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Wipkviey B12

Wipkviey B12 GPS Drone Instruction Manual

Model: B12 | Brand: Wipkviey

Introduction

Welcome to the Wipkviey B12 GPS Drone instruction manual. This guide provides essential information for safe operation, setup, flight, and maintenance of your drone. Please read thoroughly before first use to ensure a safe and enjoyable flying experience.

Safety Guidelines

- Always operate the drone in open areas, away from people, animals, and obstacles.
- Maintain a safe distance from power lines, buildings, and water bodies.
- Do not fly in strong winds (above Class 4 wind resistance, approximately 21 km/h) or adverse weather conditions.
- Ensure the drone battery and remote control are fully charged before each flight.
- Follow local regulations regarding drone operation and registration. The B12 drone weighs less than 250g, which may exempt it from certain registration requirements in some regions.
- Always use GPS mode for outdoor flights to ensure stable control and enable features like Return to Home. Optical flow mode is primarily for indoor or very calm outdoor conditions.

Package Contents

Verify that all items are present in your package:

- Wipkviey B12 Drone
- Remote Control
- 2 x Drone Batteries
- Carrying Case
- Propellers (spare set included)
- Charger
- Camera (integrated)
- Screwdriver



This image displays the complete contents of the Wipkviey B12 drone package, including the drone, remote control, two batteries, a carrying case, spare propellers, a charger, and a screwdriver.

Component Overview

Drone Components

Familiarize yourself with the drone's parts and their functions.



A detailed view of the Wipkviey B12 drone, highlighting its foldable design and the integrated 4K camera at the front.

Drone Dimensions



This image illustrates the dimensions of the Wipkviey B12 drone, showing its compact size when folded (14.3 cm x 8 cm x 5 cm) and its expanded size when unfolded (30.5 cm x 25.4 cm x 5 cm).

Remote Control Components



The remote control for the Wipkviey B12 drone, featuring dual joysticks, an LCD screen, and various control buttons for flight and camera functions, including FPV transmission up to 500m.

Setup Guide

1. Battery Installation and Charging

The drone comes with two batteries. Ensure they are fully charged before each use for optimal flight time.

1. Connect the charger to the battery and a suitable power source.
2. The charging indicator will show the charging status. Charge time may vary.
3. Once fully charged, disconnect the battery from the charger.
4. Carefully insert the charged battery into the drone's battery compartment until it clicks securely into place.



An image showing the drone battery being inserted into the Wipkviey B12 drone, with a spare battery and charger visible. Each battery provides up to 25 minutes of flight time.

2. Propeller Installation

Attach the propellers according to the markings (A and B) on the propellers and motor arms. Incorrect installation can affect flight stability.

1. Match 'A' marked propellers to 'A' marked motor arms and 'B' marked propellers to 'B' marked motor arms.
2. Use the provided screwdriver to securely fasten the propellers to the motor shafts. Do not overtighten.

3. Remote Control Setup

1. Install batteries into the remote control (if not pre-installed). Refer to the remote control's battery compartment for correct polarity.
2. Extend the phone holder on the remote control and securely place your smartphone.

4. App Installation and Connection

Download the official Wipkviey drone app from your smartphone's app store (iOS or Android).

1. Power on the drone and then the remote control.
2. On your smartphone, go to Wi-Fi settings and connect to the drone's Wi-Fi network (typically named "Wipkviey-B12-XXXX").
3. Open the Wipkviey app to establish a connection and view the live FPV feed.

Operating Your Wipkviey B12 Drone

1. Pre-Flight Checklist

- Ensure drone and remote batteries are fully charged.
- Check propellers for any damage and ensure they are securely attached.
- Verify sufficient open space for flight, clear of obstacles and people.
- Confirm GPS signal acquisition (for outdoor flights) before takeoff.

2. Calibration

GPS Calibration (Compass Calibration)

For stable outdoor flight and accurate Return to Home functionality, GPS calibration is essential. Follow the on-screen instructions in the app or the remote control's indicator lights for compass calibration before each outdoor flight.

Gyro Calibration

If the drone exhibits unstable flight or drifts significantly, perform a gyro calibration. This can usually be done via a specific button combination on the remote control or through the drone's app settings.

3. Takeoff and Landing

One-Key Takeoff/Landing

Press the one-key takeoff/landing button on the remote control or within the app. The drone will automatically ascend to a safe altitude or descend and land gently.

Manual Takeoff

To manually take off, push both joysticks down and outwards simultaneously to unlock the motors. Then, slowly push the left joystick up to ascend.

4. Flight Modes

GPS Mode

Recommended for outdoor flight. GPS mode provides stable hovering, precise positioning, and enables intelligent flight features. Ensure a strong GPS signal before activating.

Optical Flow Mode

Suitable for indoor flight or areas with weak GPS signal. This mode uses downward-facing sensors for basic stability. Note: Optical flow mode is less stable in outdoor windy conditions.

Headless Mode

In headless mode, the drone's front direction is independent of its actual orientation. This simplifies control for beginners, as the drone will always move relative to the pilot's position.

5. Camera Operation

The Wipkviey B12 drone is equipped with a 4K sensor camera, capable of capturing high-quality images and videos.

- **Photo Resolution:** 4096x3072P (4K)

- **Video Resolution:** 1920x1080P (2K) at 25 frames per second (FPS)
- **Wide-Angle Lens:** 120° field of view
- **Adjustable Axis:** Camera angle can be adjusted from 0° to 90° via the remote control.



A diagram illustrating the Wipkviey B12 drone's 4K UHD Sony camera lens, highlighting its 120° wide-angle and 90° adjustable axis for versatile photo and video capture.



This image compares the clear and sharp image quality of the Wipkviey B12's 4K camera with a blurred image from another camera, demonstrating the superior detail captured by the 4K sensor.

6. Intelligent Flight Features

Leverage the drone's intelligent flight modes for enhanced creativity and ease of use.



This image visually explains the drone's intelligent GPS functions, including automatic Return to Home, Follow Me mode where the drone tracks the user, and Point of Interest mode for orbiting a specific location.

Follow Me

In Follow Me mode, the drone will automatically track the remote controller or the connected smartphone, recording your movements from a set distance and altitude.

Waypoint Flight (Draw the Line)

Draw a custom flight path on the app's map interface, and the drone will autonomously fly along the specified route, allowing you to focus on capturing footage.

Point of Interest

Select a central point on the map, and the drone will orbit around it at a set radius and altitude, providing dynamic circular shots.

Smart Return to Home (RTH)

The drone will automatically return to its recorded takeoff point if the signal is lost, the battery level becomes critically low, or the Return to Home button is manually pressed on the remote or in the app.

Maintenance and Care

Cleaning

Use a soft, dry cloth to gently clean the drone's body, camera lens, and remote control. Avoid using water, solvents, or harsh chemicals, as these can damage electronic components.

Storage

When not in use, store the drone in its dedicated carrying case in a cool, dry place, away from direct sunlight and extreme temperatures. For extended storage, remove the batteries from both the drone and the remote control.

Propeller Replacement

If any propellers become damaged (e.g., bent, chipped, or cracked), replace them immediately with new ones from the spare set. Ensure correct 'A' and 'B' propeller matching to the corresponding motor arms for stable flight.

Troubleshooting Common Issues

Problem	Solution
Drone drifts during flight	Perform Gyro Calibration. Ensure flight is conducted in GPS mode outdoors. Avoid strong winds.
No GPS signal	Move to an open outdoor area, away from tall buildings or interference. Wait for GPS satellites to connect (indicator light will change).
App not connecting to drone	Ensure drone and remote are powered on. Reconnect to the drone's Wi-Fi network in your phone settings. Restart the app.
Short flight time	Ensure batteries are fully charged before each flight. Battery performance may degrade over time with repeated use.
Unstable video footage	Ensure propellers are undamaged and securely attached. Avoid flying in strong winds or performing aggressive maneuvers.

Technical Specifications

- **Model:** B12
- **Weight:** Less than 250g
- **Camera:** 4K Sensor, 120° wide-angle lens, 0-90° adjustable axis
- **Photo Resolution:** 4096x3072P
- **Video Resolution:** 1920x1080P (2K) @ 25FPS
- **Flight Time:** Up to 25 minutes per battery (50 minutes total with 2 batteries)
- **Transmission Range (RC/WiFi):** Up to 500m (5GHz FPV)
- **Motor Type:** 1503 Brushless Motor
- **Wind Resistance:** Class 4
- **Control Type:** Remote Control, Wi-Fi App
- **GPS:** Yes

- **Optical Flow Positioning:** Yes
- **Age Range:** Adult
- **Color:** Black
- **Included Components:** Drone, Remote, 2 Batteries, Carrying Case, Propellers, Charger, Camera, Screwdriver

Warranty and Customer Support

For warranty information, technical support, or any inquiries regarding your Wipkviey B12 drone, please refer to the contact details provided on the Wipkviey official website or the platform where you purchased the product. Please retain your proof of purchase for any warranty claims.

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