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ATOYX AT-146

ATOYX AT-146 Foldable Drone with 720 HD Camera User Manual

Model: AT-146

1. Safety Information

Before operating your ATOYX AT-146 drone, please read and understand all safety guidelines to ensure safe and responsible use. Failure to follow these instructions may result in injury or damage to the drone.

- **Flight Environment:** Fly in open areas, away from people, animals, buildings, and power lines. Avoid flying in strong winds or adverse weather conditions.
- **Battery Safety:** Use only the original battery and charger. Do not overcharge or puncture the battery. Discontinue use if the battery shows signs of swelling or damage.
- **Propeller Safety:** Keep fingers, hair, and loose clothing away from rotating propellers. Ensure propellers are securely attached before each flight.
- **Age Recommendation:** This drone is recommended for users aged 14 and above. Adult supervision is advised for younger users.
- **Line of Sight:** Always maintain visual line of sight with your drone during flight.

2. Package Contents

Verify that all items are present in your package:

- ATOYX AT-146 Foldable Drone with 720 HD Camera
- Remote Controller
- Lithium-ion Battery (1 included)
- USB Charging Cable
- Spare Propellers
- Propeller Guards
- User Manual



Figure 2.1: The ATOYX AT-146 drone and its main components, including the remote controller and battery.

3. Setup Guide

3.1 Charging the Drone Battery

1. Remove the Lithium-ion battery from the drone.
2. Connect the battery to the USB charging cable.
3. Plug the USB cable into a 5V/1A USB power adapter (not included).
4. The indicator light on the USB cable will show charging status (refer to cable instructions for specific light behavior). Charging typically takes 60-90 minutes.
5. Once fully charged, disconnect the battery and reinsert it into the drone.

3.2 Installing Propellers and Guards

1. Identify the 'A' and 'B' marked propellers and match them to the corresponding motor arms on the drone.

2. Gently push the propellers onto the motor shafts until they are secure.
3. Attach the propeller guards by snapping them into place around each motor arm.

3.3 Installing Remote Controller Batteries

1. Open the battery compartment on the back of the remote controller.
2. Insert 3 AAA batteries (not included), ensuring correct polarity.
3. Close the battery compartment.

3.4 Unfolding the Drone

The ATOYX AT-146 drone features a foldable design for portability. Gently unfold each of the four rotor arms until they click into place. Ensure all arms are fully extended before flight.



Figure 3.1: The drone's compact, folded state, demonstrating its portability for easy transport.

3.5 App Installation and WiFi Connection

To utilize the drone's WiFi FPV and smartphone control features, download the dedicated ATOYX drone app (available for Android and iOS).

1. Scan the QR code in the quick start guide or search for the app name in your device's app store.
2. Install the app on your smartphone.
3. Power on the drone.
4. On your smartphone, go to WiFi settings and connect to the drone's WiFi network (usually named 'ATOYX-XXXXXX').
5. Open the ATOYX app to establish the connection and view the live FPV feed.



Figure 3.2: Illustration of the drone's WiFi FPV capability, enabling real-time video streaming to a smartphone and direct sharing to social media platforms.

4. Operating Instructions

4.1 Power On/Off and Pairing

1. Place the drone on a flat, level surface.
2. Press and hold the power button on the drone until the LED lights illuminate.
3. Turn on the remote controller.
4. Push the left joystick up and then down. The drone's indicator lights will stop flashing and remain solid, indicating successful pairing.

4.2 Calibration

After pairing, perform a gyroscope calibration for stable flight:

- With the drone on a flat surface, push both joysticks down and to the right simultaneously.
- The drone's lights will flash rapidly and then become solid, indicating successful calibration.

4.3 One-Key Takeoff and Landing

- Press the One-Key Takeoff/Landing button on the remote controller. The drone will automatically ascend to a stable altitude.
- Press the same button again to initiate an automatic landing.

4.4 Flight Controls and Special Features

- **Altitude Hold:** The drone maintains its current altitude automatically, allowing for easier control of horizontal movement.
- **Headless Mode:** In headless mode, the drone's orientation is relative to the pilot, eliminating the need to adjust its position before flight. Press the headless mode button to activate/deactivate.
- **3 Speed Modes:** Cycle through low, medium, and high-speed modes using the speed button on the remote controller to match your flying skill level.
- **Phone Control (Gravity Induction):** When connected via the app, you can control the drone's flight by tilting your smartphone using the gravity induction feature.



Figure 4.1: A user demonstrates controlling the ATOYX AT-146 drone through a smartphone's gravity induction feature, offering an intuitive flight experience.

- **One-Button Return:** Press the one-button return key on the remote controller, and the drone will automatically fly back towards its takeoff point.



Figure 4.2: The ATOYX AT-146 drone executing its one-button return function, automatically flying back to its original takeoff position.

4.5 Camera Operation

The drone is equipped with a 720 HD camera with a 150° wide-angle lens, adjustable by 90 degrees.



Figure 4.3: Close-up view of the ATOYX AT-146 drone's 720 HD camera, designed for capturing clear aerial photos and videos.



Figure 4.4: This image demonstrates the drone's 150-degree wide-angle camera, which can be manually adjusted by 90 degrees to capture various perspectives.

- **Taking Photos:** While flying, press the photo button on the remote controller or within the app to capture a still image.
- **Recording Videos:** Press the video button on the remote controller or within the app to start/stop video recording.
- **Real-time FPV:** The live video feed from the drone's camera is transmitted to your connected smartphone via WiFi, allowing for an immersive first-person view experience.

5. Maintenance

5.1 Cleaning

Wipe the drone and remote controller with a soft, dry cloth. Do not use harsh chemicals or solvents. Avoid exposing the drone to water or moisture.

5.2 Propeller Replacement

If a propeller is damaged, replace it with a spare propeller from the package. Ensure you match the 'A' and 'B' propellers to their correct motor arms.

5.3 Storage

When not in use, store the drone and its components in a cool, dry place. Remove batteries from the remote controller if storing for extended periods. Fold the drone arms for compact storage.

6. Troubleshooting

Problem	Possible Cause	Solution
Drone does not power on.	Battery is not charged or not properly inserted.	Charge the drone battery fully. Ensure the battery is correctly inserted.
Drone does not pair with remote controller.	Incorrect pairing procedure. Remote controller batteries are low.	Repeat the pairing procedure (Section 4.1). Replace remote controller batteries.
Drone flies erratically or drifts.	Gyroscope not calibrated. Damaged propeller.	Perform gyroscope calibration (Section 4.2). Check and replace any damaged propellers.
App connection issues / No FPV feed.	Incorrect WiFi connection. App not updated or compatible.	Ensure your phone is connected to the drone's WiFi network. Restart the app and drone. Check for app updates. *Note: Some users have reported issues with the app's QR code; ensure you have the latest version from the app store.*
Short flight time.	Battery not fully charged. Old or damaged battery.	Ensure battery is fully charged. Consider replacing the battery if it's old or degraded.

7. Specifications

Feature	Detail
Model	AT-146
Brand	ATOYX
Weight	0.38 g
Dimensions (L x W x H)	18.2 x 18.2 x 4.1 cm (unfolded)
Battery	1 Lithium-ion (rechargeable)

Feature	Detail
Camera	720 HD, 150° Wide-Angle Lens, 90° Adjustable
Video Recording Resolution	720p
Effective Still Resolution	720 Pixels
Connectivity	Wi-Fi (for FPV and App Control)
Special Features	Altitude Hold, Headless Mode, 3 Speed Modes, WiFi FPV, LED Indicator, Phone Control, One-Key Takeoff/Landing, One-Button Return
Skill Level	Low (Beginner-friendly)

8. Warranty and Support

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

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