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SwellPRO FD3

SwellPro FD3 Advanced Fisherman Waterproof Fishing Drone User Manual

Model: FD3

1. Introduction

The SwellPro FD3 Advanced Fisherman is a waterproof fishing drone designed for bait delivery and aerial observation in marine environments. It features a 4K camera system for clear imaging and a dual bait release mechanism for efficient fishing operations. The FD3 incorporates an S5 Flight Controller for enhanced stability, control, and real-time data feedback, ensuring a reliable and safe user experience.
This manual provides essential information for the safe and effective operation, setup, maintenance, and troubleshooting of your SwellPro FD3 drone. Please read it thoroughly before operating the device.

2. Safety Guidelines

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

- **Local Regulations:** Always check and comply with local aviation laws and regulations regarding drone operation.
- **Pre-Flight Check:** Before each flight, inspect the drone, propellers, battery, and remote controller for any damage or abnormalities.
- **Environmental Conditions:** Do not fly in strong winds, heavy rain, fog, or other adverse weather conditions. While the FD3 is waterproof, extreme conditions can affect performance and safety.
- **Line of Sight:** Maintain visual line of sight with the drone at all times during flight.
- **Obstacle Avoidance:** Keep the drone away from people, animals, buildings, power lines, and other obstacles.
- **Battery Safety:** Use only approved batteries and chargers. Do not overcharge or puncture batteries. Store batteries in a cool, dry place.
- **Respect Privacy:** Do not use the drone to invade the privacy of others.
- **Emergency Procedures:** Familiarize yourself with the drone's emergency return-to-home function and manual landing procedures.

3. Package Contents

Upon unboxing, verify that all components are present and in good condition. The standard package for the SwellPro FD3 Advanced Fisherman includes the following items:



Image: The SwellPro FD3 Advanced Fisherman drone, remote controller, battery, charger, and bait release mechanism are shown. The drone is orange and black with four propellers. The remote controller is orange with a screen in the center. The battery is orange, and the charger is black. A grey bait release module is also visible.

- SwellPro FD3 Advanced Fisherman Drone (with 4K Camera and Dual Bait Release Module)
- Remote Controller
- Intelligent Flight Battery
- Battery Charger
- Propellers (set)
- User Manual (this document)
- Necessary cables and tools

4. Setup

4.1 Charging the Battery

1. Connect the battery charger to a power source.
2. Connect the intelligent flight battery to the charger.
3. Monitor the charging indicator lights on the charger. Charging is complete when all indicators show a full charge.
4. Always ensure batteries are fully charged before flight.

4.2 Installing Propellers

- Identify the correct propellers for each motor (usually marked A and B, or with different colored nuts/bases).
- Attach the propellers firmly to their corresponding motor shafts, ensuring they are securely locked in place.
- Verify that all propellers spin freely without obstruction.

4.3 Installing the Flight Battery

- Open the battery compartment on the drone.
- Insert the fully charged intelligent flight battery into the compartment, ensuring it clicks into place.
- Close the battery compartment securely.

4.4 Remote Controller Preparation

- Ensure the remote controller's battery is charged.
- Attach the antennas to the remote controller.
- Power on the remote controller.

5. Operating Instructions

5.1 Pre-Flight Checks

- Confirm all batteries (drone and remote) are fully charged.
- Ensure propellers are correctly installed and secure.
- Check for any physical damage to the drone or remote controller.
- Verify the bait release mechanism is functioning correctly and any bait is securely loaded (max 4.8 LBS / 2.2 KG).
- Check GPS signal strength on the remote controller before takeoff.

5.2 Takeoff and Landing

1. Place the drone on a flat, open surface, clear of obstacles.
2. Power on the drone, then the remote controller. Wait for the drone and remote to establish a connection and acquire sufficient GPS satellites.
3. Perform motor arming sequence (refer to remote controller specific instructions).
4. Slowly increase the throttle to lift off. Maintain a stable hover at a safe altitude.
5. To land, slowly decrease the throttle, bringing the drone down gently. Once landed, disarm the motors.

5.3 Flight Modes

- **GPS Mode:** Provides stable hovering and precise positioning using GPS satellites. Recommended for most operations. Max flight speed: 22 mph / 10 m/s.
- **ATTI Mode:** Altitude hold mode without GPS positioning. Requires more pilot skill. Max flight speed: 40 mph / 18 m/s (without payload); 31 mph / 14 m/s (with payload).

5.4 Bait Release Operation

The FD3 features a dual bait release system. Specific controls for activating the release mechanism are located on the remote controller. Refer to the remote controller's dedicated manual for button assignments and operation.

5.5 4K Camera Operation

The integrated 4K camera allows for high-resolution video recording and still photography. Controls for camera functions (start/stop recording, take photo) are typically found on the remote controller. Ensure a compatible SD card is inserted into the camera before use.

5.6 Safe Return Function

In case of low battery or loss of signal, the FD3 is equipped with a Safe Return function. This feature automatically drops any loaded baits and initiates a return to the recorded home point. Ensure the home point is accurately set before takeoff.

5.7 Flight Time Considerations

- No baits: Approximately 27 minutes
- With 1 KG / 2.2 lbs payload: Approximately 14 minutes
- With 2 KG / 4.4 lbs payload: Approximately 9 minutes

Actual flight times may vary based on environmental conditions, flight style, and battery health.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your SwellPro FD3 drone.

- **Cleaning:** After use, especially in saltwater, rinse the drone thoroughly with fresh water. Dry completely before storage. Do not use harsh chemicals.
- **Propeller Inspection:** Regularly check propellers for cracks, bends, or chips. Replace damaged propellers immediately.
- **Battery Care:** Store batteries at approximately 50-60% charge if not used for extended periods. Avoid extreme temperatures.
- **Motor Inspection:** Ensure motors are free from sand, salt, or debris.
- **Storage:** Store the drone and its components in a cool, dry place, away from direct sunlight and extreme temperatures.

7. Troubleshooting

This section addresses common issues you might encounter with your SwellPro FD3 drone.

- **Drone Not Powering On:**
  - Ensure the flight battery is fully charged and correctly installed.
  - Check for any visible damage to the battery or drone's power port.
- **Loss of Signal/Connection:**
  - Ensure the remote controller is fully charged and its antennas are properly oriented.
  - Fly within the recommended operational range.
  - Avoid areas with strong electromagnetic interference.

- **Poor Video Quality/No Recording:**
  - Check if an SD card is inserted and has sufficient free space.
  - Ensure the SD card is compatible and formatted correctly.
  - Clean the camera lens.
- **Drone Drifts During Flight:**
  - Perform IMU and compass calibration as per the drone's software instructions.
  - Ensure strong GPS signal in GPS mode.
  - Check for propeller damage or imbalance.

For persistent issues, refer to the official SwellPro support resources or contact customer service.

8. Specifications

Model Name	FD3
Waterproof Rating	IP67
Drone Weight	5.5 lbs / 2.54 kg (including battery, propellers, gimbal camera, and payload release module)
Size (w/o propeller)	14.6 x 14.6 x 7.9 inches / 372 x 372 x 202 mm
Max Ascend Speed	7 mph / 3 m/s
Max Descent Speed	4.5 mph / 2 m/s
Max Flight Speed (GPS Mode)	22 mph / 10 m/s
Max Flight Speed (ATTI Mode, w/o payload)	40 mph / 18 m/s
Max Flight Speed (ATTI Mode, with payload)	31 mph / 14 m/s
Max Tilt Angle	30°
Bait Capacity	4.8 LBS / 2.2 KG
Flight Time (No baits)	~ 27 minutes
Flight Time (1 KG / 2.2 lbs payload)	~ 14 minutes
Flight Time (2 KG / 4.4 lbs payload)	~ 9 minutes
Video Capture Resolution	4K
Battery Capacity	4200 Milliamp Hours
Connectivity Technology	Wi-Fi
Control Type	Remote Control

Supported Image Format	JPEG
Video Capture Format	MP4
Item Weight (Total)	10 Pounds
Product Dimensions	20"L x 10"W x 10"H

9. Warranty and Support

For warranty information, please refer to the warranty card included with your product or visit the official SwellPro website. Warranty terms and conditions may vary by region and retailer.
For technical support, troubleshooting assistance, or spare parts, please contact SwellPro customer service or your authorized dealer. Keep your purchase receipt and product serial number handy when contacting support.
SwellPro Official Website: www.swellpro.com

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