GODOX TT520 II

GODOX TT520 II Universal On-Camera Flash Speedlite and AT-16 Wireless Trigger Transmitter Instruction Manual

Model: TT520 II

1. Introduction

This manual provides detailed instructions for the safe and effective use of your GODOX TT520 II Universal On-Camera Flash Speedlite and AT-16 Wireless Trigger Transmitter. Please read this manual thoroughly before operation to ensure optimal performance and to prevent damage to the product.



Figure 1.1: GODOX TT520 II Flash Speedlite with AT-16 Wireless Trigger Transmitter and color filters.

2. What's in the Box

Verify that all items are present in your package:

- 1 x GODOX TT520 II Flash Speedlite (batteries not included)
- 1 x AT-16 Wireless Trigger Transmitter
- 1 x Filter Kit (color gels)
- 1 x Mini Stand for Flash

3. Key Features

- **High Guide Number:** GN33 (ISO 100) for effective flash range.
- **Fast Recycle Time:** Approximately 0.1-5 seconds.

- **Flash Speed:** 1/300s-1/20000s for clear and vivid images.
- **Multiple Flash Modes:** Manual (M), Slave 1 (S1), and Slave 2 (S2) for versatile lighting control.
- **Variable Flash Output:** 8 levels from 1/128 to full power.
- **Built-in Wireless Receiver:** Integrated 433MHz wireless receiver for off-camera flash operation.
- **Adjustable Flash Head:** Rotates horizontally 0-270 degrees and vertically 0-90 degrees.
- **Universal Hot Shoe:** Compatible with most DSLR cameras from brands like Canon, Nikon, Pentax, Olympus, Fujifilm, and Panasonic.
- **Integrated Diffuser and Reflector:** Pull-out wide-angle diffuser and reflector plate.
- **External Power Port:** Sync socket and terminals for an external power pack.

4. Product Overview

Familiarize yourself with the components and controls of the GODOX TT520 II Flash Speedlite and AT-16 Wireless Trigger Transmitter.



Figure 4.1: Labeled diagram of the GODOX TT520 II Flash Speedlite and AT-16 Wireless Trigger Transmitter.

Flash Speedlite Components:

- **Flash Head:** Contains the flash tube, reflector plate, and wide-angle diffuser.
- **Wireless Trigger Sensors:** Detects signals from the AT-16 transmitter.
- **Synchronized Jack:** For connecting to cameras via sync cable or external power.
- **Quick Charge Socket:** For external power pack connection.
- **Control Panel:** Includes Channel Code display, Wireless Indicator, Charging Indicator, Power Selection Button, Mode Selection Button, Power Switch, and Test Button.
- **Hot Shoe:** Universal mount for camera attachment.
- **Battery Cover:** For inserting AA batteries.

AT-16 Wireless Trigger Transmitter Components:

- **Transmitter Light:** Indicates trigger status.
- **Synchronous Interface:** For camera connection.
- **Rotating Lock:** Secures the trigger to the camera hot shoe.
- **Channel Switch:** For selecting the wireless channel.

5. Setup

5.1 Battery Installation

The GODOX TT520 II Flash Speedlite requires four (4) AA batteries, and the AT-16 Wireless Trigger Transmitter requires two (2) AAA batteries.

1. Open the battery compartment cover on the back of the flash unit and the bottom of the trigger unit.
2. Insert the batteries according to the polarity indicators (+/-) inside the compartment.
3. Close the battery compartment cover securely.



Figure 5.1: Installing four AA batteries into the flash unit.

5.2 Mounting the Flash Speedlite

To attach the flash to your camera:

1. Slide the flash's hot shoe mount into your camera's hot shoe slot.
2. Tighten the locking ring or screw on the flash unit to secure it firmly to the camera.



Figure 5.2: The universal hot shoe mount for camera attachment.

5.3 Mounting the Wireless Trigger Transmitter

To attach the trigger to your camera:

1. Slide the trigger's hot shoe mount into your camera's hot shoe slot.
2. Tighten the rotating lock on the trigger unit to secure it firmly.

6. Operating Instructions

6.1 Power On/Off

To power on the flash or trigger, slide the power switch to the "ON" position. To power off, slide it to "OFF".

6.2 Mode Selection

Press the "MODE" button on the flash unit to cycle through the available modes:

- **M (Manual Mode):** The flash fires at a power level set by the user.
- **S1 (Slave 1 Mode):** The flash fires in response to the first flash from a master flash. This mode is suitable for manual flash or TTL flash systems.
- **S2 (Slave 2 Mode):** The flash fires in response to the second flash from a master flash. This mode ignores the pre-flash of a TTL system, making it suitable for master flashes with pre-flash functions.

6.3 Power Output Adjustment (Manual Mode)

In Manual (M) mode, use the "+" and "-" buttons to adjust the flash output from 1/128 to 1/1 (full power). The output level is indicated on the control panel.



Figure 6.1: Examples of flash output at various power settings.

6.4 Wireless Triggering with AT-16 Transmitter

The AT-16 Wireless Trigger Transmitter allows for off-camera flash operation.

1. Ensure both the flash and the trigger are powered on.
2. Set the channel switch on the AT-16 transmitter to match the channel code displayed on the flash unit.
3. Mount the AT-16 transmitter onto your camera's hot shoe.
4. When the camera's shutter is pressed, the transmitter will send a signal, causing the flash to fire wirelessly.



Figure 6.2: Off-camera flash setup using the AT-16 wireless trigger.

6.5 Flash Head Adjustment

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

- **Vertical Rotation:** The flash head can be tilted upwards from 0 to 90 degrees.
- **Horizontal Rotation:** The flash head can be rotated horizontally from 0 to 270 degrees.



Figure 6.3: Flash head rotation capabilities.

6.6 Using the Built-in Diffuser and Reflector

The TT520 II includes a pull-out wide-angle diffuser and a reflector plate to modify the light output.

- **Wide-Angle Diffuser:** Pull out the diffuser panel from the flash head to soften and spread the light, ideal for wide-angle lenses.
- **Reflector Plate:** Pull out the white reflector card to create a catchlight in subjects' eyes or to provide a subtle fill light when bouncing the flash.

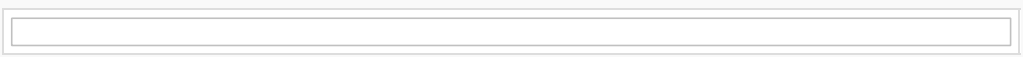


Figure 6.4: The pull-out wide-angle diffuser and reflector plate.

7. 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 cloth. Avoid harsh chemicals or abrasive materials.

- **Storage:** When not in use for extended periods, remove the batteries from both the flash and the trigger to prevent leakage. Store the unit in a cool, dry place away from direct sunlight and moisture.
- **Handling:** Handle the flash and trigger with care. Avoid dropping or subjecting them to strong impacts.

8. Troubleshooting

- **Flash not firing:**
  - Check if batteries are correctly inserted and charged.
  - Ensure the flash and trigger are powered on.
  - Verify the flash is securely mounted on the camera hot shoe or receiving a wireless signal.
  - If using wirelessly, ensure the channel on the flash and trigger match.
  - Press the "TEST" button on the flash to confirm it can fire manually.
- **Low flash output:**
  - Check the flash power setting in Manual (M) mode and increase if necessary.
  - Ensure batteries are fully charged.
- **Flash overheating:**
  - The flash has overheating protection. If it becomes too hot, it may temporarily stop firing. Allow it to cool down before resuming use.
  - Avoid rapid, consecutive full-power flashes.

9. Specifications

Feature	Specification
Guide Number	GN33 (ISO 100)
Flash Modes	M, S1, S2
Flash Output Control	8 levels (1/128 to 1/1)
Recycle Time	Approx. 0.1-5 seconds
Flash Sync Speed	1/300s - 1/20000s
Wireless Frequency	433MHz
Vertical Rotation Angle	0-90 degrees
Horizontal Rotation Angle	0-270 degrees
Power Source (Flash)	4 x AA batteries (not included)
Power Source (Trigger)	2 x AAA batteries (not included)
Item Weight	1.01 pounds (approx. 458g)

Feature	Specification
Package Dimensions	8.9 x 3.39 x 2.91 inches

10. Compatibility

The GODOX TT520 II Flash Speedlite features a single-point universal hot shoe design, ensuring wide compatibility with most DSLR/MSLR cameras on the market, including but not limited to:

- Canon DSLR Cameras
- Nikon DSLR Cameras
- Pentax DSLR Cameras
- Olympus DSLR Cameras
- Fujifilm DSLR Cameras
- Panasonic DSLR Cameras



Figure 10.1: Universal hot shoe compatibility with various camera brands.

11. 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.

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