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> YUXIANG F07-V UH1D RC Helicopter Instruction Manual

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Model: F07-V UH1D | Brand: Actualia

1. INTRODUCTION

The YUXIANG F07-V UH1D is a 1/34 scale remote-controlled helicopter designed for both stable flight and aerobatic maneuvers. This model features a highly realistic UH-1 Huey design, equipped with advanced 3D/6G flight modes, brushless motors, and a 6-axis gyroscope for precise control. This manual provides essential information for the safe and effective operation, maintenance, and setup of your F07-V UH1D RC Helicopter.

2. SAFETY PRECAUTIONS

Operating an RC helicopter requires attention to safety. Please read and understand all instructions before use to prevent injury or damage.

- **Age Restriction:** This product is intended for users aged 16 years and older.
- **Environment:** Operate the helicopter in open, clear areas, away from people, animals, buildings, and power lines. Avoid flying in strong winds or adverse weather conditions.
- **Pre-Flight Check:** Always inspect the helicopter and remote controller for any damage or loose parts before each flight. Ensure batteries are fully charged.
- **Battery Safety:** Use only the specified charger and battery. Do not overcharge or short-circuit batteries. Store batteries in a safe, cool place away from flammable materials.
- **Rotor Blades:** Keep hands, face, and loose clothing away from rotating blades. Blades can cause serious injury.
- **Supervision:** Beginners should operate under the supervision of an experienced RC pilot.
- **Emergency Stop:** Familiarize yourself with the emergency stop procedure on your remote controller.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1 × F07-V UH1D RC Helicopter
- 1 × 2.4GHz Remote Controller
- Battery (quantity as per purchase variant, e.g., 2 × 7.4V 1200mAh 25C LiPo Battery for this variant)
- 1 × Charger (Type-C USB)
- 1 × User Manual

4. PRODUCT OVERVIEW

The F07-V UH1D RC Helicopter is a detailed 1/34 scale model of the UH-1 Huey. It features a robust design for stable and precise flight.



Image: The YUXIANG F07-V UH1D RC Helicopter, showcasing its detailed military design and scale accuracy.

UH1D-HUEY

Precision Durable Stable



Image: Side view of the UH1D-Huey, highlighting its precision, durable construction, and stable design.

5. SETUP

5.1 Battery Charging

The helicopter uses a 7.4V 1200mAh 25C LiPo smart battery. Use the provided Type-C USB charger.

1. Connect the Type-C USB charger to a suitable USB power source (e.g., computer USB port, USB wall adapter).
2. Connect the battery to the charger. Ensure correct polarity.
3. The charger's indicator light will show charging status (refer to charger manual for specific light indications).
4. Once charging is complete, disconnect the battery. The smart battery includes overcharge and discharge protection.

5.2 Remote Controller Preparation

The 2.4GHz remote controller requires its own batteries (not included, typically AA batteries). Install them according to the polarity markings in the battery compartment.

- Power on the remote controller.
- The LCD display will show current settings. Use the digital tuning functions to adjust controls as needed.
- Ensure the remote controller is bound to the helicopter. This usually happens automatically upon powering on both devices. If not, refer to the remote controller's specific binding instructions.

5.3 Helicopter Preparation

Before flight, ensure the main rotor blades and tail rotor are securely attached and free from damage. Power on the helicopter by connecting the charged battery. Place the helicopter on a flat, level surface for initial calibration.

6. OPERATING INSTRUCTIONS

6.1 Flight Modes

The F07-V UH1D offers two primary flight modes:

- **6G (Stabilized) Mode:** Ideal for beginners, this mode utilizes the 6-axis gyroscope to provide enhanced stability, making the helicopter easier to control and maintain a level flight attitude.
- **3D (Aerobatic) Mode:** For experienced pilots, this mode allows for advanced aerobatic maneuvers. The helicopter responds directly to control inputs, enabling flips, rolls, and inverted flight.



Image: The F07-V UH1D helicopter demonstrating a 3D flight maneuver, showcasing its aerobatic capabilities.

6.2 Controls and Stability

The helicopter's control system, featuring a 6-axis gyroscope and oversized 4.3g metal gear servos, ensures precise and responsive flight. The remote controller allows for digital adjustment of various parameters.



Image: The F07-V UH1D helicopter, illustrating the role of its 6-axis gyroscope for stable and accurate flight.

6.3 First Flight Tips

- Always start in 6G (stabilized) mode for initial flights.
- Perform a gentle take-off, slowly increasing throttle.
- Practice hovering at a low altitude before attempting forward flight or turns.
- Be mindful of battery life; land the helicopter before the battery is fully depleted to prevent sudden power loss. Flight time is approximately 9-12 minutes per charge.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your F07-V UH1D helicopter.

7.1 Body and Rotor Care

The helicopter's body is constructed from impact-resistant nylon and carbon fiber composite, offering durability and toughness. The CNC machined metal rotor head and swashplate are designed for precision and reduced damage risk.

- After each flight, inspect the fuselage, rotor blades, and tail rotor for any cracks, bends, or loose connections.
- Clean the helicopter with a soft, dry cloth. Avoid using solvents or harsh chemicals.
- Ensure all screws and fasteners are tight.

SHATTERPROOF BODY

The paddle is made of nylon + carbon fiber composite material with high strength, good toughness, impact resistance, no deformation, and durability.



Image: The F07-V UH1D helicopter, highlighting its shatterproof body made from nylon and carbon fiber composite for durability.

AERODYNAMIC DESIGN

The propeller is designed according to aerodynamic principles, providing strong power and self-stabilization with high efficiency, power saving and long flight time.

The propeller blade is made of nylon + carbon fiber composite material, high strength and good toughness, impact resistance, no deformation and durability.



Image: The F07-V UH1D helicopter, illustrating its aerodynamic design for efficient and stable flight.

7.2 Motor and Battery Care

The helicopter is equipped with a 2511 1200KV brushless main motor and a 1204 5500KV brushless tail motor.

- Keep motors free from dust and debris.
- Allow motors to cool down between flights, especially after intensive use.
- For batteries, store them at approximately 50% charge if not used for extended periods. Avoid fully discharging or fully charging for long-term storage.



Image: A detailed view of the 2511 1200KV brushless motor, emphasizing its high-temperature resistance and durability.

8. TROUBLESHOOTING

If you encounter issues with your F07-V UH1D helicopter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Helicopter does not power on	Battery not charged or connected; power switch off	Charge battery fully; ensure battery is securely connected; turn on power switch.
Loss of control or erratic flight	Interference; remote controller battery low; helicopter damage	Fly in an open area away from interference; replace remote controller batteries; inspect helicopter for damage.

Problem	Possible Cause	Solution
Short flight time	Battery not fully charged; aging battery; aggressive flying	Ensure battery is fully charged; consider replacing old batteries; practice smoother flight.
Unstable hovering	Improper calibration; damaged rotor blades; strong wind	Ensure helicopter is placed on a level surface for power-on; check and replace damaged blades; avoid flying in windy conditions.

If problems persist, please contact customer support.

9. SPECIFICATIONS

Detailed specifications for the YUXIANG F07-V UH1D RC Helicopter:

Feature	Detail
Model	F07-V UH1D (Manufacturer Model Number: 146614KBZS)
Scale Ratio	34:1
Flight Modes	3D (Aerobatic) / 6G (Stabilized)
Main Motor	2511 1200KV Brushless Motor
Tail Motor	1204 5500KV Brushless Motor
Servo	4.3g Metal Gear Servo (High Torque, Fast Response)
Gyrosystem	6-Axis Gyro System
Control System	2.4GHz Remote Control (LCD Display, Digital Tuning, Simulator Support)
Receiver Compatibility	Futaba S-FHSS, DSMX / DSM2 / PPM / S-BUS
Battery	7.4V 1200mAh 25C LiPo (Smart Battery with Protection)
Flight Time	9-12 minutes per charge
Charging Method	Type-C USB Fast Charging
Body Material	Impact-resistant Nylon + Carbon Fiber Composite
Construction	CNC Machined Metal Rotor Head & Swashplate
Item Dimensions (L x W x H)	14.76 x 14.96 x 4.72 inches
Item Weight	228 Grams
Recommended Age	16 years and up

10. WARRANTY AND SUPPORT

For warranty information or technical support, please contact the seller, Actualia Toy, through your purchase platform. Keep your proof of purchase for any warranty claims.

For further assistance, you may also visit the [Actualia Store](#).

