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GODOX TT3500

Godox TT350 Mini Thinklite TTL Flash User Manual

Model: TT3500 for Olympus and Panasonic Cameras

1. INTRODUCTION

The Godox TT350 Mini Thinklite TTL Flash is a compact and versatile speedlite designed for Olympus and Panasonic cameras. It features a built-in 2.4 GHz X radio system for wireless triggering, a guide number of GN36, and supports high-speed sync up to 1/8000s. This manual provides detailed instructions for setting up, operating, and maintaining your flash unit.

2. SAFETY INFORMATION

- Do not disassemble this product. If repairs become necessary, the product should be sent to an authorized maintenance center.
- Keep this product dry. Do not handle with wet hands or immerse in water.
- Keep out of reach of children.
- Do not use the flash unit in the presence of flammable gases, chemicals, or other similar materials.
- Do not leave or store the flash unit in temperatures exceeding 50°C (122°F).
- Do not point the flash directly into human eyes at close range.

3. PRODUCT OVERVIEW

The Godox TT350 is a compact and portable flash unit, significantly smaller than standard speedlites, making it ideal for mirrorless camera systems.

One Hand Control Cabinet and Portable

It's a small portable flash which hardly increases the weight of your camera.

Weight: **200mm**

Length: **140mm** Width: **62mm**



Image: The Godox TT350 Mini Thinklite TTL Flash (left) shown next to a larger flash unit (right), demonstrating its compact and pocketable design. The TT350 measures approximately 5.5 x 1.5 x 2.4 inches and weighs 7 ounces.

3.1. Main Components

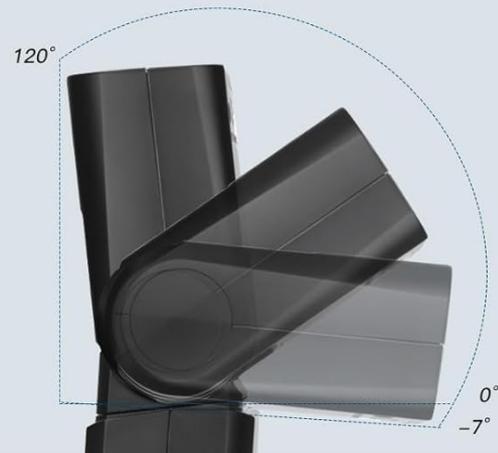
LED Display

LED display dot-matrix liquid crystal display, intuitive display operation, buttons directly adjust the



Adjustable angle

Horizontal 360° Vertical 7-90° rotation, photography fill light more simple



Hot Shoe Contacts

Hot shoe contacts are made of corrosion-resistant and more conductive metal.



Wide Angle Diffuser

By pulling out the diffuser plate, the light can be spread out to cover a wider range of light distribution.



Image: A detailed view of the Godox TT350 flash unit, illustrating its key features including the intuitive LCD display, control buttons, hot shoe contacts, and the built-in wide-angle diffuser.

- **LCD Display:** Provides clear and intuitive operation with a dot-matrix liquid crystal display.
- **Control Buttons:** Four function buttons allow changing various settings. A select dial is used to choose the amount of settings.
- **Adjustable Flash Head:** The flash head can be tilted from -7 to 90° vertically and rotated a total of 270° horizontally for flexible bounce flash and light direction.
- **Hot Shoe Contacts:** Made of corrosion-resistant and more conductive metal for reliable camera connection.
- **Wide Angle Diffuser:** A pull-out diffuser plate spreads the light to cover a wider range of distribution.
- **Auto Zoom Lamp Head:** Built-in zoom motor for 24-105mm auto/manual zoom, controlling light intensity and coverage.

Auto Zoom Lamp Head

Built-in zoom motor, 24~105mm zoom, can control the flash emits light to illuminate the range and light intensity.



Image: An exploded view diagram of the flash head, showing the Fresnel lens, flash tube, and zoom motor, along with a graphic representation of the 24-105mm auto/manual zoom coverage.

4. SETUP

4.1. Battery Installation

The TT350 flash unit operates on two AA batteries (sold separately). Ensure correct polarity when inserting batteries.

4.2. Mounting on Camera

Slide the flash unit onto your camera's hot shoe mount and secure it using the locking mechanism.

4.3. Initial Power-On

Press and hold the power button to turn the flash on. The LCD display will illuminate, showing the current settings.

Your browser does not support the video tag.

Video: This video demonstrates how to set up the Godox TT350 Mini Flash, including battery installation, mounting on a camera, and basic operation with an X Trigger. It covers various settings and functionalities of the flash unit.

5. OPERATING MODES

The Godox TT350 offers various operating modes to suit different photographic needs.

5.1. TTL Autoflash Mode

TTL (Through-The-Lens) mode automatically adjusts flash output for optimal exposure. This mode supports features like Flash Exposure Compensation (FEC).

TTL Exposure Compensation



Image: A visual representation of TTL Exposure Compensation, showing how adjusting the flash output from -3 to +3 affects the brightness of a subject in a portrait.

5.2. Manual Flash Mode (M)

In Manual mode, you set the flash output power from 1/1 (full power) to 1/128 in 1/3 EV steps. This provides precise control over lighting.

5.3. Multi Flash Mode

Multi flash (Stroboscopic flash) fires a series of rapid flashes within a single exposure, useful for capturing multiple movements of a subject in one frame.

5.4. High-Speed Sync (HSS)

HSS allows the flash to synchronize with shutter speeds up to 1/8000s, enabling you to use wider apertures in bright conditions or freeze fast motion.

High Speed Sync (up to 1/8000 seconds)

With built-in 2.4GHz wireless remote system Support transmitting and receiving. Provided Multiple Functions, include TTL Autoflash, Manual Flash, Multi Flash, S1, S2, Second Curtain Sync, FEC.etc.

GN36 (m ISO 100 @ 105mm)

24mm to 105mm (Flash Coverage)



Image: A visual demonstration of High-Speed Sync (HSS) capabilities, including freezing motion at 1/8000s, and examples of front/rear curtain sync and multi-flash photography.

5.5. Wireless 2.4G X System

The integrated 2.4 GHz X radio system allows the TT350 to function as a master or slave unit. It supports 16 channels and three groups (A, B, C) with a range of up to 328 feet (100 meters). This enables versatile multi-flash setups with other Godox X system products.

Wireless 2.4G Transmission

Use with Godox X1 T-F/X2T-F/XPro-F/XProII-F flash trigger to achieve wireless control, offer better user experience.



Image: A diagram illustrating the wireless 2.4G X Transmission system, showing the TT350 as a master unit controlling multiple slave units (other Godox flashes and triggers like XPro-O/X1T-O/V850II/TT600).

5.6. Optical Slave Modes (S1/S2)

The TT350 also features optical receiver modes (S1/S2) for working with other standard flashes that do not have a built-in 2.4G system.

6. MAINTENANCE

- Clean the flash unit regularly with a soft, dry cloth.
- Avoid using solvents or harsh chemicals.
- Remove batteries when the unit is not in use for extended periods to prevent leakage.
- Store the flash unit in a cool, dry place, away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Flash does not fire.	Low battery, incorrect mode, flash not securely mounted.	Replace batteries, check flash mode (TTL/M), ensure secure hot shoe connection.
Flash output is too dark/bright.	Incorrect FEC setting, manual power too low/high.	Adjust FEC in TTL mode or manual power in M mode.
Wireless triggering fails.	Incorrect channel/group, distance too far, interference.	Verify channel and group settings on both flash and trigger. Reduce distance or change channel.
Flash head does not zoom.	Manual zoom selected, zoom motor issue.	Ensure auto zoom is enabled or manually adjust zoom. Contact support if motor is faulty.

8. SPECIFICATIONS

Main Tech Specs

For full tech specs, see Product Description below.

Exposure control system

TTL / Manual flash

Battery

Two AA batteries
(sold separately)

Guide Number (at Full Power)

≈36(ISO 100, in meters)

Full Power Flashes

≈210
(with 2500mA Ni-MH batteries)

Recycle Time (at Full Power)

≈2.2s

Flash Power Steps

22 : (1/1~1/128)

Flash duration(t0.1)

1/350-1/20000S

Flash duration(t0.1)

Vertical: -7-90°
Horizontal: 0-270°

Wireless flash function

Master, Slave, Off
(Godox 2.4G X wireless system)

Sync mode

HSS(up to 1/8000s)
Front curtain sync
Rear curtain sync

Size

5.5 * 2.4 * 1.5"

Weight(without Batteries)

≈200g

Image: A visual representation of the main technical specifications for the Godox TT350 flash, including exposure control, battery, guide number, recycle time, flash duration, wireless function, sync mode, size, and weight.

- **Exposure Control System:** TTL Autoflash, Manual Flash
- **Guide Number (at Full Power):** GN36 (ISO 100, in meters)
- **Flash Coverage:** 24 to 105mm (Auto/Manual Zoom)
- **Flash Duration (t0.1):** 1/350 to 1/20000 seconds
- **Recycle Time (at Full Power):** Approx. 0.1-2.2 seconds
- **Full Power Flashes:** Approx. 210 (with 2500mAh Ni-MH batteries)

- **Flash Power Steps:** 22 steps (1/1 to 1/128)
- **Wireless Flash Function:** Master, Slave, Off (Godox 2.4G X wireless system)
- **Sync Mode:** High-Speed Sync (up to 1/8000s), Front Curtain Sync, Rear Curtain Sync
- **Power Source:** 2x AA batteries (sold separately)
- **Dimensions:** 5.5 x 1.5 x 2.4 inches (140 x 38 x 62mm)
- **Weight (without Batteries):** Approx. 12 ounces (200g)

9. WHAT'S IN THE BOX

What's in the Box

TT350 Camera Flash *1 Mini Stand *1 Storage Bag *1 Manual *1



White Diffuser Protection Cover *1



Image: The Godox TT350 Camera Flash, a mini stand, a storage bag, and a white diffuser protection cover are displayed as the contents of the product package.

- 1x Godox TT350 Flash Unit
- 1x Protection Bag
- 1x H-type Bracket (Mini Stand)
- 1x Filter
- 1x White Diffuser

10. WARRANTY AND SUPPORT

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

