GODOX TT520 III

GODOX TT520 III Universal On-Camera Flash Speedlite Instruction Manual

Model: TT520 III

1. Introduction

Thank you for purchasing the GODOX TT520 III Universal On-Camera Flash Speedlite. This manual provides detailed instructions for the proper use and maintenance of your flash unit. The TT520 III is a versatile manual flash designed for various camera systems, offering powerful illumination and flexible control for diverse photographic needs. It features a built-in 433MHz wireless receiver for off-camera control and S1/S2 optical slave modes.



Image 1.1: The GODOX TT520 III Flash Speedlite, including the AT-16 wireless trigger, mini stand, and storage bag.

2. Product Overview

2.1. Components Included

- 1 x GODOX TT520 III Flash Speedlite
- 1 x AT-16 433MHz Wireless Trigger Transmitter
- 1 x Mini Stand
- 1 x Storage Bag

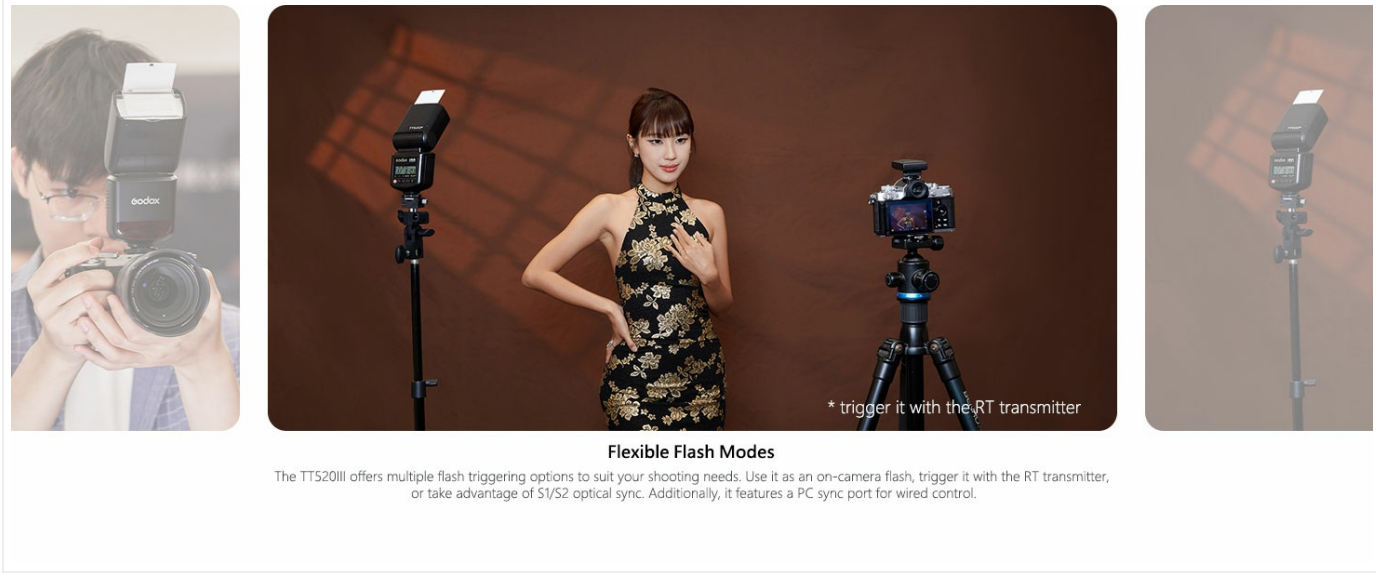


Image 2.1: All components included in the GODOX TT520 III package.

2.2. Key Features

- **Bright & Fast Performance:** Guide Number (GN) 33 at ISO 100, with a recycle time of approximately 1.8 seconds and a flash duration up to 1/31000s.
- **Wireless Control:** Integrated 433MHz wireless system for remote triggering with the included AT-16 transmitter, or optical S1/S2 slave modes for multi-flash setups.
- **Precise Manual Power:** 8 manual power levels (1/128 to 1/1) adjustable in ±1/3-stop increments, displayed on a clear LCD.
- **Universal Compatibility:** Features a single-contact hotshoe, compatible with most Canon, Nikon, Sony, Fuji, Pentax, Olympus, and Panasonic cameras.
- **Flexible Lighting:** Flash head rotates 330° horizontally and 120° vertically for bounce lighting. Includes a built-in reflector and wide-angle diffuser.
- **Expandable System:** Can be used with optional S-R1 round head adapters or Bowens mount modifiers for advanced lighting effects.



Image 2.2: Overview of the TT520 III's main features.

3. Setup

3.1. Battery Installation

The GODOX TT520 III flash requires 4 AA batteries (not included). Ensure batteries are inserted with correct polarity.

1. Open the battery compartment cover on the side of the flash unit.
2. Insert 4 AA batteries according to the polarity indicators (+/-) inside the compartment.
3. Close the battery compartment cover securely.



Image 3.1: Correct battery insertion into the flash unit.

3.2. Attaching to Camera

The TT520 III features a universal hotshoe mount for direct attachment to compatible cameras.

1. Slide the flash unit's hotshoe foot into your camera's hotshoe mount.
2. Tighten the locking ring or lever on the flash unit to secure it firmly to the camera.



Image 3.2: The universal hotshoe mount for camera attachment.

3.3. Setting up the Wireless Trigger (AT-16)

The AT-16 wireless trigger allows for remote firing of the flash unit.

1. Insert a 12V 23A battery into the AT-16 transmitter (battery not included).
2. Mount the AT-16 transmitter onto your camera's hotshoe.
3. Ensure the flash unit is set to wireless mode (indicated by a wireless icon on the LCD).
4. Set the channel switches on both the flash unit and the AT-16 transmitter to the same channel (1-16).
5. The flash unit will now fire wirelessly when the camera shutter is pressed.

4. Operating Instructions

4.1. Power On/Off

Slide the ON/OFF switch to power the flash unit on or off.

4.2. Manual Power Control

The TT520 III operates in manual mode, allowing precise control over flash output.

1. Press the 'MODE' button until 'M' (Manual) is displayed on the LCD.
2. Use the '+' and '-' buttons to adjust the flash power from 1/128 to 1/1 (full power). Adjustments can be made in ±1/3-stop increments.



Image 4.1: Adjusting manual power levels on the flash LCD.

4.3. S1/S2 Optical Slave Modes

These modes allow the TT520 III to be triggered by another flash unit.

- **S1 Mode:** The flash will fire in response to the first flash it detects. This is suitable for manual flash units.
- **S2 Mode:** The flash will ignore the pre-flash from a TTL flash and fire on the main flash. This is suitable for TTL flash units.

To activate S1 or S2 mode, press the 'MODE' button until 'S1' or 'S2' is displayed on the LCD.



Image 4.2: Example of using S1/S2 optical sync for multi-flash setups.

4.4. Adjustable Flash Head

The flash head can be rotated and tilted to direct light for bounce flash or creative lighting.

- **Horizontal Rotation:** The head can rotate up to 330° (165° left, 165° right).
- **Vertical Tilt:** The head can tilt from -7° to 90°.

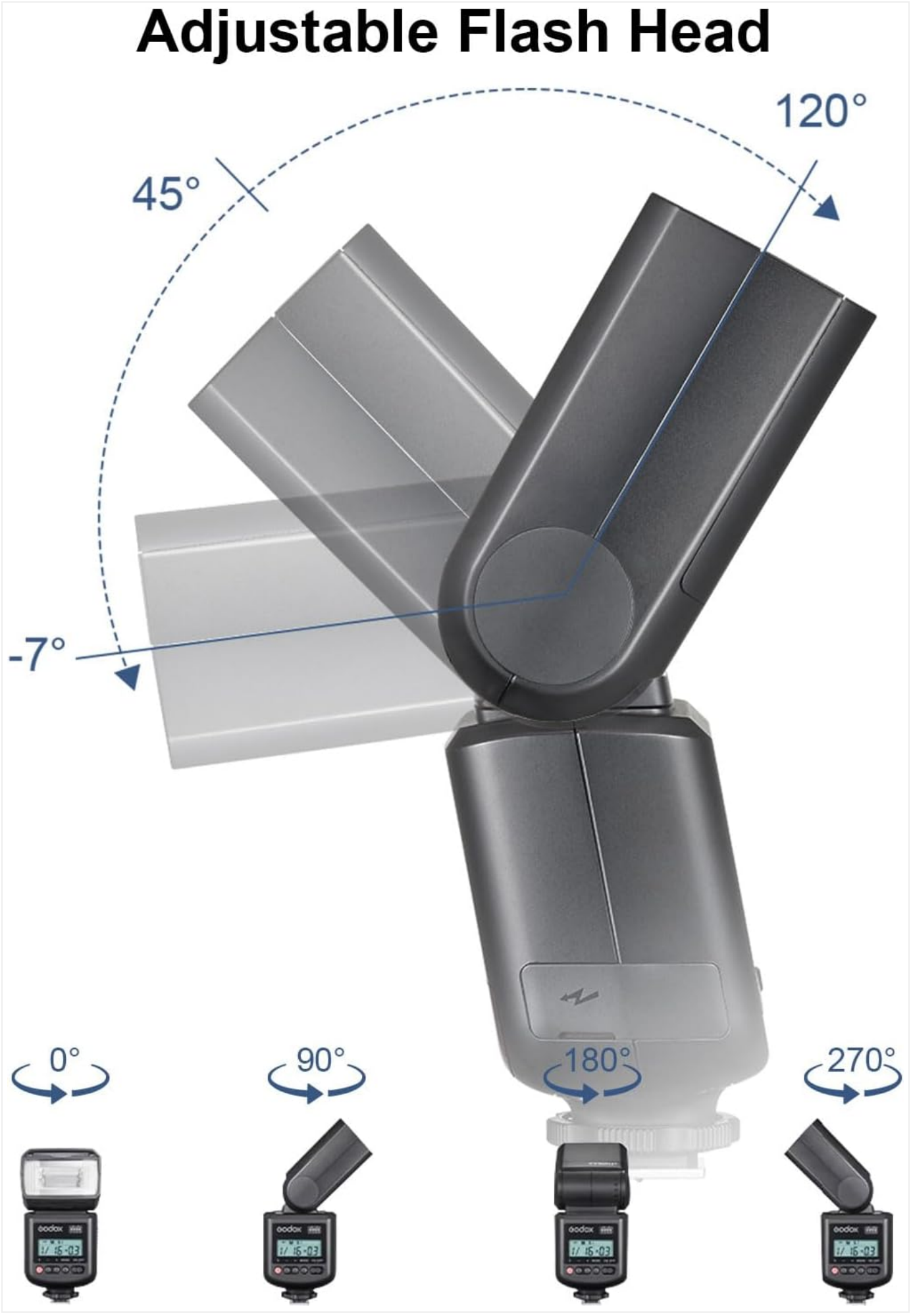


Image 4.3: Flash head adjustment angles for bounce and directional lighting.

4.5. Integrated Reflector and Diffuser

The TT520 III includes a pull-out reflector card and a wide-angle diffuser panel.

- **Reflector Card:** Pull out the small white card from the flash head to create a catchlight in subjects' eyes or to add a subtle fill light.
- **Wide-Angle Diffuser:** Pull out the translucent panel to soften and spread the flash light, ideal for wide-angle lenses or to reduce harsh shadows.



Image 4.4: The built-in wide-angle diffuser in use.

5. Maintenance

Proper care ensures the longevity and optimal performance of your GODOX TT520 III flash.

- **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. Avoid harsh chemicals or abrasive materials.
- **Battery Care:** Remove batteries when the flash is not in use for extended periods to prevent leakage. Use high-quality AA batteries for best performance.
- **Storage:** Store the flash in a cool, dry place, away from direct sunlight and extreme temperatures. Use the provided storage bag for protection against dust and scratches.
- **Avoid Impact:** Handle the flash unit with care to prevent damage from drops or impacts.

6. Troubleshooting

If you encounter issues with your GODOX TT520 III, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Flash does not fire.	Low or dead batteries. Incorrect battery insertion. Flash not powered on. Hotshoe connection loose. Wireless channel mismatch.	Replace batteries. Check polarity. Turn on flash. Secure hotshoe connection. Ensure flash and trigger are on the same channel.
Flash recycle time is slow.	Low battery power. High power setting.	Replace batteries with fresh ones. Reduce flash power setting.
Flash output is inconsistent.	Low battery power. Overheating protection activated.	Replace batteries. Allow flash to cool down if used continuously at high power.

Problem	Possible Cause	Solution
Wireless trigger not working.	Trigger battery dead. Channel mismatch. Distance too far. Obstructions.	Replace trigger battery. Verify matching channels. Reduce distance. Remove obstructions.

7. Specifications

Feature	Specification
Model	TT520 III
Guide Number (GN)	33 (ISO 100, meters)
Flash Mode	Manual (M), S1, S2
Vertical Rotation Angle	0 to 90 degrees
Horizontal Rotation Angle	0 to 330 degrees
Power Levels	8 levels (1/128 - 1/1) with ±1/3-stop increments
Recycle Time	Approx. 1.8 seconds (with fresh AA batteries)
Flash Duration	1/300s - 1/31000s
Color Temperature	5600K ± 200K
Wireless Frequency	433MHz
Wireless Channels	16
Power Source	4 x AA batteries (Ni-MH or Alkaline)
Dimensions	28.34 x 29.13 x 71.65 inches (Product Dimensions)
Weight	15.2 ounces (without batteries)

8. Warranty and Support

GODOX products are manufactured with high-quality standards. For warranty information and customer support, please refer to the documentation provided with your purchase or visit the official GODOX website. Protection plans may be available for purchase separately to extend coverage.
For technical assistance or service inquiries, please contact GODOX customer support.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

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

Details

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

Submit question