Techwonderz F169

Techwonderz F169 Drone with Camera User Manual

1080P HD Mini Drone with Obstacle Avoidance

1. Important Safety Guidelines

Always operate the drone in open, clear areas, away from people, animals, and obstacles. Ensure you understand all local regulations regarding drone operation.

- **Age Restriction:** This product is recommended for users aged 14 years and older.
- **Pre-Flight Check:** Always inspect the drone, remote control, and batteries for any damage before each flight.
- **Battery Safety:** Use only approved charging cables and batteries. Do not overcharge or puncture batteries.
- **Weather Conditions:** Avoid flying in strong winds, rain, snow, or other adverse weather conditions.
- **Line of Sight:** Maintain visual line of sight with the drone at all times during flight.
- **Propeller Safety:** Keep hands, face, and loose clothing away from rotating propellers.

2. Package Contents

Verify that all items are present in your package:

- Techwonderz F169 Drone × 1
- 1080P High-Definition Camera (integrated)
- Spare Propellers × 16
- Drone Smart Battery 1800mAh × 2
- Portable Handbag × 1
- Box x 1
- Remote Controller × 1
- Charging Cable × 1
- Specific Screws of Propeller Blades × 4

- Screwdriver of Propeller Blades × 1
- Manual x 2
- Landing Pad x 1



Figure 2.1: Complete package contents of the Techwonderz F169 Drone.

3. Product Overview

3.1 Key Features

- **1080P HD Dual Cameras:** Capture high-definition photos and videos. The front camera can be rotated 90° for flexible shooting angles.
- **Optical Flow Positioning:** Ensures precise positioning and stable hovering, ideal for beginners and photographers.
- **360° Obstacle Avoidance:** Intelligent radar system helps the drone deftly avoid obstacles, enhancing safety and ease of flight.
- **Long Flight Time:** Upgraded batteries provide up to 50 minutes of flight time.
- **User-Friendly Controls:** Features like One Key Take-Off/Landing, Emergency Stop, Headless Mode, and Altitude

Hold make it easy for beginners.

- **Advanced Flight Modes:** Perform 360° flips and rolls, utilize Waypoint functions for custom flight paths, and engage Gesture Photo & Video for hands-free capture.
- **Follow Me Mode:** Automatically detects and tracks moving subjects, keeping them in frame.



Figure 3.1: Overview of the Techwonderz F169 Drone's main features.



Figure 3.2: Detailed view of the 1080P HD camera and its 90-degree adjustability.



Figure 3.3: The 120-degree wide-angle 1080P WiFi camera provides a broad field of view.

4. Setup

4.1 Drone Preparation

1. **Unfold the Drone Arms:** Gently unfold the front arms first, then the back arms until they click into place.

Video 4.1: Demonstration of unfolding the drone arms for flight preparation.

2. **Install Battery:** Insert a fully charged drone smart battery into the battery compartment until it is securely in place.

4.2 Remote Control Setup

1. **Install Batteries:** Open the battery compartment on the back of the remote control and insert 3 AAA batteries (not included).

2. **Extend Phone Holder:** Flip up the phone holder on the remote control and extend it to securely hold your smartphone.



Figure 4.1: The remote control with its phone holder extended, ready for use.

4.3 App Installation and Connection

1. **Download App:** Scan the QR code in the included manual or search for the designated app in your smartphone's app store.
2. **Connect to Wi-Fi:** Turn on the drone. On your smartphone, go to Wi-Fi settings and connect to the drone's Wi-Fi network (usually named 'DRONE-XXXXXX').
3. **Launch App:** Open the drone app. The live feed from the drone's camera should appear, indicating a successful connection.

Video 4.2: Official instruction and operation video for the Techwonderz F169 Drone.

5. Operating Instructions

5.1 Basic Flight

- **One Key Take-Off/Landing:** Press the dedicated button on the remote control or in the app to automatically take off or land.
- **Altitude Hold Mode:** The drone will maintain a stable altitude, making it easier to control and capture steady footage.
- **Headless Mode:** In this mode, the drone's orientation is relative to the pilot, simplifying control regardless of the drone's front direction.



Figure 5.1: Visual guide to beginner-friendly flight modes.

5.2 Advanced Features

- **360° Obstacle Avoidance:** The drone uses sensors to detect and automatically navigate around obstacles, enhancing safety.



Figure 5.2: The drone's obstacle avoidance system in action, navigating around a tree.

- **Optical Flow Positioning:** This feature provides precise indoor and low-altitude positioning for stable flight.
- **Gesture Photography:** Make a 'V' or 'palm' gesture in front of the camera to trigger photo or video recording.
- **Waypoint Flight:** Draw a desired flight path on the app map, and the drone will automatically follow it.



Figure 5.3: Illustrates the Waypoint Flight feature, allowing the drone to follow a pre-set path.

- **360° Flips and Rolls:** Execute impressive aerial acrobatics with a single button press.



Figure 5.4: The drone executing a 360-degree roll, showcasing its acrobatic capabilities.

- **Speed Adjustment:** Switch between fast and slow gears to suit your skill level and flying environment.



Figure 5.5: The drone's speed adjustment feature, allowing for varied flight dynamics.

6. Maintenance

- **Propeller Replacement:** If propellers are damaged, use the provided screwdriver and spare propellers to replace them. Ensure correct orientation (A and B propellers).
- **Battery Care:** Store batteries in a cool, dry place. Do not leave them fully charged or fully discharged for extended periods.
- **Cleaning:** Use a soft, dry cloth to clean the drone and remote control. Avoid using liquids or harsh chemicals.

7. Troubleshooting

- **Drone Not Responding:** Ensure both drone and remote control are powered on and properly paired. Check battery levels.
- **Unstable Flight:** Perform a calibration as per the manual. Check for damaged propellers and replace if necessary.
- **No Camera Feed:** Verify Wi-Fi connection between the drone and your smartphone. Ensure the app is open and

has necessary permissions.

- **Short Flight Time:** Ensure batteries are fully charged. Flight time can vary based on flight style and environmental factors.

8. Specifications

Attribute	Value
Brand	Techwonderz
Model Name	F169
Item Weight	141 Grams (approx. 5 ounces)
Product Dimensions	2.95"L x 2.95"W x 5.31"H
Video Capture Resolution	1080p
Connectivity Technology	Wi-Fi
Battery Capacity	1800 Milliamp Hours
Flight Time	Up to 50 minutes (with upgraded battery)
Skill Level	Beginner
Color	Black
Material	Plastic

9. Warranty and Support

For warranty information, technical support, or any inquiries regarding your Techwonderz F169 Drone, please refer to the contact details provided in the separate warranty card included in your package or visit the official Techwonderz website.

We are committed to providing excellent customer service and support to ensure your satisfaction with our product.

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