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Ascend Aeronautics ASC-2600

Ascend Aeronautics ASC-2600 Premium HD Video Drone User Manual

Model: ASC-2600

INTRODUCTION

Welcome to the world of aerial photography and videography with your new Ascend Aeronautics ASC-2600 Premium HD Video Drone. This manual provides essential information for safe operation, setup, maintenance, and troubleshooting to ensure you get the most out of your drone. Please read this manual thoroughly before operating the drone.

SAFETY INFORMATION

Operating a drone requires responsibility and adherence to safety guidelines. Failure to follow these instructions may result in injury, damage to property, or legal consequences.

- **Age Requirement:** This product is intended for users aged 14 and above.
- **Outdoor Use Only:** Operate the drone in open, clear areas, away from people, animals, and obstacles.
- **Maintain Visual Line of Sight:** Always keep the drone within your direct line of sight during flight.
- **Check Local Regulations:** Be aware of and comply with all local, state, and federal regulations regarding drone operation.
- **Pre-Flight Check:** Before each flight, ensure all parts are securely attached, batteries are charged, and propellers are free from damage.
- **Weather Conditions:** Do not fly in strong winds, rain, snow, or other adverse weather conditions.
- **Battery Safety:** Use only the provided charger and battery. Do not overcharge or short-circuit batteries.
- **Propeller Safety:** Keep hands, face, and loose clothing away from rotating propellers.

PACKAGE CONTENTS

Carefully unpack your drone and ensure all items are present:

- Ascend Aeronautics ASC-2600 Drone

- Remote Controller
- Rechargeable Lithium Battery (for drone)
- USB Charging Cable
- Carrying Case
- Spare Propellers (quantity may vary)
- Instruction Manual (this document)



Figure 1: The ASC-2600 drone and its remote controller as seen in the retail packaging. The packaging highlights key features such as the 1080p HD camera, 115° ultra-wide angle lens, 400-foot range, and optical flow technology.

PRODUCT FEATURES

The ASC-2600 drone is equipped with advanced features for an enhanced flight and photography experience:

- **Ultra-wide Angle Lens:** Provides greater aerial video and photography coverage, capturing more of the scene.
- **1080p HD Camera:** Streams directly to your mobile phone for instant video recording and live viewing.
- **On-board Micro SD Card Recording:** Allows for highest resolution video capture directly on the drone (Micro SD card not included).
- **Optical Flow Technology:** Utilizes advanced sensors for precise longitude and latitude position holding, enhancing stability.
- **Auto Start, Hover, and Auto Land Technology:** Simplifies flight with push-button controls for effortless take-off, stable hovering, and smooth landing.
- **6-Axis Gyro + Altitude Sensors:** Ensures incredibly stable flight performance in various conditions.
- **High-efficiency Lithium Rechargeable Battery:** Extends drone flight time for longer sessions.
- **"Go-Anywhere" Folding Frame:** Designed for easy transportation and compact storage.





Figure 2: The rear of the drone's packaging, detailing key features such as the ultra-wide angle lens, 1080p HD camera, optical flow technology, and the folding frame design.

SETUP

1. Charging the Drone Battery

1. Locate the drone's rechargeable Lithium battery.
2. Connect the USB charging cable to the battery and a compatible USB power source (e.g., computer USB port, USB wall adapter).
3. The charging indicator light will show the charging status (refer to battery or charger for specific light indications).
4. Once fully charged, disconnect the battery from the charger. A full charge typically takes 60-90 minutes.

2. Installing Drone Battery

- Ensure the drone is powered off.
- Locate the battery compartment on the drone.
- Insert the fully charged battery into the compartment, ensuring it clicks securely into place.

3. Installing Controller Batteries

- Open the battery compartment on the back of the remote controller.
- Insert 4 x AAA batteries (not included) according to the polarity indicators (+/-).
- Close the battery compartment securely.

4. Propeller Installation/Check

- The drone comes with pre-installed propellers. Ensure they are securely attached and free from damage.
- If replacing, match the propeller type (A or B) to the corresponding motor arm.

5. Folding Frame Deployment

- Gently unfold the drone's arms until they lock into their extended position. Ensure all four arms are fully extended before flight.



About Ascend Aeronautics™

Ascend Aeronautics was created by a team of engineers passionate about the wonders of flight with more than 25 years of combined experience in building incredible Drones, RC Planes, and Helicopters. We dreamt about the day when consumers could get our high-quality, finely tuned drones at an affordable price. That day has come.



ASC-2600

PREMIUM HD VIDEO DRONE WITH ULTRA-WIDE LENS AND OPTICAL FLOW TECHNOLOGY

- Ultra-Wide angle lens provides greater aerial video and photography coverage
- 1080p HD camera streams directly to your mobile phone for instant video recording
- On board micro SD card recording for highest resolution video*
- New Optical Flow Technology for longitude and latitude position holding
- Push button Auto Start, Hover, and Auto Land technology
- Built-in 6 axis gyro + altitude sensors for incredibly stable flight
- High-efficiency Lithium rechargeable battery extends drone flight time †
- "Go-Anywhere" folding frame designed for easy transportation



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* Micro SD Card not included.

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Figure 3: The ASC-2600 drone and its ergonomic controller, shown within their protective plastic tray. This view highlights the compact design of the drone when its arms are folded.

OPERATING INSTRUCTIONS

1. Powering On and Pairing

1. Place the drone on a flat, level surface.
2. Press and hold the power button on the drone until the indicator lights begin to flash.
3. Turn on the remote controller. The controller's indicator light will also flash.
4. Push the left joystick (throttle) all the way up, then all the way down. The drone and controller lights will become solid, indicating successful pairing.

2. Auto Start, Hover, and Auto Land

- **Auto Start:** Press the dedicated Auto Start button (usually marked with an arrow pointing up) on the controller. The drone will automatically take off and hover at a stable altitude.
- **Hover:** The drone's 6-axis gyro and altitude sensors, combined with Optical Flow Technology, will maintain a stable hover.
- **Auto Land:** Press the dedicated Auto Land button (usually marked with an arrow pointing down) on the controller. The drone will automatically descend and land gently.

3. Flight Controls

Familiarize yourself with the remote controller's joysticks and buttons:

- **Left Joystick (Throttle/Yaw):**
 - Up/Down: Controls altitude (ascend/descend).
 - Left/Right: Controls yaw (rotates the drone left/right).
- **Right Joystick (Pitch/Roll):**
 - Up/Down: Controls pitch (move forward/backward).
 - Left/Right: Controls roll (move left/right sideways).
- **Trim Buttons:** Use these to fine-tune the drone's stability if it drifts in any direction during hover.

4. Camera Operation and Recording

- **Mobile App Connection:** Download the official Ascend Aeronautics app from your mobile device's app store. Connect your phone to the drone's Wi-Fi network (refer to app instructions for specific steps).
- **Live Video Stream:** Once connected, the app will display a live 1080p HD video feed from the drone's camera.
- **Recording to Mobile Device:** Use the app to start/stop video recording or capture photos directly to your phone.
- **Micro SD Card Recording:** For highest resolution video, insert a Micro SD card (up to 32GB, Class 10 recommended, not included) into the drone's designated slot. Recordings will be saved directly to the card.



Figure 4: A detailed view of the drone's features as presented on the packaging, including the 1080p HD camera with 115° ultra-wide angle lens, live streaming capability to mobile devices, and ergonomic controller design.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the drone and controller. Avoid using harsh chemicals or solvents.

- **Propeller Inspection:** Regularly check propellers for cracks, bends, or damage. Replace damaged propellers immediately using the provided spares.
- **Battery Care:**
 - Store batteries in a cool, dry place.
 - Do not store fully charged or completely depleted batteries for extended periods. Charge to about 50% for long-term storage.
 - If the drone will not be used for a long time, remove batteries from both the drone and the controller.
- **Storage:** When not in use, fold the drone's arms and store it in its carrying case to protect it from dust and physical damage.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone does not power on.	Battery is not charged or not inserted correctly.	Charge the drone battery. Ensure the battery is securely inserted.
Drone does not pair with controller.	Incorrect pairing procedure; low controller batteries.	Repeat pairing steps (power on drone, then controller, then joystick up/down). Replace controller batteries.
Drone drifts during flight.	Not calibrated; trim settings incorrect.	Perform a calibration (refer to app or quick start guide for specific steps). Adjust trim buttons on the controller.
Poor video quality or no live feed.	Weak Wi-Fi signal; app not connected; Micro SD card issues.	Ensure strong Wi-Fi connection. Reconnect app. Check Micro SD card for proper insertion and format.
Drone crashes frequently.	Pilot error; strong winds; damaged propellers.	Practice in open areas. Avoid flying in windy conditions. Replace damaged propellers.

SPECIFICATIONS

Feature	Detail
Model Name	ASC-2600
Brand	Ascend Aeronautics
Special Feature	Optical Flow Technology
Video Capture Resolution	1080p
Connectivity Technology	Bluetooth, Wi-Fi
Included Components	Carrying Case, Rechargeable Battery
Skill Level	All

Feature	Detail
Item Weight	16 ounces (1 pound)
Video Capture Format	MP4
Remote Control Technology	Bluetooth
Control Type	Push Button
Media Type	Micro SD
Material	Nylon, Plastic
Battery Cell Composition	Lithium
Supported Image Format	JPEG
Product Dimensions	14"L x 14"W x 14"H

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the contact details provided on the product packaging or visit the official Ascend Aeronautics website. Keep your purchase receipt as proof of purchase for any warranty claims.

UPC: 0810031064397