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ATTOP W80/A8

ATTOP W80/A8 Drone System User Manual

Comprehensive Guide for Operation and Maintenance

1. Introduction

Welcome to the user manual for your ATTOP W80/A8 Drone System. This guide provides essential information for the safe and effective operation, maintenance, and troubleshooting of your drone. Please read this manual thoroughly before operating the drone to ensure optimal performance and to prevent damage.
The ATTOP W80 is a high-performance 4K GPS drone featuring a 2-axis gimbal, while the ATTOP A8 is a 1080P drone, offering a versatile aerial photography and flight experience. Both models are designed for ease of use and durability.

2. Product Features

- **4K UHD EIS Camera with 2-Axis Gimbal (W80):** Provides superior camera stability and high-resolution image capture with a 90° adjustable lens.
- **GPS Return to Home (RTH):** Automatically returns the drone to its takeoff point in case of low battery, signal loss, or user command.
- **5G FPV Transmission:** Offers stable and long-range real-time video transmission up to 2625 ft.
- **Intelligent Flight Modes:** Includes Point-of-Interest, Waypoint Flight, and Follow Me for dynamic and automated flight paths.
- **Brushless Motors:** Ensures powerful, quiet, and long-lasting operation.
- **Extended Flight Time:** Up to 60 minutes of flight time (30 minutes per battery, two batteries included).
- **Foldable & Portable Design:** Compact and easy to transport with included carrying case.
- **1080P Camera (A8):** Offers clear video and photo capture for general use.

3. Setup Guide

3.1 Unboxing and Inspection

1. Carefully open the packaging and remove all components.
2. Verify that all items listed in the packing list are present.

3. Inspect the drone, remote controller, and accessories for any signs of damage. Do not operate if damaged.

3.2 Battery Charging

The drone batteries must be fully charged before first use. Use only the provided charging cable and adapter.

- Connect the battery to the charging cable.
- Plug the charging cable into a USB power source (e.g., 5V/2A adapter).
- Charging indicator lights will show charging status. Disconnect once fully charged.

3.3 Propeller Installation

Ensure propellers are installed correctly on the corresponding motor arms. Each propeller is marked (A or B) and must match the motor arm's marking.

1. Unfold the drone arms.
2. Attach the propellers firmly to the motor shafts, ensuring correct orientation.

3.4 Remote Controller Setup

- Install batteries into the remote controller (typically AA batteries, not specified in input, so keep it general).
- Power on the remote controller.
- Pair the remote controller with the drone by following the instructions in the app or quick start guide (specific pairing steps not provided, so generalize).

3.5 App Installation and Connection

Download the official ATTOP drone application from your device's app store. This app is essential for accessing advanced features and real-time video feed.

- Search for "ATTOP Drone" or refer to the QR code in the quick start guide.
- Install the app on your smartphone.
- Connect your smartphone to the drone's Wi-Fi network (5G FPV transmission).
- Launch the app and follow on-screen prompts to connect to the drone.

4. Operating Instructions

4.1 Pre-Flight Checklist

- Ensure drone and remote controller batteries are fully charged.
- Check propellers for damage and ensure they are securely attached.
- Select an open, clear area for flight, away from obstacles, people, and restricted airspace.
- Verify strong GPS signal before takeoff, especially for GPS-dependent features like Return to Home and Follow Me.
- Confirm successful connection between drone, remote controller, and app.

4.2 Takeoff and Landing

- **One-Key Takeoff:** Press the designated button on the remote controller or in the app for automatic takeoff.
- **Manual Takeoff:** Push both joysticks down and out to arm the motors, then slowly push the left joystick up to ascend.
- **One-Key Landing:** Press the designated button for automatic landing.

- **Manual Landing:** Slowly pull the left joystick down to descend, then hold it down for a few seconds after landing to disarm motors.

4.3 Flight Controls

Familiarize yourself with the remote controller's joystick functions:

- **Left Joystick:** Up/Down (Throttle), Left/Right (Yaw/Rotation).
- **Right Joystick:** Up/Down (Pitch/Forward-Backward), Left/Right (Roll/Left-Right Sideways).

4.4 Intelligent Flight Modes

Access these modes via the ATTOP drone app:

- **Follow Me:** The drone will automatically follow the remote controller or smartphone. Ensure strong GPS signal.
- **Waypoint Flight:** Draw a path on the map in the app, and the drone will fly along the specified route.
- **Point of Interest:** Select a central point on the map, and the drone will circle around it at a set radius and altitude.
- **GPS Return to Home (RTH):** Initiated manually or automatically when battery is low or signal is lost. Ensure clear landing area.

4.5 Camera Operation

- **Photo Capture:** Press the photo button on the remote controller or in the app.
- **Video Recording:** Press the video button to start/stop recording.
- **Gimbal Adjustment (W80):** Use the dedicated button or app slider to adjust the camera's vertical angle (90° adjustable lens).
- **Zoom Function:** Adjust image scale via the app for stunning effects.
- Ensure an SD card is inserted for storing high-resolution photos and videos.

5. Maintenance

5.1 Cleaning

- Wipe the drone body with a soft, dry cloth after each flight.
- Remove any dust or debris from motors and propellers.
- Keep the camera lens clean using a lens cleaning cloth.

5.2 Propeller Replacement

- Inspect propellers for cracks, bends, or chips before each flight.
- Replace damaged propellers immediately. Ensure correct A/B propeller type is installed on the corresponding motor.

5.3 Battery Care and Storage

- Store batteries in a cool, dry place, away from direct sunlight and extreme temperatures.
- Do not overcharge or over-discharge batteries.
- If storing for extended periods, charge batteries to approximately 50-60% capacity.

5.4 Storage

When not in use, fold the drone arms and store the drone and all accessories in the provided carrying case to protect them from dust and damage.

6. Troubleshooting

Problem	Possible Cause	Solution
Drone does not power on.	Battery not charged or not inserted correctly.	Ensure battery is fully charged and properly inserted.
Remote controller does not connect.	Remote controller batteries low; pairing failed.	Replace remote controller batteries; re-attempt pairing process.
No FPV video feed.	Phone not connected to drone Wi-Fi; app not launched.	Connect phone to drone's 5G Wi-Fi; open the ATTOP app. Ensure sufficient signal range.
Drone drifts during flight.	Calibration needed; strong wind interference.	Perform gyroscope and compass calibration as per app instructions. Avoid flying in strong winds.
GPS features not working.	Weak GPS signal; flying indoors or near interference.	Fly in an open outdoor area with clear sky. Wait for sufficient GPS satellites to lock.
Short flight time.	Battery not fully charged; old battery; aggressive flying.	Ensure full charge. Consider battery replacement if old. Fly more conservatively.

7. Specifications

Feature	Detail
Brand	ATTOP
Model	W80 (4K GPS), A8 (1080P)
Video Capture Resolution	4K (W80), 1080P (A8)
Video Output Resolution	1920x1080 Pixels (for FPV, actual recording is 4K/1080P)
FPV Transmission Frequency	5GHz
FPV Transmission Range	Up to 2625 ft (800 meters)
Flight Time	Up to 30 minutes per battery (60 minutes total with 2 batteries)
Motor Type	Brushless
Gimbal	2-Axis Motorized (W80)
GPS	Yes
Media Type	SD Card (for recording)
Age Range	Adult

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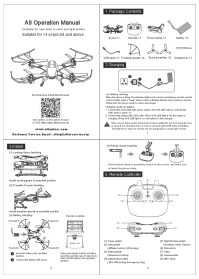
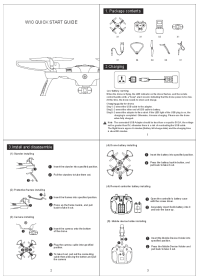
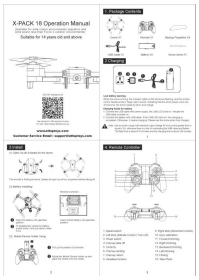
Related Documents - W80/A8

	[ATTOP F16 Drone User Manual: Features, Operation, and Troubleshooting] Comprehensive user manual for the ATTOP F16 drone. Learn about specifications, remote control functions, installation, flight modes like GPS and Indoor, calibration, safety features, troubleshooting, and Wi-Fi app connectivity for an optimal flying experience.
	[Attop F16 Drone Quick Guide] This quick start guide provides essential information for the Attop F16 GPS drone. Learn how to download the G07 Drone app, pair your device, calibrate the gyroscope and compass, take off, land, and perform an emergency stop. Includes details on Wi-Fi connection, GPS and Indoor modes, and warranty information.
	[Attop A8 Drone Operation Manual - Setup, Flight, and Safety Guide] Official operation manual for the Attop A8 drone. Learn how to set up, charge, fly, and maintain your Attop A8 quadcopter with detailed instructions, safety tips, and troubleshooting advice.
	[Attop W80 Drone: User Manual and Operating Guide] Comprehensive user manual for the Attop W80 drone, covering setup, operation, safety guidelines, troubleshooting, and specifications. Learn how to fly your drone safely and effectively.
	[ATTOP W10 Drone: Quick Start Guide and Operation Manual] Comprehensive guide to setting up, operating, and maintaining the ATTOP W10 drone. Learn about package contents, charging, flight controls, safety precautions, and app features for this 1080P FPV drone.
	[ATTOP X-PACK 18 Drone Operation Manual: Setup, Flying, and Safety Guide] Comprehensive operation manual for the ATTOP X-PACK 18 drone, covering package contents, charging, installation, remote controller functions, flight operations, safety precautions, and troubleshooting. Learn how to fly your drone safely and effectively.