NAFYRE N11 PRO

NAFYRE N11 PRO GPS Drone User Manual

Model: N11 PRO | Brand: NAFYRE

1. Introduction

Welcome to the NAFYRE N11 PRO GPS Drone user manual. This guide provides essential information for safe and effective operation of your drone. Please read thoroughly before first use.

Key Features:

- **Lightweight Design:** Weighs under 0.55lb (249g), eliminating the need for FAA registration in the United States.
- **Extended Flight:** Equipped with 3 batteries for up to 90 minutes of total flight time.
- **Long Control Range:** Offers a control range of up to 3328 feet.
- **Advanced Camera:** Features a 4K UHD camera with Electronic Image Stabilization (EIS), 5G WiFi FPV transmission, and a 90° remote adjustable wide-angle lens.
- **Dual Positioning System:** Combines Optical Flow for stable indoor flight and GPS for precise outdoor positioning.
- **Intelligent Flight Modes:** Includes Auto Return, Follow Me, Tap Fly, and Point of Interest for enhanced flight experience.
- **Brushless Motors:** Provides strong wind resistance, faster, quieter, and more powerful flight.
- **Portable Design:** Foldable arms and a durable carrying case make it ideal for travel.

Image: The NAFYRE N11 PRO GPS Drone, showcasing its sleek design and foldable arms.

Image: The N11 PRO drone highlighting its lightweight design, which does not require FAA registration.

2. Safety Precautions

To ensure safe operation and prevent injury or damage, please adhere to the following guidelines:

- Always operate the drone in strict accordance with this instruction manual.
- Abide by all local regulations and ensure flight is conducted in open airspace, away from people, buildings, and obstacles.
- Do not operate the drone in adverse weather conditions such as strong winds, rain, or snow.
- Ensure all batteries (drone and controller) are properly charged and in good condition before each flight.
- Regularly check propellers for damage or deformation and replace them if necessary.
- Maintain a safe distance from the drone during take-off and landing.

3. What's in the Box

Upon unboxing your NAFYRE N11 PRO GPS Drone, you should find the following components:

- NAFYRE N11 PRO GPS Drone
- Remote Controller
- 3 x 2000mAh Li-PO Batteries (for drone)
- USB Charging Cables (for drone batteries and controller)
- Spare Propellers
- Screwdriver
- User Manuals (Quick Start Guide, Operating Guide)
- Durable Carrying Case

Image: The NAFYRE N11 PRO Drone in its compact, folded state, held in hand.

Image: The NAFYRE N11 PRO Drone with its arms unfolded, ready for flight.

Unboxing and Components Overview:

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Video: A detailed overview of the NAFYRE N11 PRO GPS Drone's components and initial unboxing process.

4. Setup

4.1 Charging Batteries

Ensure both the drone batteries and the remote controller are fully charged before flight.

- Use the provided USB charging cables.
- Connect the drone battery to its respective charging cable and a suitable USB power source. The red indicator light will illuminate during charging and turn off when fully charged. Charging time is approximately 360 minutes.
- Connect the remote controller to its charging cable and a suitable USB power source. The green indicator light will illuminate during charging and turn off when fully charged. Charging time is approximately 40 minutes.
- Do not overcharge batteries. Keep away from fire or flammable materials during charging.

Image: The 2000mAh Li-PO batteries for the NAFYRE N11 PRO Drone, providing up to 90 minutes of flight time with three batteries.

4.2 Propeller Installation and Check

Before each flight, inspect the propellers for any damage or deformation. Replace them if necessary.

- Install the propeller blades according to the letter markings on the blades and drone arms.
- The 'A' blade can only be installed on the 'A' arm, and the 'B' blade can only be installed on the 'B' arm.

4.3 Drone Assembly

- Unfold the drone arms carefully until they lock into place.

- Insert a fully charged drone battery into the designated slot on the drone until it clicks securely.

4.4 App Installation

Download and install the NAFYRE GPS app on your smartphone for enhanced control and features.

- Scan the QR code provided in the instruction manual to download the app.
- During the installation process, a pop-up window may request authorization. Please click "Agree" to proceed.

4.5 Connecting Controller and Phone

- Orient the drone's head and the controller in the same direction.
- Long-press the power button on the controller to turn it on. It will automatically connect to the drone.
- Open the WLAN settings on your phone, select and connect to the drone's WiFi network (e.g., HY-GPS-002-c9ee68).
- Open the NAFYRE GPS app and click "Start Flight" to access the flight interface.
- Install your phone onto the phone holder of the controller to view the drone's camera feed during flight.

5. Operating Instructions

5.1 Power On/Off

- To power on the drone, long-press the power button located underneath the drone. The LED lights will illuminate.
- To power off, long-press the power button again.

5.2 Calibration

Proper calibration ensures stable and accurate flight.

- **Gyroscope Calibration:** Place the drone on a level surface. Press the gyroscope calibration button on the controller. The drone's indicator light will flash rapidly and then stay lit. The controller will emit a beeping sound, indicating completion.
- **Geomagnetic Calibration:** Press the geomagnetic calibration button on the controller. The controller will emit a beeping sound, and the drone's indicator light will flash rapidly. Hold the drone in your hand and rotate it clockwise slowly three times in a horizontal direction. Then, with the drone's head facing downwards, rotate it slowly clockwise three times. When the controller emits two beeps, the calibration is complete.

5.3 Flight Modes

- **Indoor Mode:** Use after completing gyroscope and geomagnetic calibration.
- **Outdoor Mode:** Requires waiting for the GPS signal search to finish after calibration. Place the drone on an open and level surface outdoors. When the GPS signal strength exceeds 9, the drone indicator lights and the outdoor mode indicator light will change from a slow flash to a solid light. At this point, you can unlock and use the drone.

5.4 Basic Flight Controls

Familiarize yourself with the remote controller's joysticks:

- **Left Joystick:** Push up to fly upwardly, push down to fly downwardly, push left to turn left, push right to turn right.
- **Right Joystick:** Push up to fly forwardly, push down to fly backwardly, push left to fly to the left, push right to fly to the right.
- **Hover:** Release all joysticks, and the drone will hover stably in place.
- **Speed Control:** Press the Speed button on the controller. One beep indicates Low Speed, two beeps indicate High Speed.

5.5 Intelligent Flight Features

The N11 PRO offers several GPS-assisted intelligent flight features:

- **Auto Return (One-Click Return):** Press the Return Button, and the drone will automatically fly back to its home point. The drone's position is set as the home point when the GPS signal reaches 9 for the first time.
- **Automatic Return (Low Battery/Signal Loss):** If the drone loses connection with the controller or when the battery level falls below a safe threshold, the drone will automatically return to the home point.
- **Follow Me:** Click the "Follow Me" mode icon in the app. Ensure you stay 2 meters ahead of the drone. The drone will automatically recognize and follow you (indicated by a blue box turning red around you on the screen).
- **Tap Fly (Waypoint Flight):** Click on the waypoint flight icon in the app. Select waypoints on the map, upload the commands, and the drone will fly according to that path.
- **Point of Interest (Surround Flight):** Click on the Surround Flight icon in the app. Select clockwise or counterclockwise orbit, upload the commands, and the drone will perform a surround flight with its current position as the center in the chosen direction.

Image: Visual representation of the N11 PRO's Intelligent Return-to-Home (RTH) features.

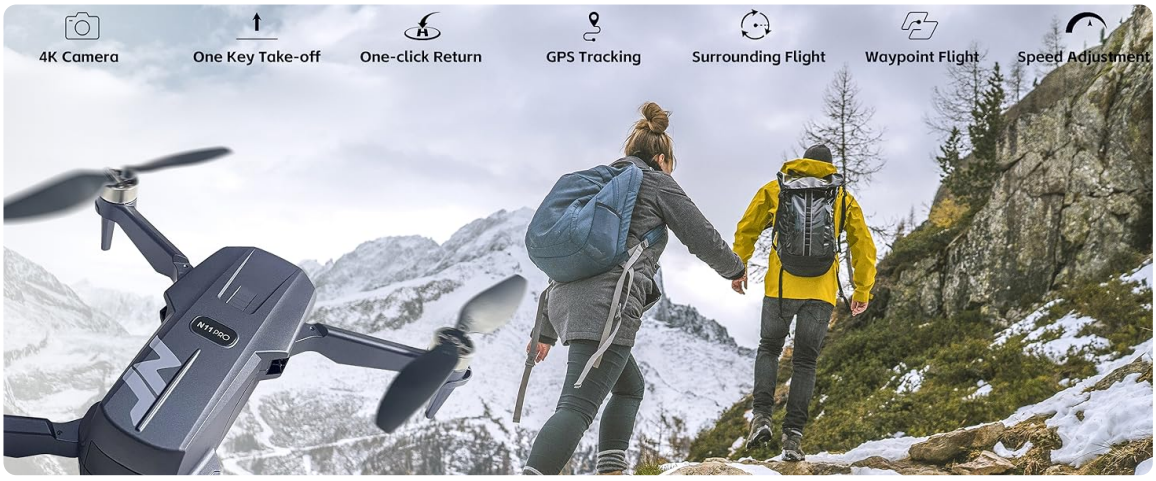

Image: Icons representing the N11 PRO's intelligent flight features including 4K Camera, One Key Take-off, One-click Return, GPS Tracking, Surrounding Flight, Waypoint Flight, and Speed Adjustment.

5.6 Camera Operation

The N11 PRO is equipped with a 4K UHD camera for high-quality aerial photography and videography.

- **4K UHD Camera:** Offers high-resolution imagery (4096x3072 photos) and 1080p videos.

- **Electronic Image Stabilization (EIS):** Ensures smooth video recording.
- **5G FPV Transmission:** Provides stable and smooth video streaming to your connected smartphone.
- **Adjustable Camera Angle:** The 100-degree wide-angle lens can be adjusted 90 degrees up and down via the remote control or the app.
- **Gesture Control:** About 2m in front of the drone, hold the "YEAH" gesture for 3 seconds to take photos. Make a "PALM" gesture to start/stop video recording.

Image: Close-up view of the N11 PRO's 4K UHD camera with 90° adjustable angle and 130° FOV.

Image: Demonstrating the EIS 4K UHD Camera's capability for sharp visuals and smooth video.

Flight Demonstration:

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Video: A flight test of the NAFYRE N11 PRO drone, showcasing its stability and ease of control.

6. Maintenance

Proper maintenance ensures the longevity and optimal performance of your NAFYRE N11 PRO drone.

- **Cleaning:** Regularly wipe the drone body and camera lens with a soft, dry cloth. Avoid using harsh chemicals.
- **Propellers:** Inspect propellers for cracks, bends, or debris before and after each flight. Replace damaged propellers immediately using the provided spares.
- **Batteries:** Store batteries in a cool, dry place away from direct sunlight. Do not store fully charged or completely depleted batteries for extended periods. Charge them to about 50-60% for long-term storage.
- **Storage:** When not in use, store the drone in its durable carrying case to protect it from dust and physical damage.
- **Motors:** Keep the brushless motors free from dust and debris. Avoid operating in sandy or dusty environments.

7. Troubleshooting

If you encounter any issues with your NAFYRE N11 PRO drone, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Drone does not power on	Low battery or incorrect battery installation	Ensure battery is fully charged and correctly inserted.
Drone cannot connect to controller	Controller not powered on or out of range	Power on controller and ensure it's within range. Re-pair if necessary.
Unstable flight/Drifting	Improper calibration or strong winds	Perform gyroscope and geomagnetic calibration. Avoid flying in strong winds.
No FPV video feed	Phone not connected to drone's WiFi or app issue	Verify WiFi connection to drone. Restart app and drone.
Auto Return not working	Weak GPS signal or home point not set	Ensure strong GPS signal (exceeds 9 satellites) before flight.

8. Specifications

Feature	Detail
Brand	NAFYRE
Model Name	N11 PRO
Item Weight	26 Grams (0.917 ounces)
Product Dimensions	3.74"L x 3.74"W x 1.18"H
Material	Plastic
Video Capture Resolution	4K
Video Capture Format	MP4
Supported Image Format	JPEG
Connectivity Technology	Wi-Fi (5G FPV)
Remote Control Technology	Radio Frequency
Control Type	Remote Control
Battery Cell Composition	Lithium Ion
Optical Sensor Technology	CMOS, Optical Flow
Frequency	2440–2468mhz
Output Power	2mW

9. Warranty & Support

NAFYRE offers a 1-year warranty for replacing damaged parts and a 30-day money-back guarantee for any reason. For any questions or support needs, please contact NAFYRE customer service.