

MJX X401H

MJX X401H FPV Quadcopter Drone User Manual

Model: X401H

1. INTRODUCTION

Welcome to the MJX X401H FPV Quadcopter Drone User Manual. This guide provides detailed instructions for the safe operation, assembly, maintenance, and troubleshooting of your new drone. Please read this manual thoroughly before operating the drone to ensure proper function and to prevent damage or injury.

Safety Warning: Always operate the drone in open areas, away from people, animals, and obstacles. Ensure all components are correctly assembled and batteries are fully charged before each flight. Adult supervision is recommended for younger users.

2. PRODUCT OVERVIEW

2.1 Key Features

- **Altitude-Hold Technology:** Integrated air pressure sensor for stable hovering, making it easier to capture high-quality photos and videos.
- **FPV Real-Time Transmission:** Experience first-person view flight by streaming live video directly to your mobile device via Wi-Fi.
- **Easy to Fly:** Equipped with One Key Return and Headless Security System for simplified control, suitable for beginners.
- **One Key Take-off and Landing:** Simplifies the most challenging parts of flight with a single button press.
- **3D Flip and Roll:** Perform impressive aerial stunts with ease.
- **Left and Right Hand Switch Mode:** Adaptable control scheme for various pilot preferences.

2.2 Package Contents

Ensure all the following items are included in your package:

- 1x MJX X401H Drone
- 1x C4005 FPV Camera
- 1x Transmitter (Remote Control)
- 1x Mobile Phone Holder
- 1x 7.4V 350mAh Li-Po Battery

- 4x Spare Propellers
- 1x Micro USB Charging Cable
- 1x Screwdriver
- 1x User Manual (English)

Gravity Control Mode

Control and view by mobile device for ios & Android system

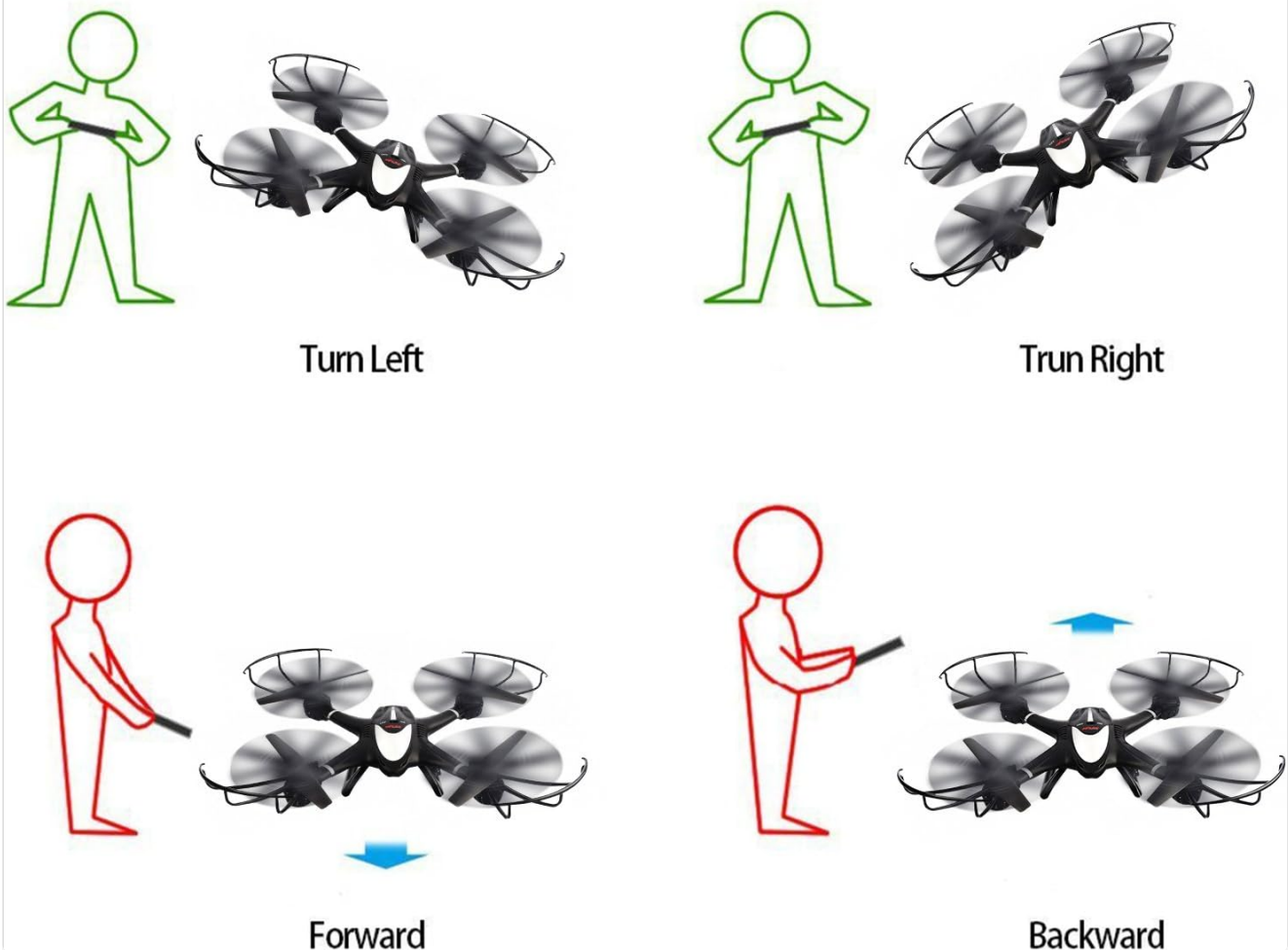


Figure 2.2.1: MJX X401H Drone and its included accessories, including the remote control, battery, spare propellers, and charging cable. The image also indicates the drone's approximate dimensions of 31 inches by 31 inches.

3. SETUP GUIDE

3.1 Drone Assembly

1. **Install Propellers:** Carefully attach the propellers to the motor shafts. Ensure the correct propeller (A or B) is installed on the corresponding motor as indicated in the drone's manual or markings. Secure them with the provided tiny screws using the screwdriver. Be careful not to lose the screws.
2. **Install Propeller Guards:** Attach the propeller guards to the drone's arms for added protection.
3. **Install Landing Skids:** Secure the landing skids to the bottom of the drone.
4. **Install Camera and Mobile Phone Holder:** Attach the C4005 FPV camera to the designated slot on the drone. Mount the mobile phone holder onto the transmitter.

3.2 Battery Charging and Installation

1. **Charge Drone Battery:** Connect the 7.4V 350mAh Li-Po battery to the Micro USB charging cable. Connect the USB cable to a USB power source (e.g., computer USB port or a USB wall adapter). The charging indicator light will show the charging status. A full charge typically takes 60-90 minutes. Do not overcharge.
2. **Install Drone Battery:** Once charged, carefully insert the battery into the battery compartment on the drone. Ensure it is securely connected and the compartment cover is closed.
3. **Install Transmitter Batteries:** Open the battery compartment on the back of the transmitter. Insert 4x AA batteries (not included) according to the polarity markings. Close the compartment.

4. OPERATING INSTRUCTIONS

4.1 Pairing the Drone and Transmitter

1. Place the drone on a flat, level surface.
2. Turn on the drone's power switch. The indicator lights will flash.
3. Turn on the transmitter. The transmitter's indicator light will flash.
4. Push the left throttle stick (vertical) all the way up, then all the way down. The drone and transmitter lights will become solid, indicating successful pairing.

4.2 FPV App Connection (Real-Time Transmission)

Real-time Transmission

See what your drone see on your mobile device



Figure 4.2.1: Illustration of the FPV (First Person View) real-time transmission feature, showing a smartphone mounted on the controller displaying the drone's live camera feed.

1. Download the "MJX H" or "MJX FPV" app from your mobile device's app store (iOS or Android).
2. Turn on the drone and the transmitter.
3. On your mobile device, go to Wi-Fi settings and connect to the Wi-Fi network named "MJX_XXXXXX" (the specific name will be on the drone or in its packaging).
4. Open the MJX app. You should see the live video feed from the drone's camera.
5. You can now control the drone via the physical remote and view the FPV feed on your phone. Note: Some models may require switching between FPV mode and control mode within the app, meaning you cannot always have both simultaneously.

4.3 Basic Flight Controls

Familiarize yourself with the transmitter controls:

- **Left Stick (Throttle/Yaw):**
 - Push up/down: Increase/decrease altitude (Throttle).

- Push left/right: Rotate drone left/right (Yaw).
- **Right Stick (Forward/Backward/Left/Right):**
 - Push up/down: Move drone forward/backward.
 - Push left/right: Move drone left/right (Strafe).

4.4 Special Functions

4.4.1 Altitude Hold

Altitude Hold

Lock the height automatically Take sharper Photos/Videos



Figure 4.4.1: Visual representation of the Altitude Hold feature, where the drone automatically maintains a set height, indicated by a lock icon.

The drone automatically maintains its altitude once the throttle stick is released to the center position. This allows for more stable flight and easier photo/video capture.

4.4.2 Headless Mode

Headless Mode

*Enter headless mode to control the flight
when you miss the direction*



Figure 4.4.2: Depiction of Headless Mode, where the drone's orientation is relative to the pilot, simplifying control regardless of the drone's front direction.

Press the Headless Mode button on the transmitter. In Headless Mode, the drone's forward direction will always be the direction the pilot is facing when Headless Mode was activated, regardless of the drone's actual orientation. This simplifies control for beginners.

4.4.3 One Key Return



Figure 4.4.3: Illustration of the One Key Return function, showing the drone automatically flying back towards the take-off point after a button press.

Press the One Key Return button. The drone will automatically fly back towards its take-off point. Ensure there are no obstacles in its return path. This function works best when the drone is within a reasonable range and has a clear signal.

4.4.4 3D Flip and Roll

360° 3D Flip and Roll



Figure 4.4.4: Dynamic image showing the drone executing a 360-degree 3D Flip and Roll maneuver in the sky.

To perform a 3D flip, fly the drone to a height of at least 3 meters (10 feet). Press the 3D Flip button (usually a dedicated button or a combination of stick presses). Then, quickly push the right control stick in the direction you want the drone to flip (forward, backward, left, or right). The drone will perform a 360-degree flip.

4.4.5 Gravity Control Mode (via App)

One key return



Figure 4.4.5: Illustrates the Gravity Control Mode, where the drone's movement (turn left, turn right, forward, backward) is controlled by tilting the connected mobile device.

Within the MJX FPV app, you can activate Gravity Control Mode. This allows you to control the drone's movement by tilting your mobile device. Tilt forward to move forward, tilt backward to move backward, and tilt left/right to turn left/right. Ensure you are in a safe, open area when using this mode.

4.5 Taking Off and Landing

- **One Key Take-off:** After pairing, press the One Key Take-off button. The drone will automatically ascend to a stable hovering height.
- **Manual Take-off:** After pairing, push both control sticks to the bottom-outer corners simultaneously to arm the motors. Then, slowly push the left throttle stick up to ascend.
- **One Key Landing:** Press the One Key Landing button. The drone will automatically descend and land gently.
- **Manual Landing:** Slowly pull the left throttle stick down until the drone lands. Once landed, hold the throttle stick down for a few seconds until the propellers stop spinning.

5. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the drone and transmitter. Do not use water or chemical cleaners.
- **Propeller Inspection and Replacement:** Regularly check propellers for damage (cracks, bends). Replace any damaged propellers immediately using the spare propellers provided. Ensure correct A/B propeller placement.
- **Battery Care:**
 - Do not overcharge or over-discharge the Li-Po battery.
 - Store batteries in a cool, dry place, away from direct sunlight and heat.
 - If storing for extended periods, charge the battery to about 50% capacity.
- **Storage:** When not in use, store the drone and its components in a safe, dry place, away from extreme temperatures and direct sunlight.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone does not respond to transmitter.	Not paired; low battery (drone or transmitter); out of range.	Re-pair drone and transmitter. Charge drone battery. Replace transmitter batteries. Fly within operational range.
Drone flies erratically or drifts.	Propellers damaged or incorrectly installed; motors damaged; calibration needed.	Check and replace damaged propellers. Ensure correct A/B propeller installation. Perform gyroscope calibration (refer to specific transmitter instructions for calibration sequence).
FPV feed is choppy or not connecting.	Weak Wi-Fi signal; too far from drone; app issues.	Ensure mobile device is close to the drone. Reconnect to the drone's Wi-Fi network. Restart the app and drone. Ensure no other Wi-Fi interference.
Drone crashes or loses control unexpectedly.	Interference (e.g., cell towers, power lines); low battery; critical component failure.	Fly in open areas away from potential interference. Ensure battery is fully charged. If issues persist, contact customer support.
One Key Return does not work as expected.	Drone too far; strong wind; signal interference.	Ensure drone is within optimal range. Avoid flying in strong winds. Maintain clear line of sight.

7. SPECIFICATIONS

Feature	Detail
Brand	MJX
Model Name	X401H
Color	Black
Material	Plastic
Item Weight	1.71 pounds (approx. 0.77 kg)

Feature	Detail
Product Dimensions	16.1 x 12.1 x 3.2 inches (approx. 40.9 x 30.7 x 8.1 cm)
Battery	7.4V 350mAh Li-Po (included)
Video Capture Resolution	1080p, 720p
Connectivity Technology	Wi-Fi (for FPV)
Remote Control Technology	2.4GHz
Skill Level	Beginner
Age Range (Description)	Adult

8. WARRANTY AND SUPPORT

MJX provides customer support for their products. For any issues not covered in this manual, or for warranty inquiries, please contact MJX customer service directly. Refer to the product packaging or the official MJX website for the most current contact information.

Please retain your proof of purchase for warranty claims.

