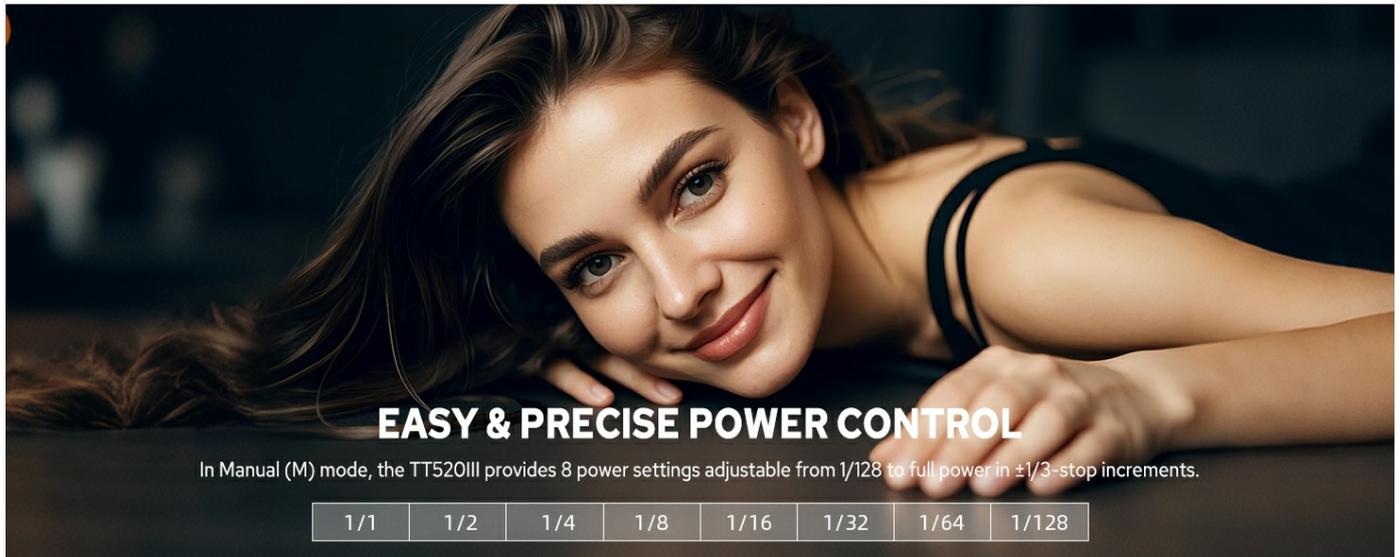


Figure 2: Proper battery installation for the TT520III flash unit.

2. Mounting the Flash

Attach the flash unit to your camera's hotshoe. The TT520III features a single-contact hotshoe design, making it compatible with most camera brands including Canon, Sony, Nikon, Fujifilm, Panasonic, and Olympus. Ensure the flash is securely mounted before use. **Note:** This flash does not support TTL (Through-The-Lens) metering or camera menu setting functions.



ADJUSTABLE FLASH HEAD

With a rotatable flash head that adjusts horizontally from 0° to 330° and vertically from -7° to 120°.



Figure 3: The TT520III flash mounted on a camera, highlighting its universal hotshoe compatibility.



4 AA NiMH Batteries

The TT520III battery compartment holds 4 AA Ni-MH batteries (Sold Separately) for quick and easy battery changes at any time.

 1.8s Recycle Time
  400 Full Power Flashes



PB960 Power Box

Equipped with a quick-charge port, the TT520III can be connected to the optional PB960 power box (sold separately) to shorten recycle times and increase flash counts.

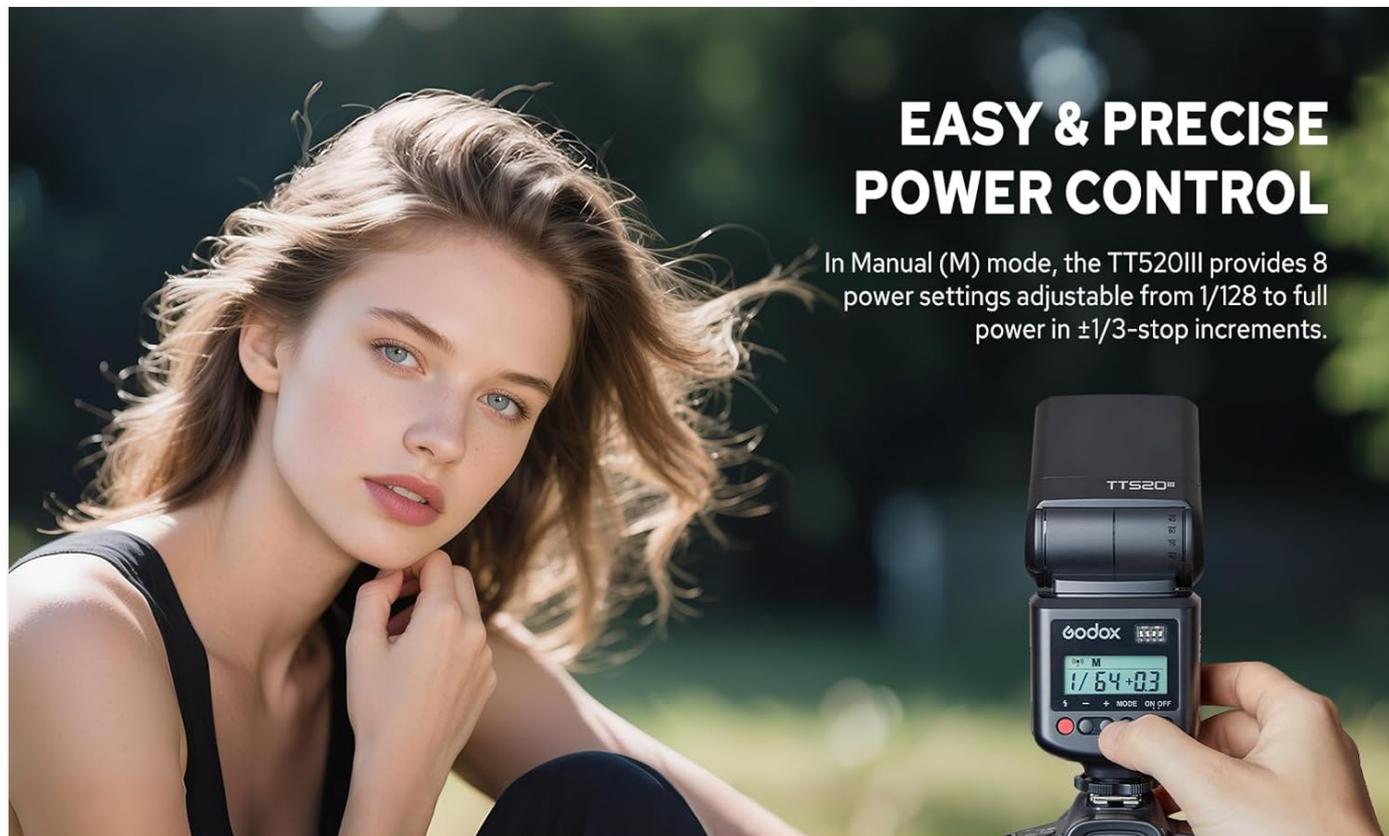
Figure 4: Hotshoe compatibility guide for the TT520III.

OPERATING INSTRUCTIONS

1. Power On/Off and Mode Selection

Press the **ON/OFF** button to power the flash unit on or off. The TT520III offers multiple flash triggering options:

- **Manual (M) Mode:** In this mode, you can manually adjust the flash output from 1/128 to full power in $\pm 1/3$ -stop increments. Use the "+" and "-" buttons to adjust the power.
- **S1/S2 Optical Sync Modes:** Short-press the **MODE** button to toggle between S1 and S2 optical sync modes. These modes allow the flash to be triggered by another flash unit.



FLEXIBLE FLASH MODES

Use it as an on-camera flash, trigger it with the RT transmitter, or take advantage of S1/S2 optical sync. Additionally, it features a PC sync port for wired control.



Figure 5: Adjusting flash power in Manual mode.

2. 433MHz Wireless Triggering

The TT520III features a built-in 433MHz wireless receiver system. To activate wireless triggering, long-press the **MODE** button on the flash unit. Use the included RT-16 transmitter to trigger the flash wirelessly. Ensure the channel settings on both the flash and the transmitter match for proper synchronization. The RT-16 transmitter has 16 channels.

433MHz WIRELESS TRIGGERING

Built-in 433MHz wireless receiver system, with the standard RT transmitter can realize 16-channel wireless flash.



Figure 6: Wireless triggering setup with the RT-16 transmitter and TT520III flash.

433MHz WIRELESS TRIGGERING

Built-in 433MHz wireless receiver system, with the standard RT transmitter can realize 16-channel wireless flash.

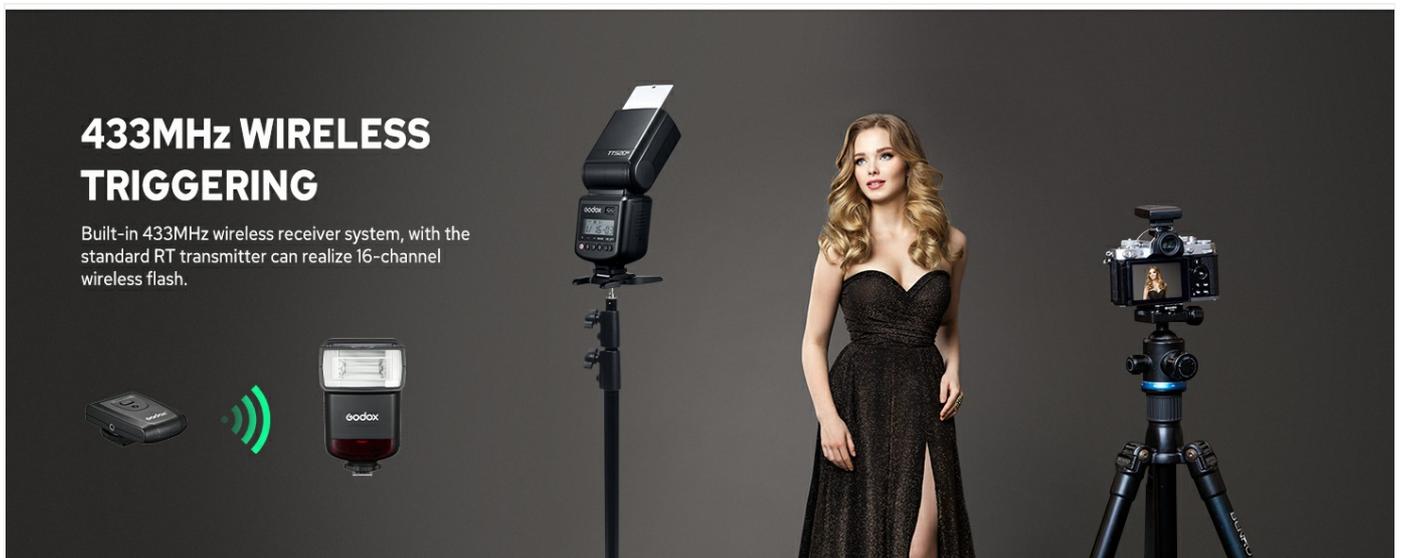


Figure 7: Diagram illustrating 433MHz wireless triggering.

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Video 1: This video demonstrates the installation of batteries, mounting the flash on a camera, adjusting flash power in M mode, toggling S1/S2 optical sync modes, and setting up 433MHz wireless triggering with the RT-16 transmitter. It also shows connecting an external power pack and using the PC sync port.

3. External Power & PC Sync

- **External Power:** The flash unit includes a power box port compatible with the optional PB960 power pack (sold separately). Connecting an external power pack can significantly shorten recycle times and increase the number of flashes.
- **PC Sync Port:** A PC sync port is provided for wired camera-to-flash synchronization, offering an alternative to hotshoe or wireless triggering.

FEATURES OVERVIEW

- **Universal Hotshoe:** Compatible with Canon, Sony, Nikon, Fujifilm, Panasonic, Olympus, and other cameras with a single-contact hotshoe.
- **433MHz Wireless Triggering:** Built-in wireless transmission with an RT-16 transmitter offering 16 channels for reliable synchronization.
- **Flexible Flash Modes:** Operates as an on-camera flash, with RT transmitter, or via S1/S2 optical sync. Includes a PC sync port for wired control.
- **Bright Output & Quick Recycle:** Guide Number (GN) 33 (ISO 100, in meters). Delivers up to 400 full-power flashes with a recycle time of approximately 1.8 seconds. Flash duration ranges from 1/510 to 1/31000 seconds.
- **Easy & Precise Power Control:** Manual (M) mode offers 8 power settings from 1/128 to full power in $\pm 1/3$ -stop increments. Features a clear display for easy setting adjustments.
- **Adjustable Flash Head:** The flash head can be rotated horizontally from 0° to 330° and vertically from -7° to 120° for flexible light positioning.



Figure 8: Key features of the Godox TT520III flash.



Figure 9: Performance specifications of the TT520III flash.

UNIVERSAL HOTSHOE DESIGN

Featuring a single contact hotshoe design, the TT520III is widely compatible with Canon, Sony, Nikon, Fujifilm, Panasonic, Olympus, and other cameras.



Note: This flash cannot be used with cameras without single-contact hotshoe.



Figure 10: Adjustable flash head positions for versatile lighting.

EXPANDABLE ACCESSORIES

The Godox TT520III is designed to be compatible with various accessories to enhance your lighting capabilities:

- **PB960 Power Box:** Connects to the flash unit for faster recycle times and extended flash duration.
- **AK-R1 Magnetic Modifiers:** Use S-R1/S-R2 adapters to attach Godox AK-R1 magnetic round-head accessories such as diffusers, grids, and snoots.
- **S2 Bracket:** Attach the optional S2 bracket for Bowens-mount modifiers like softboxes and reflectors.



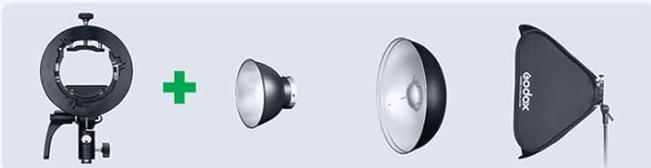
4 AA NiMH batteries

(Sold Separately)



PB960 power box

(Sold Separately)



S/S2
Bracket



RFT-13
Pro Standard Reflector
(Bowens mount)

S65T
Quick Release
Umbrella Softbox

SFUV
Softbox



S-R1/S-R2
Adapters



AK-R1

Note: The above accessories need to be purchased separately.



Figure 11: Compatible accessories for the TT520III flash unit.

SPECIFICATIONS

Feature	Specification
Model	TT520III
Guide Number (GN)	Approx. 33 (ISO 100, in meters)
Photocell Modes	S1/S2
Vertically Rotatable Flash Angle	-7° to 120°
Horizontally Rotatable Flash Angle	0° to 330°
Battery	Four AA NiMH batteries (recommended) / LR6 alkaline batteries
Flash Duration (t0.1)	1/510s to 1/31000s

Feature	Specification
Time of Flashes (1/1 step)	Approx. 400 (NiMH batteries)
Recycle Time (1/1 step)	Approx. 1.8s (NiMH batteries)
Wireless Channels	16 groups
Wireless Transmission Frequency	433MHz
Wireless Transmission Distance (Max.)	Approx. 15m
Dimensions	7.17" x 2.91" x 2.83" (Package Dimensions: 8.7 x 3.46 x 2.83 inches)
Net Weight	Approx. 304g (Item Weight: 15.8 ounces)
Manufacturer	GODOX

RT-16 Transmitter Specifications

Feature	Specification
Power Source	23A (12V) Li-ion battery
Wireless Transmission Distance (Max.)	Approx. 20m (indoor) / Approx. 30m (outdoor)
Wireless Frequency	433MHz
Dimensions	2.36" x 1.65" x 1.18"
Net Weight	Approx. 31g

TROUBLESHOOTING

If you encounter issues with your Godox TT520III, please refer to the following common solutions:

- **Flash not firing:**

- Ensure batteries are correctly installed and charged.
- Check if the flash is powered on.
- Verify that the flash is securely mounted on the camera hotshoe or that wireless channels match if using the RT transmitter.
- If using optical sync (S1/S2), ensure the master flash is firing correctly and the sensor on the TT520III is unobstructed.

- **Inconsistent flash output:**

- Check battery levels; low batteries can affect flash consistency.
- Ensure flash settings (power level) are appropriate for your shooting conditions.

- **Wireless triggering issues:**

- Confirm that both the flash and the RT transmitter are set to the same channel.
- Ensure there are no significant obstructions between the transmitter and the flash.
- Check the battery in the RT transmitter.

For further assistance, please contact Godox customer support.

WARRANTY AND SUPPORT

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

Manufacturer: GODOX

Date First Available: April 29, 2025



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