

## VISUO XS812

# VISUO XS812 GPS WiFi FPV Drone

## INSTRUCTION MANUAL

### Introduction

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This manual provides essential information for the safe and efficient operation of your VISUO XS812 GPS WiFi FPV Drone. The XS812 features a foldable design, GPS positioning, a 2MP camera for real-time FPV and recording, and various intelligent flight modes. Please read this manual thoroughly before operating the drone to ensure proper usage and to prevent damage.

### 1. Setup

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Before your first flight, ensure all components are correctly assembled and charged.

#### 1.1 Unfolding the Drone

Gently unfold the drone arms until they lock into position. Ensure all four arms are fully extended.



Image: The VISUO XS812 drone with its arms unfolded, viewed from the top, ready for flight.

## 1.2 Battery Installation and Charging

1. Insert the 1800mAh 3.85V quadrotor battery into the drone's battery compartment. Ensure it is securely latched.
2. Connect the battery to the provided charger. The charging time is approximately 180-200 minutes. Do not overcharge the battery.

## 1.3 Propeller Attachment

Attach the propellers to the corresponding motor shafts. Ensure the correct propellers (A and B) are installed on the designated motors as indicated in the drone's markings. Tighten securely.

## 1.4 Remote Controller Setup

Install 3x AA batteries (not included) into the remote controller. Power on the controller and then the drone. Follow the pairing instructions in the operating section to establish a connection.

## 1.5 Camera and FPV Connection

Download the VISUO FPV application (APP/APK) on your smartphone. Connect your phone to the drone's 5G WiFi network. This enables real-time video transmission and allows you to capture photos and videos.

## 2. Operating Instructions

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Familiarize yourself with the flight controls and intelligent features before flying.

### 2.1 Basic Flight Controls

- **Take-off/Landing:** Use the dedicated one-key take-off/landing button or manually control with the throttle stick.
- **Ascend/Descend:** Control with the left joystick (throttle).
- **Forward/Backward:** Control with the right joystick.
- **Turn Left/Right:** Control with the left joystick (yaw).
- **Sideward Flight (Left/Right):** Control with the right joystick.
- **360° Rolling:** Press the 3D roll button and move the right joystick in the desired direction.

## 2.2 Intelligent Flight Modes

- **GPS Positioning Mode:** Provides stable flight and precise return-to-home functionality. Ensure GPS signal is strong before activating.



Image: The VISUO XS812 drone illustrating its GPS satellite positioning capability for precise flight and return.

- **Altitude Hold Mode:** Maintains a stable altitude, allowing for easier control and clearer aerial photography.
- **Headless Mode:** Eliminates the need to adjust the drone's position before flight, as its orientation is relative to the pilot.
- **One Key Return:** Initiates an automatic return to the take-off point. Ensure GPS is active for accurate return.
- **Follow Me Mode (Outdoor Only):** The drone will automatically follow the operator based on the mobile phone's GPS signal.
- **Waypoint Route Mode (Outdoor Only):** Draw a flight path on the app screen, and the drone will follow the

specified route.

- **Surround Action (Outdoor Only):** The drone will fly in a circle around a designated point, providing a dynamic shooting perspective.

### 2.3 Speed Control

The drone offers 3 levels of flight speed. Adjust the speed according to your skill level and environmental conditions.

### 2.4 Night Navigation

Equipped with high-brightness LED lights, the drone can be flown and navigated in low-light conditions or at night.



Image: The VISUO XS812 drone displaying its bright LED lights, enabling clear navigation during night flights.

## 3. Maintenance

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

### 3.1 Battery Care

- Always use the original charger.
- Do not leave batteries charging unattended.
- Store batteries in a cool, dry place away from direct sunlight and extreme temperatures.
- If not used for extended periods, charge the battery to about 50% for storage.

### 3.2 Cleaning

- Use a soft, dry cloth to clean the drone body.
- For the camera lens, use a specialized lens cleaning cloth to avoid scratches.
- Avoid using harsh chemicals or solvents.

### 3.3 Propeller Inspection

Regularly inspect propellers for any signs of damage, cracks, or bends. Replace damaged propellers immediately to ensure stable flight.

### 3.4 Storage

When not in use, fold the drone arms and store it in its original packaging or a protective case to prevent damage.

## 4. Troubleshooting

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This section addresses common issues you might encounter.

- **Drone does not power on:** Check if the battery is fully charged and correctly installed.
- **Drone does not respond to controller:** Ensure both the drone and controller are powered on and properly paired. Re-pair if necessary.
- **Unstable flight:** Perform a gyroscope calibration. Check propellers for damage and ensure they are correctly installed. Ensure flight is in an open area away from interference.
- **FPV image is blurry or disconnected:** Ensure your smartphone is connected to the drone's 5G WiFi network. Check for strong signal interference. Clean the camera lens.
- **GPS features not working:** Ensure the drone has acquired sufficient GPS satellites (indicated by the GPS status light) before attempting GPS-dependent functions. Fly in an open outdoor area.
- **Low Power Protection:** The drone is equipped with low power protection. If the battery is critically low, the drone may automatically land or return to prevent loss of power during flight.
- **Overcurrent Protection:** The drone has overcurrent protection to prevent damage from excessive current draw.

## 5. Specifications

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Feature	Specification
Brand	VISUO
Model	XS812
Frequency	2.4G
Channels	4CH

Gyro	6-Axis
FPV	WiFi 5G
Camera	2MP
Quadrotor Battery	1800mAh 3.85V
Flight Time	Approximately 15 minutes
Charging Time	Approximately 180-200 minutes
R/C Distance	Approximately 200 meters
Flying Weight	200-300g
Color	Black
Features	Foldable arms, GPS Positioning, Altitude Hold, Headless Mode, One Key Return, 3-level speed, 3D Rolling, LED lights, Overcurrent Protection, Low Power Protection
UPC	746614085575
Part Number	03441

## 6. Warranty and Support

Information regarding product warranty and customer support was not provided in the available data. Please refer to your product packaging, purchase receipt, or the official VISUO website for details on warranty coverage and how to contact customer support for assistance.