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Wipkviey T6

Wipkviey T6 Drone with Camera User Manual

Model: T6 / TY-T6

1. Introduction and Overview

The Wipkviey T6 Drone is a lightweight (180g) quadcopter designed for beginners and users aged 14 and above. It features a 1080p HD camera with 90-degree adjustability for First Person View (FPV) and real-time transmission. The drone offers stable flight characteristics and various control options via a mobile app or remote control, including headless mode, three speed settings, 360-degree flips, automatic altitude hold, and one-touch take-off/return.
This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Wipkviey T6 Drone.

2. Safety Guidelines

- **Age Requirement:** This drone is suitable for users aged 14 years and older.
- **Flight Environment:** Always operate the drone in an open, windless environment, especially for your first flights. Avoid flying near people, animals, buildings, or power lines.
- **Line of Sight:** Maintain visual line of sight with the drone at all times to prevent loss of control.
- **Pre-Flight Calibration:** Always calibrate the drone horizontally before flying and ensure it takes off from a horizontal surface. Failure to do so may affect flight stability.
- **Battery Safety:** Do not overcharge or puncture batteries. Use only the provided charging cable.
- **Propeller Safety:** Keep fingers, hair, and loose clothing away from rotating propellers.
- **Water Exposure:** Avoid exposing the drone to water or moisture.

3. Package Contents

Verify that all items are present in your package:

- Wipkviey T6 Drone with Integrated Camera
- Remote Control
- Drone Batteries (x2, 1200mAh Lithium-ion)
- Propellers (spare set)
- Propeller Guards (x4)

- USB Charging Cable
- Screwdriver
- User Manual (this document)
- AA Batteries (x2, for remote control)



Image: Contents of the Wipkviey T6 Drone package, showing the drone, remote control, two drone batteries, spare propellers, propeller guards, a USB charging cable, and a screwdriver.

4. Component Identification

4.1 Drone Components

- **Camera:** 1080p HD, 90-degree adjustable.
- **Propellers:** Four main propellers for lift and thrust.
- **Motors:** Four motors driving the propellers.
- **LED Lights:** Green-blue LED lights on the arms for visibility, especially during night flights.
- **Battery Compartment:** Located on the drone's body for the removable drone battery.



Image: Close-up of the Wipkviey T6 Drone, highlighting its 1080p HD 90-degree adjustable camera and FPV real-time transmission capabilities. The image also shows gesture controls for photo and video capture.

4.2 Remote Control Components

- **Control Sticks:** Left stick for throttle/yaw, right stick for pitch/roll.
- **One-Key Take-off/Landing Button:** Initiates automatic take-off or landing.

- **Headless Mode Button:** Activates/deactivates headless flight mode.
- **Speed Switch Button:** Toggles between three flight speed modes.
- **360-Degree Flip Button:** Initiates a 360-degree aerial flip.
- **Phone Holder:** Adjustable holder for mounting a smartphone for FPV viewing and app control.

5. Setup

5.1 Charging Drone Batteries

1. Connect the drone battery to the USB charging cable.
2. Plug the USB cable into a 5V/1A USB power adapter (not included).
3. The indicator light on the charging cable will show charging status. Charging typically takes about 60 minutes per battery.
4. A fully charged battery provides 10-14 minutes of flight time. Two batteries are included for a total of 20-28 minutes.

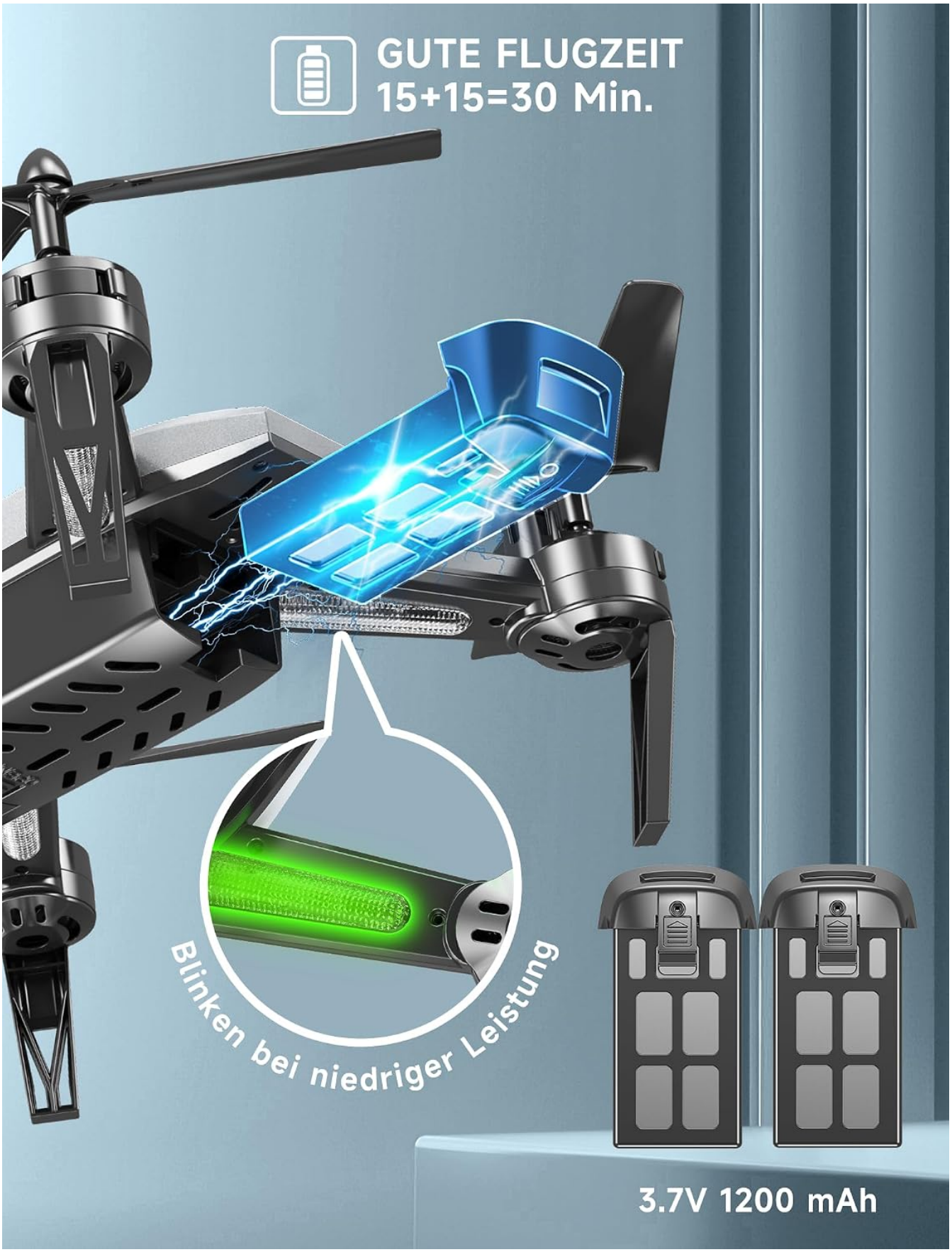

Image: Illustration of the Wipkviey T6 Drone's modular batteries, indicating a total flight time of 20-28 minutes with two batteries and a blinking indicator for low power.

5.2 Installing Drone Batteries

1. Ensure the drone is powered off.
2. Insert a fully charged drone battery into the battery compartment on the drone's rear until it clicks into place.

5.3 Installing Propeller Guards

1. Identify the four propeller guards.
2. Attach each guard to the corresponding arm of the drone, ensuring a secure fit.

5.4 Installing Remote Control Batteries

1. Open the battery compartment on the back of the remote control.
2. Insert two AA batteries (included), observing the correct polarity (+/-).
3. Close the battery compartment.

5.5 App Installation (Optional for FPV and advanced features)

1. Scan the QR code provided in the quick start guide or search for the Wipkviey drone app in your smartphone's app store.
2. Download and install the app.
3. Connect your smartphone to the drone's Wi-Fi network (usually named 'Wipkviey-T6-XXXX').

6. Operating Instructions

6.1 Pre-Flight Checklist

- Ensure drone batteries are fully charged and securely installed.
- Ensure remote control batteries are installed.
- Check that propellers and propeller guards are securely attached and undamaged.
- Choose an open, windless area for flight.
- Power on the drone, then the remote control.

6.2 Pairing and Calibration

1. Place the drone on a flat, horizontal surface.
2. Power on the drone. The drone's indicator lights will flash.
3. Power on the remote control.
4. Push the left control stick (throttle) all the way up, then all the way down. The drone lights will stop flashing and become solid, indicating successful pairing.
5. To calibrate the gyroscope, push both control sticks down and to the right simultaneously. The drone lights will flash rapidly and then become solid, indicating successful calibration.

6.3 Take-off and Landing

- **One-Key Take-off:** Press the One-Key Take-off/Landing button on the remote. The drone will automatically ascend to a stable hovering height.
- **Manual Take-off:** Gently push the left control stick (throttle) upwards.
- **One-Key Landing:** Press the One-Key Take-off/Landing button again. The drone will automatically descend and land.
- **Manual Landing:** Gently pull the left control stick (throttle) downwards until the drone lands.



Image: Illustration of the One Key Start/Land function, showing the drone taking off and landing with a single button press on the remote control.

6.4 Flight Controls and Special Features

- **Altitude Hold:** The drone maintains its current altitude automatically, allowing for easier control of horizontal movement.
- **Headless Mode:** Press the Headless Mode button. In this mode, the drone's orientation is relative to the pilot, regardless of the drone's front direction. This simplifies control for beginners.
- **Speed Modes:** Press the Speed Switch button to cycle through three speed settings (low, medium, high) to match your skill level and environment.
- **360-Degree Flips:** While flying, press the 360-Degree Flip button, then push the right control stick in the desired direction (forward, backward, left, or right) to perform an aerial flip.



Image: The Altitude Hold feature of the Wipkviey T6 Drone, showing it maintaining a stable height above a landing pad.



Image: The Headless Mode feature, illustrating how the drone's orientation becomes relative to the pilot, simplifying directional control.



Image: A sequence showing the Wipkviey T6 Drone executing a 3D flip maneuver in the air.

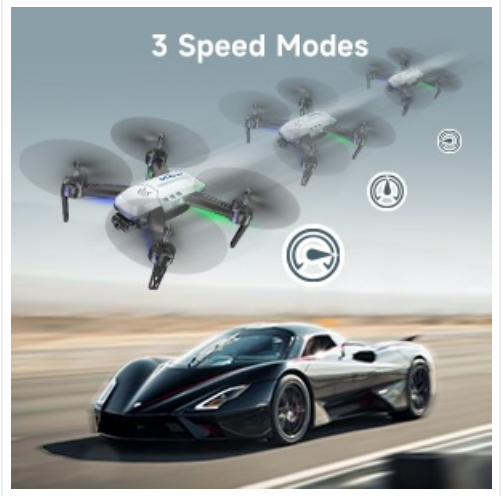

Image: The Wipkviey T6 Drone demonstrating its three speed modes, with icons indicating different speed settings.

6.5 Camera Operation (FPV, Photo, Video)

- **FPV (First Person View):** Once the drone is connected to your smartphone via Wi-Fi and the app is open, you will see a real-time video feed from the drone's camera on your phone screen.
- **Taking Photos:** Use the dedicated button on the remote control or the app interface to capture still images.
- **Recording Videos:** Use the dedicated button on the remote control or the app interface to start and stop video recording.
- **Adjusting Camera Angle:** The camera can be manually adjusted up to 90 degrees before flight to achieve the desired viewing angle.
- **Storage:** Photos and videos are saved directly to your connected smartphone. *Note: The Wipkviey T6 Drone does not support SD card storage.*



Image: The Wipkviey T6 Drone being controlled through its dedicated mobile application, showing the app interface on a smartphone.

7. Maintenance

7.1 Cleaning

- Gently wipe the drone's body with a soft, dry cloth.
- Remove any dust or debris from the motors and propellers using a soft brush or compressed air.
- Do not use water or chemical cleaners.

7.2 Propeller Replacement

- If a propeller is damaged, use the provided screwdriver to carefully remove the screw holding it in place.
- Replace with a new propeller from the spare set, ensuring it is the correct type (A or B) for the corresponding motor.
- Secure the new propeller with the screw.

7.3 Battery Care and Storage

- Store drone batteries in a cool, dry place, away from direct sunlight and heat.
- For long-term storage, charge batteries to approximately 50% capacity.
- Do not store fully charged or completely depleted batteries for extended periods.
- Remove AA batteries from the remote control if not used for a long time.

8. Troubleshooting

Problem	Possible Cause	Solution
Drone does not respond to remote.	Not paired; Remote batteries low; Drone battery low.	Re-pair drone and remote; Replace remote batteries; Charge drone battery.
Drone drifts during flight.	Not calibrated; Uneven take-off surface; Wind interference.	Perform gyroscope calibration; Take off from a flat surface; Fly in windless conditions.

Problem	Possible Cause	Solution
Camera feed is unstable or disconnected.	Weak Wi-Fi signal; App not connected to drone Wi-Fi.	Ensure drone is within Wi-Fi range; Reconnect phone to drone's Wi-Fi network.
Drone does not take off.	Drone battery low; Propellers blocked; Not paired/calibrated.	Charge drone battery; Check for obstructions; Pair and calibrate drone.
Short flight time.	Battery not fully charged; Old battery; Aggressive flying.	Ensure full charge; Consider replacing old batteries; Fly more conservatively.

9. Specifications

Feature	Detail
Model Name	T6 / TY-T6
Brand	Wipkviey
Dimensions (L x W x H)	20 x 20 x 6 cm (excluding propeller guards)
Weight	180 g
Recommended Age	14+ years
Camera Resolution	1080p HD (Video), 2 MP (Photo)
Camera Angle	90-degree adjustable
FPV Transmission	2.4G Real-time Wi-Fi
Drone Battery	3.7V 1200mAh Lithium-ion (x2 included)
Flight Time	10-14 minutes per battery (20-28 minutes total)
Charging Time	Approx. 60 minutes per battery
Remote Control Batteries	2 x AA batteries (included)
Control Features	Headless Mode, 3 Speed Modes, 360-degree Flips, Altitude Hold, One-Key Take-off/Landing
Storage Medium	Smartphone (SD card not supported for storage)

10. Warranty and Support

For warranty information and customer support, please refer to the contact details provided with your purchase or visit the official Wipkviey website. Keep your proof of purchase for any warranty claims.

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