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› OYDL YUXIANG F08 Bell 206 RC Helicopter Instruction Manual

## OYDL F08 Bell 206

# OYDL YUXIANG F08 Bell 206 RC Helicopter Instruction Manual

Model: F08 Bell 206

## INTRODUCTION

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This manual provides essential information for the safe operation, maintenance, and troubleshooting of your OYDL YUXIANG F08 Bell 206 RC Helicopter. Please read it thoroughly before operating the device to ensure optimal performance and safety.

The F08 Bell 206 is a 1:27 scale remote-controlled helicopter designed for enthusiasts, featuring advanced flight stability and control. It incorporates a 6-axis gyroscope, optical flow positioning, and a brushless motor for a smooth and responsive flying experience.

## PRODUCT FEATURES

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- **Scale Model Design:** Based on the iconic Bell 206 helicopter, this 1:27 scale model features highly detailed, realistic aesthetics and cool lighting effects.
- **Optical Flow Positioning:** High-precision optical flow positioning and barometer altitude hold function enable accurate indoor and outdoor flight, making it easier for beginners to control.
- **6-Axis Gyroscope:** Equipped with a 6-axis gyro for stable, quick, and precise flight posture, ideal for new pilots.
- **Flybarless Design:** Features a flybarless design with a dual-axis driven motor system and an electronic stabilization system for enhanced flight stability and precise control.
- **One-Key Inverted Flight:** An intuitive one-key inverted flight feature simplifies mastering advanced maneuvers.
- **Durable Construction:** Made from a durable nylon + carbon fiber composite, the blades are high-strength, impact-resistant, and long-lasting.
- **Brushless Motor:** Powered by a 2511 1200KV brushless motor, offering low noise, high torque, and exceptional efficiency. High-temperature-resistant magnetic steel ensures durability up to 150°C.
- **Long Flight Time:** The professional 7.4V 1200mAh 25C Li-Po battery provides 10-12 minutes of flight time with over 500 charge cycles.

## WHAT'S IN THE BOX

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Your OYDL YUXIANG F08 Bell 206 RC Helicopter package includes:

- 1 x Aircraft (F08 Bell 206 RC Helicopter)
- 1 x User Manual
- 1 x Specialized USB Charging Cable
- 4 x Main Propeller Blades (Spare)
- 1 x Tail Propeller Blade (Spare)
- 1 x Smart Battery (7.4V 1200mAh 25C Li-Po)
- 1 x Remote Control (Transmitter)

SIX-AXIS GYROSCOPE

# 6-axis gyro self-stabilization suitable for beginners to fly

Stable, fast, accurate flight attitude.



**BI-DIRECTIONAL FEEDBACK**  
**LOW BATTERY ALARM**

Image: Contents of the YUXIANG F08 Bell 206 RC Helicopter box, showing the helicopter, remote control, battery, and accessories.

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## SETUP GUIDE

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### 1. Battery Installation and Charging

1. Ensure the helicopter and remote control are powered off.
2. Insert the 7.4V 1200mAh 25C Li-Po smart battery into the helicopter's battery compartment. Ensure it clicks securely into place.
3. Connect the specialized USB charging cable to the battery and a suitable USB power source (e.g., computer, USB wall adapter). The charging time is approximately 60-70 minutes.
4. Install batteries into the remote control as per its specific instructions (typically AA batteries, not included).

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Video: Demonstrates the battery installation and power-on sequence for the YUXIANG F08 Bell 206 RC Helicopter.

### 2. Pairing the Remote Control

1. Place the helicopter on a flat, stable surface.
2. Turn on the helicopter's power switch. The lights on the helicopter will flash slowly.
3. Turn on the remote control. The remote's indicator light will flash.
4. Push the left joystick (throttle) all the way up, then all the way down. The remote control will beep, and the helicopter's lights will turn solid, indicating successful pairing.

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Video: Instructions on how to switch the remote control from right-hand throttle to left-hand throttle.

### 3. Pre-Flight Checks

- Ensure all propellers are securely attached and free from damage.
- Verify the battery is fully charged in both the helicopter and the remote control.
- Check that the flight area is clear of obstacles, people, and animals.
- For outdoor flights, avoid windy conditions.

## OPERATING INSTRUCTIONS

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### 1. Basic Flight Controls

The F08 Bell 206 features a 6-channel remote control. Familiarize yourself with the joystick functions:

- **Left Joystick (Throttle):** Controls altitude (up/down).
- **Right Joystick (Directional):** Controls forward/backward, left/right movement.
- **Trimmer Buttons:** Used to fine-tune stability if the helicopter drifts.



Image: Diagram illustrating the basic flight controls and corresponding helicopter movements (Upwards, Downwards, Left Flight, Right Flight, Turn Left, Turn Right, Onward, Backwards).

## 2. Take-off and Landing

- **Take-off:** After successful pairing, slowly push the left joystick (throttle) upwards to lift off. Alternatively, use the one-key take-off button if available on your remote.
- **Landing:** Slowly pull the left joystick (throttle) downwards to descend. For a controlled landing, use the one-key landing button if available.

<b>Name</b>	<b>F08 (Bell206 Six-channel Intelligent Aileronless Simulation Helicopter)</b>
<b>Remote Control Mode</b>	<b>2.4G Remote Control</b>
<b>Remote control distance (m)</b>	<b>Greater than 120 meters</b>
<b>Unit weight (kgs)</b>	<b>228G</b>
<b>Product Material</b>	<b>High-strength composite materials</b>
<b>Age Appropriate</b>	<b>14+</b>
<b>Body Battery</b>	<b>LI-POLY Smart Battery 7.4V(1200MAH)25C</b>
<b>Charging Time</b>	<b>About 70 Minutes.</b>
<b>Usage Time</b>	<b>11-13 Minutes</b>
<b>Color</b>	<b>Reddish-Black</b>
<b>Replacement</b>	<b>Flyer *1, Manual *1, Special USB Charger *1, Main Blade *4 Tail Blade *1 Smart Battery *1</b>

Image: Illustration of the one-click descent feature, showing the helicopter landing on a helipad with a remote control.

## 3. Advanced Flight Modes

- **Optical Flow Positioning:** This feature helps maintain stable hovering, especially in indoor environments or areas with clear ground patterns.
- **One-Key Inverted Flight:** Press the designated button on your remote control to initiate inverted flight. Practice this in an open area until comfortable.



*Image: Depiction of the helicopter utilizing optical flow positioning for stable flight both indoors and outdoors.*

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*Video: Demonstrates the flight capabilities of the YUXIANG F08 Bell 206 RC Helicopter, including stable hovering and maneuvers.*

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*Video: Shows the F08 Bell 206 RC Helicopter performing various flight patterns and demonstrating its stability.*

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*Video: Outdoor flight demonstration of "The Silent Scout" helicopter, showcasing its performance in an open environment.*

## MAINTENANCE

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- **Propeller Inspection:** Regularly check main and tail propeller blades for any signs of damage (cracks, bends). Replace damaged blades immediately using the provided spares.
- **Battery Care:**
  - Do not overcharge or over-discharge the Li-Po battery.
  - Store batteries in a cool, dry place away from direct sunlight and extreme temperatures.
  - If the helicopter will not be used for an extended period, charge the battery to approximately 50% before storage.

- **Cleaning:** Use a soft, dry cloth to clean the helicopter body. Avoid using water or chemical cleaners.
- **Motor Longevity:** The brushless motor is designed for durability, but avoid prolonged high-stress operation to maximize its lifespan.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Helicopter does not respond to remote.	Not paired; low battery in helicopter or remote.	Ensure proper pairing sequence. Charge/replace batteries.
Helicopter drifts during flight.	Trimmer settings incorrect; windy conditions.	Adjust trimmer buttons on the remote. Fly in calm conditions.
Short flight time.	Battery not fully charged; aging battery.	Ensure full charge. Consider replacing the battery if performance degrades significantly.
Propellers not spinning.	Obstruction; motor issue; loose connection.	Check for obstructions. Ensure battery is connected. Contact support if motor issue persists.

## SPECIFICATIONS

Feature	Detail
Model	F08 Bell 206
Product Dimensions	15.3 x 14.7 x 4.8 inches (approx. 38.8 x 37.3 x 12.2 cm)
Item Weight	10.4 ounces (approx. 295 grams)
Scale	1:27
Channels	6CH
Flight Modes	6G/3D (6-axis gyro, 3D flight capable)
Motor Type	2511 1200KV Brushless Motor
Battery	7.4V 1200mAh 25C Li-Po Smart Battery
Flight Time	10-12 minutes
Charging Time	Approx. 60-70 minutes
Control Frequency	2.4Ghz
Recommended Age	15 years and up



4.3G  
Digital Servo



Modular  
Cell



Atmospheric  
Pressure Set High



## Product Information Sheet



Name	F08 (Bell206 Six-channel Intelligent Aileronless Simulation Helicopter)
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Product Material	High-strength composite materials
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Body Battery	LI-POLY Smart Battery 7.4V(1200MAH)25C
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Usage Time	11-13 Minutes
Color	Reddish-Black
Replacement	Flyer *1, Manual *1, Special USB Charger *1, Main Blade *4 Tail Blade *1 Smart Battery *1

Image: A detailed product information sheet showing specifications and features of the F08 Bell 206 helicopter.

## SAFETY GUIDELINES

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Always prioritize safety when operating your RC helicopter. Failure to follow these guidelines may result in injury or damage to the product.

- Operate in open, clear areas away from people, animals, and obstacles.
- Do not fly near power lines, buildings, or roads.
- Avoid flying in strong winds or adverse weather conditions.
- Keep hands and face clear of rotating propellers.
- Adult supervision is recommended for users under 15 years of age.
- Do not modify the helicopter or its components.
- Ensure the battery is correctly installed and charged before each flight.

## WARRANTY AND SUPPORT

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For warranty information, technical support, or replacement parts, please contact OYDL customer service through the retailer where you purchased the product. Keep your purchase receipt as proof of purchase.

Additional protection plans may be available for purchase. Refer to your retailer for details.

- **2-Year Protection Plan:** Available for extended coverage.
- **3-Year Protection Plan:** Available for extended coverage.
- **Complete Protect:** A monthly plan covering eligible past and future purchases.