GODOX TT520III

Godox TT520III Manual Flash with RT-16 Wireless Transmitter

INSTRUCTION MANUAL



Image: Godox TT520III Manual Flash unit, RT-16 wireless transmitter, mini stand, and storage bag.

Introduction

The Godox TT520III is a versatile manual flash unit designed for various camera systems, offering reliable illumination and flexible triggering options. This manual provides detailed instructions for its setup, operation, and maintenance, ensuring optimal performance and longevity of your device.

Safety Information

- Do not disassemble or modify the unit. Repairs should only be performed by authorized service personnel.
- Keep the unit dry. Do not expose it to rain or moisture.
- Do not touch the flash tube after firing to avoid burns.
- Use only specified batteries (4 AA NiMH batteries). Incorrect battery types may cause leakage or explosion.
- Keep out of reach of children.

What's in the Box

- 1 x GODOX TT520III Camera Flash
- 1 x RT Remote Transmitter
- 1 x Mini Stand
- 1 x Storage Bag
- 1 x Filters Set



Image: The complete set of items included with the Godox TT520III flash, including the flash unit, wireless transmitter, stand, and bag.

Setup

1. Battery Installation

The TT520III flash unit requires four AA NiMH batteries. Open the battery compartment cover on the side of the flash and insert the batteries according to the polarity indicators. Close the cover securely.



Image: A hand demonstrating the correct way to insert AA batteries into the flash unit's battery compartment.

2. Mounting the Flash to Your Camera

Slide the TT520III's hot shoe onto your camera's hot shoe mount. Secure it by tightening the locking ring or lever (if present) on the flash unit. The universal hot shoe design ensures compatibility with most cameras including Canon, Nikon, Sony, Pentax, Olympus, Fuji, and Panasonic.



Image: Two cameras, one with a Godox TT520III flash mounted on its hot shoe, demonstrating the universal hot shoe design.

3. RT-16 Wireless Transmitter Setup

Insert the RT-16 wireless transmitter into your camera's hot shoe. Ensure both the flash and transmitter are set to the same channel for wireless synchronization. The TT520III features an integrated 433MHz receiver for 16-channel wireless triggering.



Image: A Godox TT520III flash on a light stand and an RT-16 wireless transmitter mounted on a camera, illustrating wireless triggering.

Operating Instructions

1. Power On/Off

To power on the flash, slide the ON/OFF switch to the 'ON' position. The display will illuminate. To power off, slide the switch to 'OFF'.

2. Manual (M) Mode and Power Control

In Manual (M) mode, you can adjust the flash output from 1/128 to full power in 1/3-stop increments. Use the '+' and '-' buttons to increase or decrease the power level. The current setting is displayed on the LCD screen.

Easy & Precise Power Control

In Manual (M) mode, the TT520III provides 8 power settings adjustable from 1/128 to full power in ±1/3-stop increments, allowing for exquisite control over light and shadow. The all-new display makes it easy to view and adjust settings, enhancing operational efficiency.



Image: A close-up of a hand interacting with the control panel of the Godox TT520III flash, showing the power level display.

3. Flexible Flash Modes (S1/S2 Optical Sync)

The TT520III offers multiple triggering options:

- **On-Camera Flash:** Mount directly to your camera's hot shoe.
- **Wireless Triggering:** Use the RT-16 transmitter for off-camera flash.
- **S1 Mode:** The flash will fire in response to the first flash from a master flash.
- **S2 Mode:** The flash will ignore the pre-flash of a master flash and fire on the second flash, suitable for cameras with pre-flash functions.
- **PC Sync Port:** For wired synchronization with cameras or triggers.

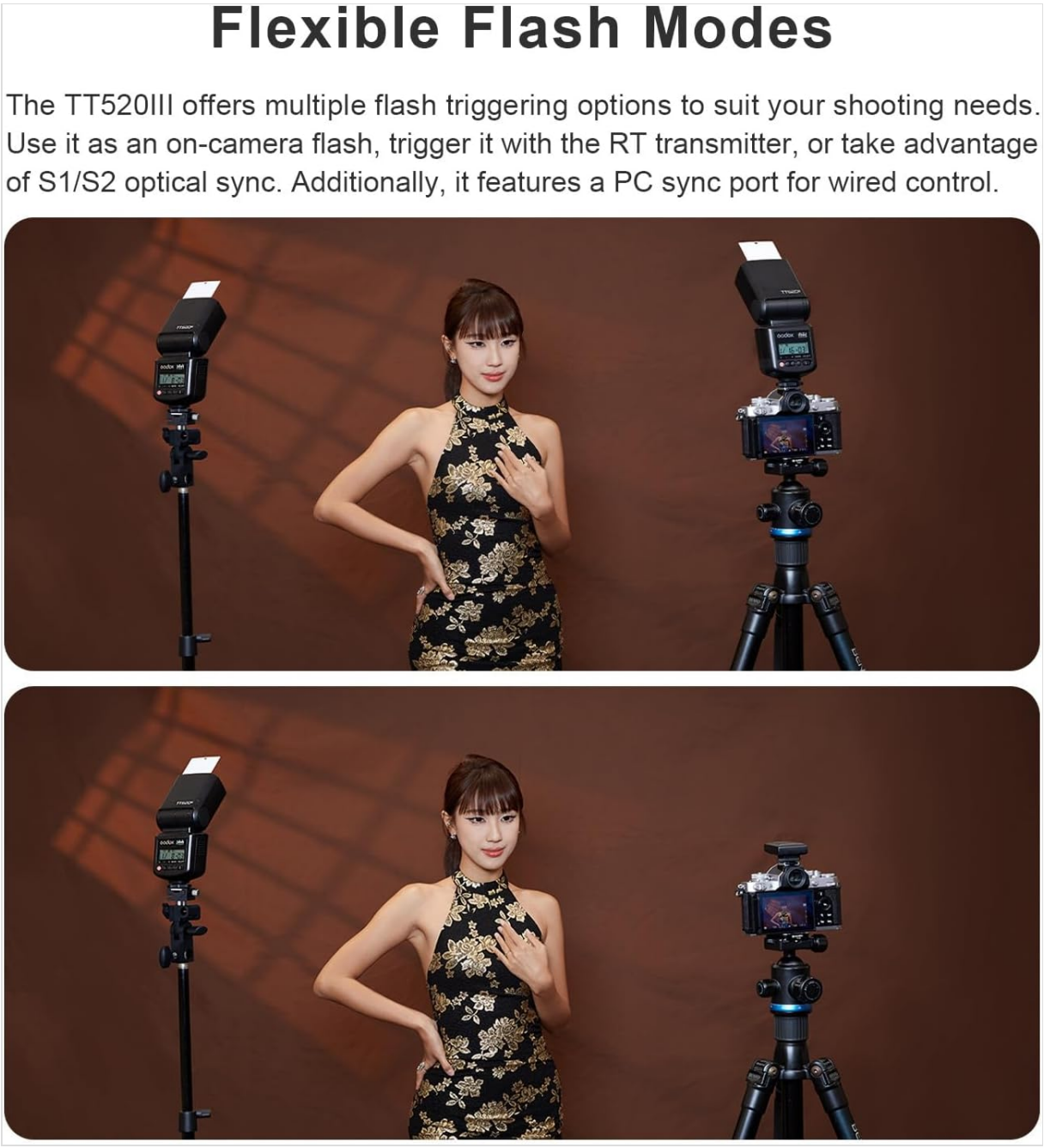


Image: Two comparative images showing a model being photographed with the Godox TT520III flash used in different off-camera setups.

4. Adjustable Flash Head

The flash head can be rotated horizontally from 0° to 330° and tilted vertically from -7° to 120°. This allows for direct flash, bounce flash off ceilings or walls, and other creative lighting techniques.



Image: A visual representation of the Godox TT520III flash head's rotational and tilt capabilities, showing various angles.

5. Bright Output and Quick Recycle

The TT520III boasts a Guide Number of 33 (ISO100, in meters). It delivers up to 400 full-power flashes on NiMH batteries with a recycle time of approximately 1.8 seconds. The flash duration ranges from 1/510 to 1/31000 seconds, ensuring sharp, well-captured images.



Image: A photograph of a person outdoors, illustrating the effective use of flash for bright and clear images.

Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the flash unit. For stubborn dirt, a slightly damp cloth can be used, followed by a dry one. Do not use solvents or harsh chemicals.
- **Storage:** When not in use for extended periods, remove the batteries to prevent leakage. Store the unit in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Flash Tube:** Avoid touching the flash tube directly with bare hands, as oils can reduce its lifespan.

Troubleshooting

- **Flash not firing:**
  - Check if the flash is powered on.
  - Ensure batteries are correctly inserted and charged.
  - Verify the flash is securely mounted on the hot shoe or that the wireless trigger/PC sync cable is properly connected.
  - If using wireless triggering, confirm the flash and transmitter are on the same channel.

- **Flash output is too weak/strong:**
  - Adjust the power level in Manual (M) mode.
  - Consider camera ISO settings and aperture.
- **Slow recycle time:**
  - Ensure batteries are fully charged or replace them.
  - Lower the flash power output.
  - Consider using an optional external power pack like the PB960 (sold separately) for faster recycling.

Specifications

Model	TT520III
Guide Number (GN)	33 (ISO100, in meters)
Flash Modes	M, S1, S2
Power Output	8 levels (1/128 - 1/1) with 1/3-stop increments
Wireless Triggering	433MHz, 16 Channels (with RT-16 transmitter)
Vertical Rotation Angle	-7° to 120°
Horizontal Rotation Angle	0° to 330°
Flash Duration	1/510s - 1/31000s
Recycle Time	Approx. 1.8s (with NiMH batteries)
Power Source	4 x AA NiMH batteries
Dimensions	2.15 x 2.95 x 7.5 inches
Weight	1.2 pounds

Optional Accessories

Enhance the functionality and creative possibilities of your Godox TT520III with these optional accessories (sold separately):

- **S-R1/S-R2 Round Head Adapters:** For compatibility with Godox AK-R1 magnetic accessories.
- **Godox AK-R1 Magnetic Accessories:** A kit of modifiers including diffusers, grids, and color filters.
- **S/S2 Flash Bracket:** Allows attachment of Bowens-mount modifiers like softboxes, reflectors, and snoots.
- **PB960 Power Box:** An external power source to shorten recycle times and increase flash counts.



Image: The Godox TT520III flash alongside a selection of optional accessories, including adapters, magnetic modifiers, and a Bowens-mount bracket.



Image: The Godox TT520III flash unit connected to the optional PB960 external power box, designed for extended use and faster recycling.

Warranty and Support

For warranty information and technical support, please refer to the warranty card included with your product or visit the official GODOX website. Keep your purchase receipt as proof of purchase for any warranty claims.