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Ascend Aeronautics ASC-2400

Ascend Aeronautics ASC-2400 720P HD Video Drone and Remote Control User Manual

Model: ASC-2400

Brand: Ascend Aeronautics

1. Introduction

The Ascend Aeronautics ASC-2400 is a 720P HD video drone designed for an engaging flight experience. Engineered with over 25 years of combined experience in drone and RC aircraft development, this model offers stable flight and convenient features for users aged 14 and above.

Key features include:

- Records HD Video Directly to Your Mobile Device
- Ergonomic Folding Frame for Easy Portability
- One Button Auto Start and Auto Land
- High Efficiency Li-Poly Battery for Extended Flight Time
- Built-in 6 Axis Gyro + Altitude Sensors for Stable Flight

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your drone.



Figure 1.1: Ascend Aeronautics ASC-2400 HD Video Drone (Unfolded)

2. Components Overview

Your Ascend Aeronautics ASC-2400 package includes the following components:

- ASC-2400 HD Video Drone
- Remote Control
- Rechargeable Li-Poly Battery (for drone)
- Carrying Case

Note: 4 AAA batteries for the remote control are not included and must be purchased separately.



Figure 2.1: Drone and Remote Control in Packaging

3. Setup

3.1 Unfolding the Drone

The ASC-2400 features a folding frame for compact storage and transport. To unfold the drone:

1. Gently extend each of the four rotor arms outwards until they click into place.
2. Ensure all arms are fully locked before flight.



Figure 3.1: Drone in Folded Configuration



Figure 3.2: Drone in Unfolded Configuration (Top View)

3.2 Battery Installation and Charging

The drone is powered by a high-efficiency Li-Poly battery. Ensure the battery is fully charged before each flight.

1. Insert the fully charged Li-Poly battery into the designated battery compartment on the drone.
2. Connect the battery to the drone's power connector.
3. To charge, remove the battery from the drone and connect it to the provided charger. Follow the charger's instructions for safe charging.

3.3 Remote Control Setup

Install 4 AAA batteries into the remote control. Ensure correct polarity (+/-) when inserting the batteries.

3.4 Mobile Device Connection (for Video Streaming)

To stream live video and capture photos/videos directly to your mobile device, download the official Ascend Aeronautics

app (refer to the product packaging or quick start guide for app name and download instructions). Connect your mobile device to the drone's Wi-Fi network as instructed by the app.

4. Operating Instructions

4.1 Pre-Flight Checklist

- Ensure drone battery is fully charged.
- Ensure remote control has fresh batteries.
- Verify all drone arms are fully unfolded and locked.
- Choose an open, clear area for flight, away from obstacles, people, and animals.
- Avoid flying in windy conditions.

4.2 Taking Off (One Button Auto Start)

Place the drone on a flat, level surface. Press the 'Auto Start' button on the remote control. The drone will automatically lift off and hover at a stable altitude.

4.3 Flight Controls

Use the joysticks on the remote control to maneuver the drone. The 6 Axis Gyro and Altitude Sensors assist in maintaining stable flight.

- **Left Joystick:** Controls altitude (up/down) and rotation (left/right).
- **Right Joystick:** Controls forward/backward and left/right movement.

4.4 Landing (Auto Land)

To land the drone, press the 'Auto Land' button on the remote control. The drone will automatically descend and land gently.

4.5 Video and Photo Capture

The drone is equipped with an onboard 720P HD camera. Use the dedicated buttons on the remote control or the mobile app interface to initiate video recording or capture still images. Captured media will be streamed and saved directly to your connected mobile device.

5. Maintenance

Regular maintenance ensures the longevity and optimal performance of your drone.

- **Cleaning:** Use a soft, dry cloth to clean the drone body and camera lens. Avoid using harsh chemicals.
- **Propeller Inspection:** Regularly check propellers for any damage (cracks, bends). Replace damaged propellers immediately using genuine replacement parts.
- **Battery Care:** Store the Li-Poly battery in a cool, dry place. Do not overcharge or over-discharge the battery. If storing for extended periods, charge the battery to approximately 50% capacity.
- **Storage:** When not in use, fold the drone arms and store it in its carrying case to protect it from dust and damage.

6. Troubleshooting

If you encounter issues with your ASC-2400 drone, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Drone does not power on	Low battery; Battery not connected; Power button not pressed correctly.	Charge drone battery; Ensure battery is securely connected; Press and hold power button.
Remote control not responding	Low remote batteries; Not paired with drone.	Replace AAA batteries; Follow pairing instructions in quick start guide.
Unstable flight or drifting	Drone not calibrated; Windy conditions; Damaged propellers.	Perform gyro calibration (refer to quick start guide); Fly in calm conditions; Inspect and replace damaged propellers.
Video streaming issues	Weak Wi-Fi signal; App not running correctly; Mobile device compatibility.	Ensure strong Wi-Fi connection; Restart app and drone; Check app requirements for mobile device.
Short flight time	Battery not fully charged; Old battery; Aggressive flying.	Fully charge battery; Consider replacing old battery; Fly more conservatively.

7. Specifications

Feature	Detail
Brand	Generic (Ascend Aeronautics)
Model Name	ASC-2400
Age Range (Description)	Adult (Recommended 14+ Years)
Color	Black
Video Capture Resolution	720p
Connectivity Technology	Radio Frequency
Included Components	Battery, Carrying Case, Remote Control
Skill Level	Intermediate
Video Capture Format	MP4
Control Type	Remote Control
Material	Plastic
Battery Cell Composition	Lithium Polymer
Product Dimensions	12.5"L x 9"W x 3"H
Item Weight	2.01 pounds

8. Warranty and Support

For detailed warranty information and customer support, please refer to the documentation included with your product packaging or visit the official Ascend Aeronautics website. Keep your proof of purchase for warranty claims.

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What should I do if the Ascend Aeronautics ASC-2400 remote control keeps turning off even after installing new batteries?

If your Ascend Aeronautics ASC-2400 remote control continues to turn off or remains unresponsive despite using new batteries, please check the following: Check Battery Polarity: Ensure the 4 AAA batteries are inserted correctly according...

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