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NAFYRE N11 PRO

NAFYRE N11 PRO GPS Aerial Drone User Manual

MODEL: N11 PRO | BRAND: NAFYRE

1. Safety Information

To avoid injury and ensure safe operation, please read and strictly follow all instructions in this manual. Always operate the drone in accordance with local regulations and within open airspace, away from people, animals, and obstacles.

- Always maintain a visual line of sight with the drone.
- Do not fly near airports, restricted airspace, or sensitive areas.
- Check weather conditions before flying. Avoid flying in strong winds, rain, or fog.
- Ensure all propellers are securely attached and undamaged before each flight.
- Keep hands and face clear of rotating propellers.

2. Package Contents

Verify that all items listed below are included in your package:

- NAFYRE N11 PRO GPS Aerial Drone
- Remote Controller
- Intelligent Flight Batteries (x3)
- USB Charging Cables (for drone batteries and controller)
- Spare Propellers (x4)
- Screwdriver
- User Manuals (Quick Start Guide, Operating Guide)
- Portable Carrying Case



Image: NAFYRE N11 PRO GPS Drone and all included accessories, neatly organized in its portable carrying case.

3. Setup

3.1 Charging the Batteries

Use the original charging cables provided. Connect the drone's intelligent flight battery to a USB power source. The red indicator light will illuminate during charging and turn off when fully charged (approximately 360 minutes). For the remote controller, connect it to a USB power source. The green indicator light will illuminate during charging and turn off when fully charged (approximately 40 minutes). Do not overcharge the batteries.

3.2 App Installation

Scan the QR code provided in the instruction manual to download and install the NAFYRE GPS app on your smartphone (available for iOS and Android). During installation, a pop-up window may request authorization; please click "Agree" to proceed.

3.3 Propeller Check and Installation

Before each flight, inspect all propellers for any damage or deformation. Replace any damaged propellers immediately using the provided spare parts and screwdriver. Ensure that A blades are installed on A arms and B blades on B arms, matching the letter markings.

3.4 Battery Installation and Unfolding Drone Arms

Insert the charged intelligent flight battery into the drone until it clicks securely into place. Carefully unfold the drone arms until they are fully extended.

3.5 Powering On the Drone

Place the drone on a level surface. Long-press the power button located on the drone's underside. The LED lights on the drone will begin flashing.

3.6 Connecting the Controller

Orient the drone's head and the remote controller in the same direction. Long-press the power button on the controller to turn it on. The controller will automatically connect to the drone.

3.7 Calibration

Perform both Gyroscope and Geomagnetic calibration for stable flight:

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

3.8 GPS Signal Search

In outdoor mode, place the drone on an open and level surface outdoors. The drone will automatically search for GPS signals. 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.

3.9 Connecting Your Phone to the Drone's WiFi

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 live feed and controls.

Ultra-portable/Lightweight

GPS drone under 249g,
No FAA registration required.

<249g



Image: The NAFYRE N11 PRO is designed to be ultra-portable and lightweight, weighing less than 249g, which means no FAA registration is required in many regions.

4. Operating the Drone

4.1 Basic Flight Controls

- **Unlock:** Press the Unlock button on the controller. The propellers will start to spin. If there is no operation within 10 seconds, the drone will automatically lock.
- **Left Joystick:** Push it up to fly the drone upwardly. Push it down to fly the drone downwardly. Push it to the left to turn the drone left. Push it to the right to turn the drone right.
- **Right Joystick:** Push it up to fly the drone forwardly. Push it down to fly the drone backwardly. Push it to the left to fly the drone to the left. Push it to the right to fly the drone to the right.
- **Hover:** Release all joysticks, and the drone will hover in place.

4.2 Speed Modes

Press the Speed button on the controller. One beep sound indicates Low Speed, two beep sounds indicate High Speed.

4.3 One-Click Return

Press the Return Button on the controller, 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.

4.4 Automatic Return

When 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.



Image: Intelligent Return-to-Home (RTH) features of the NAFYRE N11 PRO, including One-key RTH, Low power RTH, and Out of control RTH, supported by GPS positioning and dual antennas.

4.5 Intelligent Flight Modes

- **Follow Me Mode:** Click the "Follow Me" mode icon in the app to activate. Stay 2 meters ahead of the drone, and it will automatically recognize and follow you (indicated by a blue box turning red on the screen).
- **GPS Follow Mode:** Click the GPS Follow icon in the app to activate. The drone will automatically follow your mobile phone for flight.
- **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.
- **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.

4.6 Taking Photo and Video

- **Taking Photo:** Click the Taking Photo icon in the APP to take a photo.
- **Shooting Video:** Click the Recording icon in the APP to shoot a video.
- **Switching Camera:** Click on the Switch Camera icon in the APP to switch between different camera combinations.
- **Adjusting Camera Angle:** Slide the Camera Angle Adjustment knob on the controller to adjust the angle of the front camera 90° up and down.
- **Gesture Photo and Video:** About 2m in front of the drone, hold the gesture for 3 seconds. Make "YEAH" gesture to take photos. Make PALM gesture to shoot video. Make the same gesture again, and the recording will end.



Image: Advanced EIS 4K UHD Camera features Electronic Image Stabilization (EIS), 5G FPV, 90-degree remote adjustable angle, and a 130-degree Field of View (FOV) for high-resolution imagery and smooth video.

4.7 Official Product Videos

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Video: NAFYRE N11 PRO GPS Drone Review. This video provides an overview and review of the NAFYRE N11 PRO GPS Drone, demonstrating its features and performance.

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Video: NAFYRE N11 Flight Test. This video showcases the NAFYRE N11 drone during a flight test, demonstrating its stability and maneuverability.

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Video: N11 PRO GPS Foldable Drone Operation Guide. This video serves as an operation guide for the N11 PRO GPS Foldable Drone, detailing setup and basic flight procedures.

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Video: NAFYRE N11 PRO GPS Drone Review and Flight Test. This video offers another review and flight test of the NAFYRE N11 PRO GPS Drone, highlighting its capabilities.

5. Maintenance

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

- **Cleaning:** Use a soft, dry cloth to clean the drone body and camera lens after each flight. Avoid using harsh chemicals or solvents.
- **Propellers:** Regularly inspect propellers for cracks, bends, or debris. Replace them as needed.
- **Battery Care:** Store batteries in a cool, dry place. Do not leave batteries fully charged or fully discharged for extended periods. Charge them to about 50-60% for long-term storage.
- **Storage:** Always store the drone and its accessories in the provided portable carrying case to protect them from dust, moisture, and physical damage.

6. Troubleshooting

If you encounter any issues, refer to the following common troubleshooting steps:

- **Drone won't power on:** Ensure the battery is fully charged and correctly installed.
- **Controller won't connect:** Ensure both the drone and controller are powered on and properly oriented. Try restarting both devices.
- **Unstable flight:** Perform gyroscope and geomagnetic calibration again on a flat, level surface. Check propellers for damage.
- **No live video feed:** Ensure your smartphone is correctly connected to the drone's WiFi network and the NAFYRE GPS app is open and connected.
- **GPS signal issues:** Ensure you are flying in an open outdoor area with clear skies. Wait for the GPS signal strength to exceed 9 before attempting flight.

7. Specifications

- **Brand:** NAFYRE
- **Model:** N11 PRO
- **Weight:** <249g (No FAA registration required in many regions)
- **Dimensions:** 4.72 x 2.95 x 1.96 inches (folded)
- **Camera:** Advanced EIS 4K UHD Camera, 100-degree wide angle, 90-degree remote adjustable angle, 130-degree FOV
- **Flight Time:** Up to 90 minutes (with 3 intelligent flight batteries, 30 minutes per battery)
- **Control Range:** Up to 3,328 feet

- **Motors:** Brushless motors for stronger wind resistance and quieter operation
- **Positioning:** GPS Positioning, Optical Flow Positioning
- **Intelligent Flight Features:** Auto Return, Follow Me, Tap Fly, Waypoint Flight, Surround Flight, Gesture Control
- **FPV:** 5G FPV for zero latency video transmission
- **UPC:** 718027271388



Image: Efficient power management system of the NAFYRE N11 PRO, featuring a 2000mAh, 3.7V Li-PO battery that discharges efficiently, providing approximately 30 minutes of flight time per battery, totaling 90 minutes with three batteries.

8. Warranty and Support

NAFYRE provides a limited warranty for this product. For detailed warranty information, technical support, or any inquiries, please refer to the contact information provided in the Quick Start Guide or visit the official NAFYRE website.