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**RAGPIP X66**

# RAGPIP X66 Foldable Drone with 1080P FPV Camera User Manual

Model: X66
Brand: RAGPIP

## Introduction

This manual provides essential information for operating your RAGPIP X66 Foldable Drone. Please read thoroughly before use to ensure safe and optimal performance.

## Product Overview

### Key Features

- **1080P HD 90° Electric Adjustable Camera with FPV:** Capture high-quality photos and videos from a bird's-eye perspective.
- **Optical Flow Positioning:** Ensures stable and controllable flight, maintaining a consistent height.
- **Altitude Hold:** Allows the drone to hover steadily in the air.
- **Multiple Flight Functions:** Includes Waypoint Fly, Gesture Selfie, 360° Flips, Gravity Control, 3 Speeds, and Headless Mode for a delightful flying experience.
- **One-Key Take-off/Landing:** Simplifies starting and ending flights for ease of use.
- **Foldable and Portable Design:** Easy to carry and store, making it convenient for travel.
- **LED Lights:** Provides powerful illumination for night flying, enhancing the visual experience.
- **Two 1000mAh Batteries:** Offers extended flight time of up to 25 minutes per battery.
- **Safety Features:** Equipped with overcurrent protection, emergency stop, and low power alerts for a safe and reliable flight.

## What's in the Box

### Package Contents

- 1 x RAGPIP X66 Drone

- 1 x Remote Controller
- 2 x 1000mAh Drone Batteries
- 1 x USB Charging Cable
- 4 x Spare Propellers
- 4 x Propeller Guards
- 1 x Screwdriver
- 1 x User Manual
- 1 x Carrying Case

*Video: Unboxing and overview of the RAGPIP X66 Drone and its accessories.*

## Setup

### Battery Installation

**Drone Battery:** Insert the charged drone battery into the designated compartment on the drone's underside. Ensure it clicks securely into place.
**Remote Controller Batteries:** The remote controller requires 3 AA batteries (not included). Open the battery compartment on the back of the remote and insert the batteries, observing polarity.

### Propeller Guard Installation

Attach the propeller guards to the bottom of each motor arm. Ensure they are securely fastened to protect the propellers during flight.




*Image: The drone with propeller guards attached, illustrating protection for the blades.*

### App Download & Connection

Scan the QR code in the user manual or search "X66 DRONE" in your app store (Android 6.0+ / iOS 11.0+ or above) to download the application.
Turn on the drone and the remote controller.
On your mobile device, go to Wi-Fi settings and connect to the Wi-Fi network starting with "X66DRONE_XXXXXX".
Open the "X66 DRONE" app to view the FPV feed and control the drone.

### Power On & Frequency Alignment

Place the drone on a horizontal surface. Turn on the drone's power switch; the lights will flash. The drone is now in

standby mode.
Turn on the remote controller. Wait for automatic frequency synchronization. A beep sound indicates successful synchronization. The drone lights will remain solid.

### Horizontal Calibration

Move both the left and right control sticks of the remote controller simultaneously to the lower left and lower right corners. The drone lights will flicker to a constant light, indicating successful horizontal calibration.

## Operating Instructions

### Take-off and Landing

**One-Key Take-off:** After successful calibration, push the left control stick of the remote controller upwards, and the propellers will slowly rotate. Push the One-Key Take-off/Landing button to automatically take off.
**One-Key Landing:** When the drone is in flight, press the One-Key Take-off/Landing button, and the drone will slowly descend to the ground and shut down.

### Basic Flight Controls

Use the left joystick to control altitude (up/down) and rotation (left/right).
Use the right joystick to control forward/backward and left/right sideward flight.

### Camera Operation

The 1080P HD camera has a 90° electric adjustable lens. Adjust the camera angle via the remote controller or app for optimal viewing.
FPV transmission allows live 1080P HD pictures and videos to be viewed on your smartphone via the app.




*Image: The RAGPIP X66 drone featuring its 1080P HD camera and FPV real-time transmission capabilities.*

## Special Flight Features

**Optical Flow Positioning:** The drone uses optical flow positioning to maintain a stable hover at a certain height, making it easier to control and capture clear photos/videos.




*Image: The RAGPIP X66 drone hovering stably due to optical flow positioning, ensuring better photos and videos.*

**Altitude Hold:** The altitude hold feature allows the drone to maintain a consistent height without constant throttle input.

**Headless Mode:** In Headless Mode, the drone's orientation is locked to the remote controller's orientation, simplifying flight control regardless of the drone's actual front direction.

**360° Flips:** Perform stunning 360-degree flips with a simple button press and joystick movement.

**Gravity Control:** Control the drone's flight by tilting your smartphone in the desired direction.

**Trajectory Flight:** Draw a flight path on the app interface, and the drone will automatically follow the specified route.

**3 Speeds:** Switch between 3 flight speeds (low, medium, high) to match your skill level and environment.




*Image: The RAGPIP X66 drone demonstrating its multiple functions including 360° flip, gravity control, and waypoint fly.*

## Safety Precautions

### Important Safety Guidelines

- Always operate the drone in open, clear areas away from obstacles, people, and animals.
- Do not fly in strong winds or adverse weather conditions.
- Ensure all propellers are correctly installed and free from damage before each flight.
- Keep fingers and other body parts away from rotating propellers.
- Do not modify or disassemble the drone or its components.
- Avoid prolonged exposure to direct sunlight or extreme temperatures.
- This device is not suitable for children under 14 years of age without adult supervision.

## Maintenance

### Care and Storage

- Clean the drone with a soft, dry cloth.
- Store the drone and its accessories in a cool, dry place away from direct sunlight.
- Fully charge batteries before long-term storage.
- Regularly check propellers for wear and tear and replace if necessary.

## Troubleshooting

### Common Issues and Solutions

| Problem | Possible Cause | Solution |
|---|---|---|
| Drone not responding to remote | Not paired, low battery | Re-pair drone and remote, ensure batteries are charged. |
| Unstable flight | Not calibrated, damaged propellers | Perform horizontal calibration, replace damaged propellers. |
| No FPV feed in app | Wi-Fi not connected, app issue | Reconnect to drone's Wi-Fi, update app to the latest version. |

## Specifications

### Technical Details

- Brand: RAGPIP
- Model Name: X66
- Video Capture Resolution: 1080p
- Connectivity Technology: Wi-Fi
- Skill Level: Beginner
- Battery Capacity: 1000 Milliamp Hours
- Flight Time: Up to 25 minutes (per battery)
- Control Type: App Control, Gesture Control
- Material: Plastic
- Product Dimensions: 11.2"L x 10"W x 2.3"H (Unfolded)
- Item Weight: 1.23 pounds
- Special Features: Optical Flow Positioning Camera, 1080P FPV Image & Video, 90° Electric Adjustable Camera, Gesture Selfie, Waypoint Fly, 360° Flips, Multiple Functions, Long Battery Life

## Warranty and Support

RAGPIP offers 24-hour technical support, quality guarantee, and money-back service. Please contact us if you encounter any issues.

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