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GODOX HS2025041804

GODOX TT520 III Camera Flash Universal Speedlite

Instruction Manual

Model: HS2025041804

Introduction Package Contents Features Setup Operation Maintenance Troubleshooting Specifications Warranty & Support

1. Introduction

Thank you for purchasing the GODOX TT520 III Camera Flash. This universal speedlite is designed to provide versatile and reliable lighting for a wide range of photography needs. Featuring a built-in 433MHz wireless receiver and an included RT wireless trigger, it offers flexible off-camera flash capabilities. Its manual power control, adjustable head, and broad compatibility make it an essential tool for photographers seeking precise lighting control.
Please read this manual carefully before using the product to ensure safe operation and optimal performance. Keep this manual for future reference.

2. Package Contents

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact your retailer.

- Camera Flash (TT520 III) x1
- RT Transmitter x1
- Mini Stand x1
- Storage Bag x1



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

3. Key Features

3.1. Easy & Precise Power Control

The TT520 III operates in Manual (M) mode, offering 8 power settings adjustable from 1/128 to full power in ±1/3-stop increments. This allows for fine-tuned control over light output. The clear display screen facilitates easy viewing and adjustment of settings.



Image: Visual representation of the 8 power levels and their effect on illumination.

3.2. 433MHz Wireless Triggering

Equipped with an integrated 433MHz receiver, the TT520 III pairs with the standard RT transmitter for 16-channel wireless triggering, ensuring reliable flash synchronization. It also supports S1/S2 optical sync modes and features a PC sync port for wired control.



Image: The TT520 III flash and RT transmitter in use for wireless triggering.

3.3. Bright Output & Quick Recycle

The flash boasts a Guide Number of 33 (ISO 100, in meters). It delivers up to 400 full-power flashes on NiMH batteries with a recycle time of approximately 1.8 seconds. Flash duration ranges from 1/510 to 1/31000 seconds for crisp images.



Image: Demonstration of the flash's bright output and quick recycle capabilities.

3.4. Universal Hotshoe

Featuring a single contact hotshoe design, the TT520 III is widely compatible with most Canon, Sony, Nikon, Fujifilm, Panasonic, and Olympus DSLR cameras with a hot shoe. *Note: Not compatible with Sony ZV1-F, A9III, A99, A77, A350, Zv1 Mark 2; Canon 3000D, 1500D, 200DII, R7, R6II, R8, R10, R50; FUJI X-A3, X100F, X100T; or other cameras without a hot shoe mount.*



Image: The universal hot shoe design and its broad compatibility.

3.5. Adjustable Flash Head

The flash head can be rotated horizontally from 0° to 330° and vertically from –7° to 120°. This flexibility allows for direct flash, bounce flash, and other creative lighting techniques.



Image: The adjustable flash head demonstrating its range of motion.

3.6. Versatile Accessories Compatibility

When paired with optional S-R1/S-R2 round head adapters, the TT520 III works seamlessly with Godox AK-R1 magnetic accessories. The optional S/S2 flash bracket allows attachment of Bowens-mount modifiers like softboxes, reflectors, and snoots.

3.7. Power Source

The flash operates on 4 AA NiMH batteries (not included). An internal battery compartment allows for quick and easy battery changes.



Image: Inserting batteries into the TT520 III flash unit.

3.8. External Power Port

Equipped with a quick-charge power port, the TT520 III can be connected to an optional PB960 power box (sold separately) to shorten recycle times and increase flash counts.



Image: The TT520 III connected to an optional external power pack.

4. Setup

4.1. Battery Installation

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

4.2. Mounting the Flash

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

4.3. RT Wireless Trigger Setup

1. Insert the button cell battery into the RT transmitter.
2. Set the channel switches (DIP switches) on both the RT transmitter and the TT520 III flash to match. There are 4 switches, allowing for 16 different channel combinations. Ensure they are identical for proper communication.
3. Mount the RT transmitter onto your camera's hot shoe.

5. Operating Instructions

5.1. Power On/Off

Press the **ON/OFF** button on the flash unit to power it on or off.

5.2. Adjusting Flash Power (Manual Mode)

1. Ensure the flash is in Manual (M) mode.
2. Use the **+** and **-** buttons to adjust the flash output power. The power can be set from 1/128 to 1/1 (full power) in 1/3-stop increments.

5.3. Wireless Triggering

With the RT transmitter mounted on your camera and both the flash and transmitter set to the same channel, the flash will fire wirelessly when your camera's shutter button is pressed.

5.4. Optical Slave Modes (S1/S2)

The TT520 III supports S1 and S2 optical slave modes, allowing it to be triggered by another flash. These modes are useful for multi-flash setups without additional wireless triggers.

- **S1 Mode:** The flash will fire in sync with 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.

5.5. PC Sync Port

For wired synchronization, connect a PC sync cable (not included) from your camera's PC sync terminal to the flash's PC sync port.

5.6. Adjusting Flash Head Angle

Gently rotate the flash head to adjust its horizontal (0° to 330°) and vertical (–7° to 120°) angles for direct or bounce lighting.

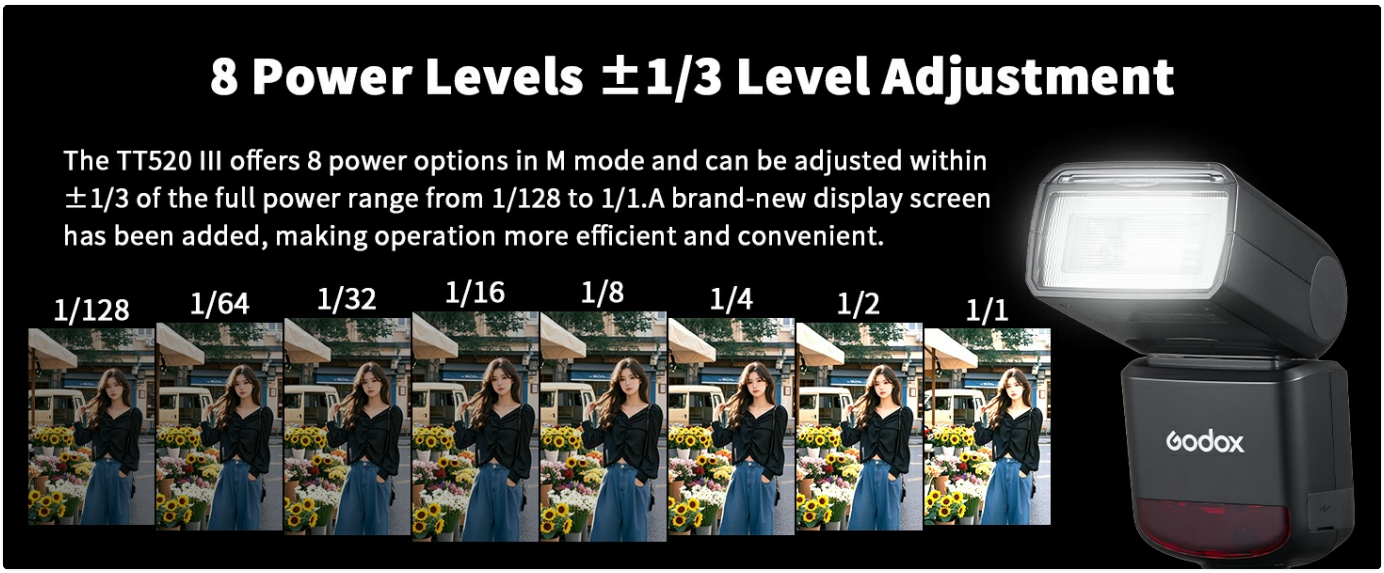


Image: Various triggering options for the TT520 III flash.

6. Maintenance

- Keep the device dry. Do not handle with wet hands or immerse in water.
- Clean the flash unit and hot shoe contacts regularly with a soft, dry cloth. Avoid using harsh chemicals or abrasive cleaners.
- Remove batteries if the flash will not be used for an extended period to prevent leakage.
- Store the device in a cool, dry place, away from direct sunlight and extreme temperatures.
- Avoid strong impacts or dropping the device.

7. Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Flash does not fire.	Low or dead batteries; Incorrect battery insertion; Flash not powered on; Incorrect hot shoe connection; Transmitter/flash channel mismatch; Camera settings.	Replace batteries; Check battery polarity; Power on flash; Ensure flash is securely mounted and contacts are clean; Match transmitter and flash channels; Check camera flash settings.
Flash output is too weak/strong.	Incorrect power setting; Distance to subject.	Adjust flash power using +/- buttons; Move closer or further from subject.
Wireless triggering not working.	Channel mismatch; Transmitter battery low; Obstruction between transmitter and flash.	Verify DIP switch settings on both units; Replace transmitter battery; Ensure clear line of sight or reduce distance.
Slow recycle time.	Low battery power; High power setting.	Replace batteries; Use lower power settings; Consider external power pack (PB960).

8. Specifications

Feature	Detail
Model	TT520 III (HS2025041804)
Guide Number (GN)	33 (ISO 100, in meters)
Flash Mode	Manual (M)
Power Output	8 levels (1/128 to 1/1) in ±1/3-stop increments
Wireless Triggering	433MHz RT Wireless System (16 channels), S1/S2 Optical Slave
Flash Duration	1/510 to 1/31000 seconds
Recycle Time	Approx. 1.8 seconds (with NiMH batteries)
Full Power Flashes	Approx. 400 (with NiMH batteries)
Power Source	4 x AA NiMH batteries (not included)
Vertical Rotation Angle	–7° to 120°
Horizontal Rotation Angle	0° to 330°
Dimensions (Package)	8.66 x 3.54 x 2.76 inches
Item Weight	1 pound
Compatible Mountings	Universal Hotshoe (Canon, Sony, Nikon, Fuji, Pentax, Olympus, Panasonic DSLR Cameras with Hot Shoe)
Flash Sync Speed	1/250s

9. Warranty and Support

GODOX products are designed and manufactured to the highest quality standards. For information regarding warranty coverage, terms, and conditions, please refer to the warranty card included with your product or visit the official GODOX website. Please retain your proof of purchase for any warranty claims.

For technical support, troubleshooting assistance, or service inquiries, please contact your authorized GODOX dealer or the GODOX customer service department. Contact information can typically be found on the GODOX official website or on the product packaging.

Online Resources: For the latest product information, firmware updates, and additional resources, please visit the official GODOX website: www.godox.com

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