Bell UH-1DX Helicopter RTF

#16400 | #16401

User manual

Introduction

This model is a 1:34 scale replica of the UH-1D helicopter. It features a highly realistic and detailed appearance, realistic lighting effects, and intelligent flight control. Equipped with an optical positioning module and altitude stabilization function, it is particularly suitable for beginners. It is powered by a brushless main motor and a coreless tail motor.

Safety instructions

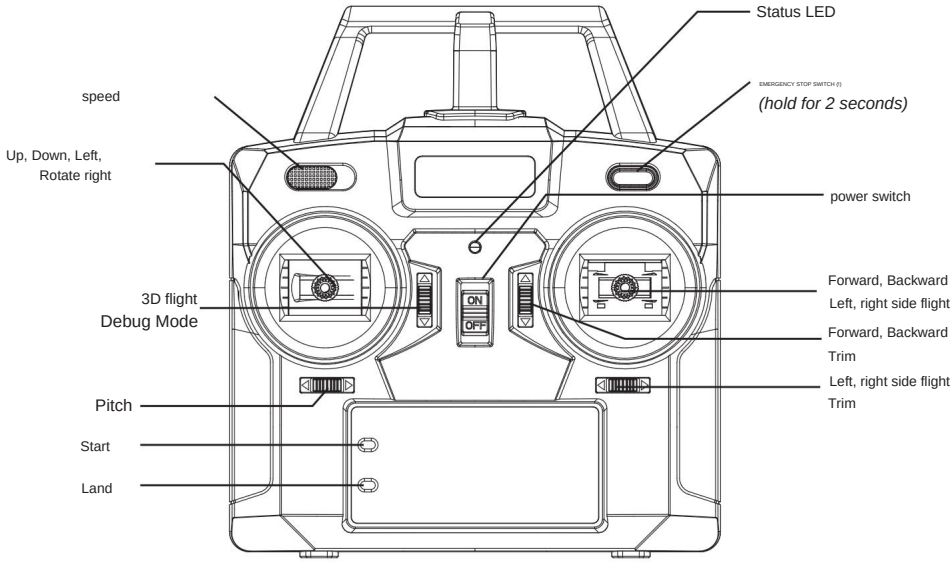
Please read these instructions before use. This helicopter is not a toy and is not suitable for children under 14 years of age. This model should only be flown in an open, unobstructed environment, away from spectators and animals. Rotating propellers can cause serious injury.

Keep your distance and protect your eyes. Always remove the battery from the helicopter after use and store it in a fireproof, cool, and dry place. Use only the included USB charging cable to charge the battery. Batteries must never be disassembled or exposed to heat or direct sunlight. Do not short-circuit batteries and always keep them out of reach of children. If swallowed, seek medical attention immediately.

Technical data:

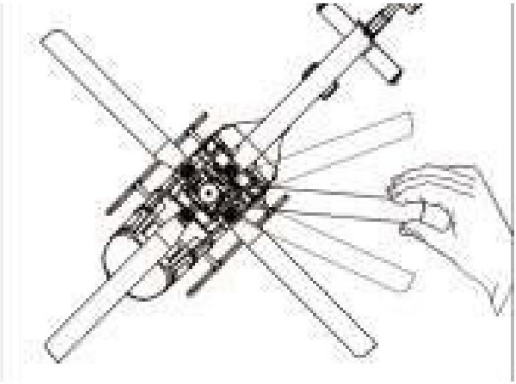
length	297 mm
Height	101 mm
Weight	165 g
propeller	315 mm
Battery	7.4V 350mAh
Flight time	approx. 13 min
Main engine	Brushless
Rear-mounted engine	Coreless
Loading time	approx. 80 min

Transmitter functions:



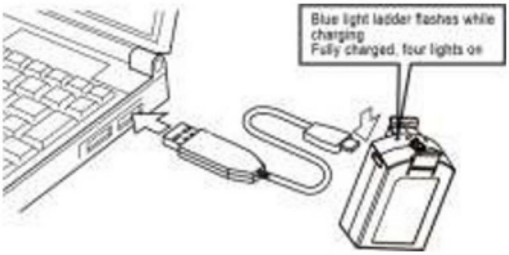
Before the first flight; preparation:

1. Make sure both the helicopter and controller are charged.
2. Only fly in suitable locations, with no traffic, people or animals.
3. Do not overtighten the rotor blades – they should move freely but still be secure sit.



Charging the battery:

The LiPo battery can be charged via the USB port of your computer.

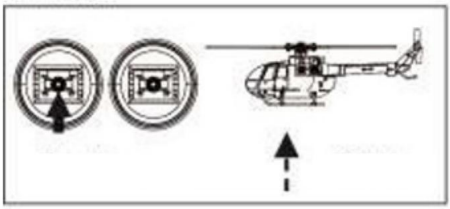


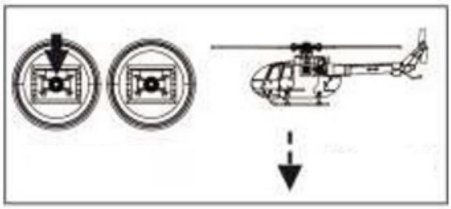
1. Plug the USB charging cable into the PC.
2. Connect LiPo battery to the charging cable, blue light flashes = charging.

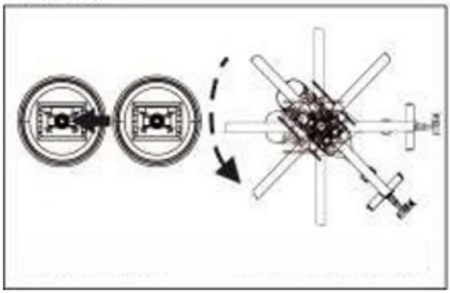
When four blue lights are continuously lit, charging is complete.

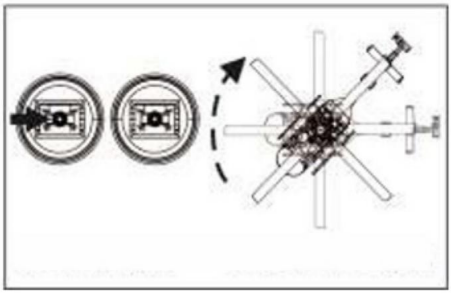
The charging cable can also be connected to a mobile phone power adapter or a power bank to charge the battery.

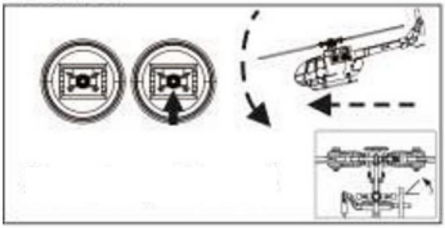
Steering:

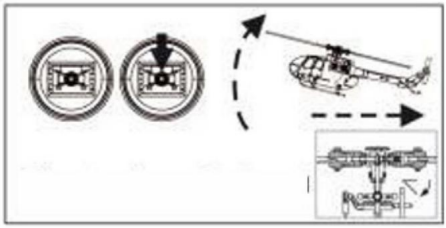


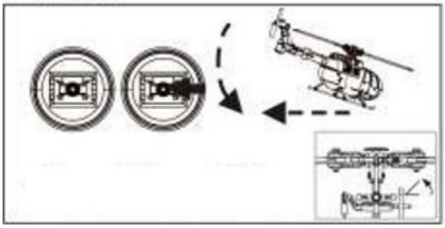


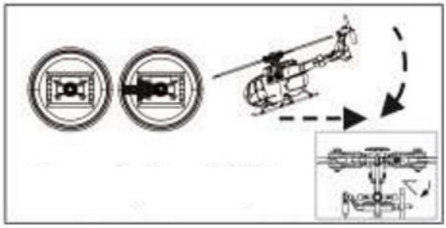




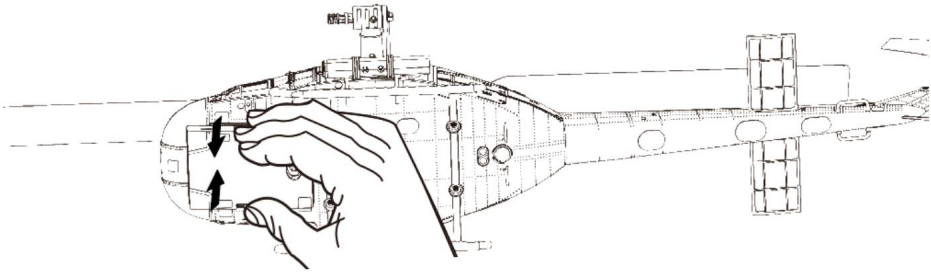




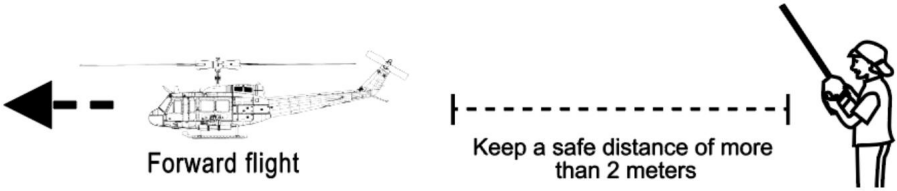




Battery installation:



Attention: Pay attention to the direction in which the battery is inserted.



Caution: Beginners must always keep an eye on the helicopter's flight direction. Always maintain an appropriate safety distance of approximately 2 meters.

Inverted flight:

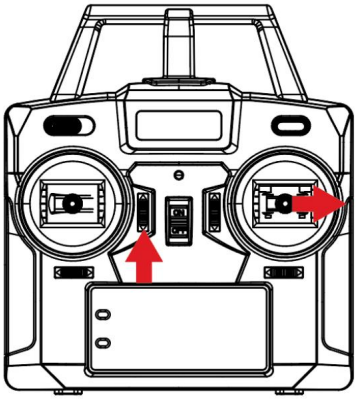
1. Fly the helicopter at an altitude of over 3 meters.

Set the helicopter on the transmitter to the highest 2.

Speed level (3)

3. Turn on 3D flight mode by pushing the corresponding switch up.

4. Push the control stick to the right, the helicopter will now lie on its back by itself.

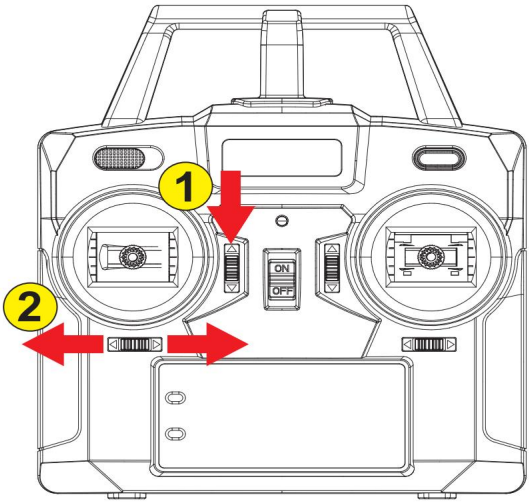


Yaw correction

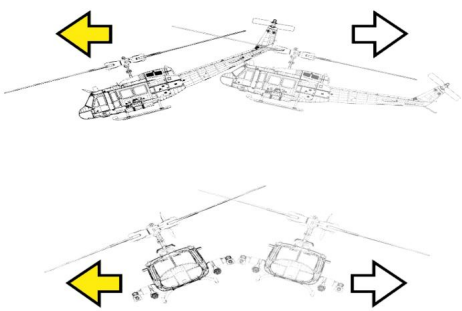
If the helicopter has yaw problems, you can compensate for them using the trims.

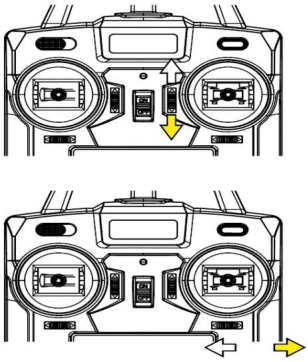
The helicopter should hover as quietly as possible. If it doesn't hold its position satisfactorily, you can adjust the trim switches to correct this.

If you notice that the helicopter is drifting to one side while hovering, you can correct it by using the trim buttons in the opposite direction.



1. Press the button for about 3 seconds to enter debug mode.
2. Here you can carefully correct the pitch of the helicopter 3.
Press the debug button again for about 3 seconds to save the settings.
4. For further yaw tuning see the following figure.





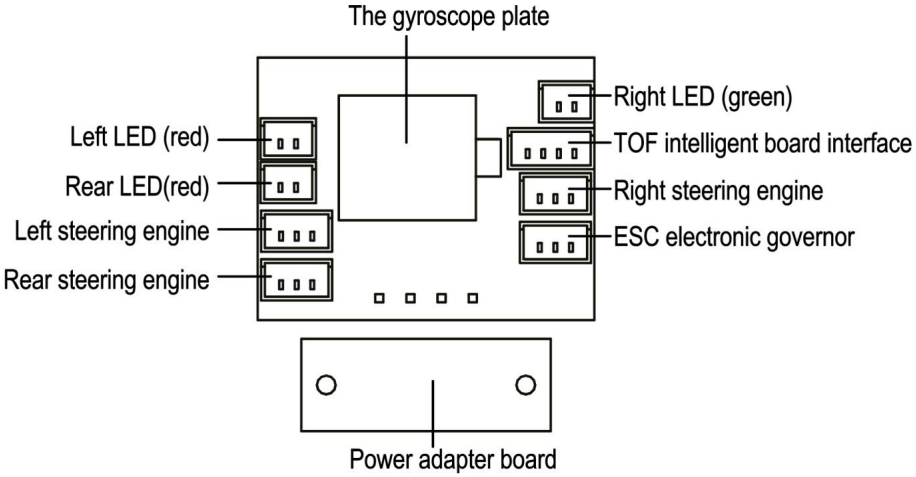
Calibrate gyro:

If your helicopter yaws erratically (spins around its vertical axis), land it first and then calibrate the gyroscope.

Make sure the helicopter is on a level surface while calibrating the gyroscope.

The indicator light will flash rapidly during the calibration process. Once calibration is complete, the light will stop flashing, and you can take off.

Recipient Layout



Troubleshooting

problem	Possible cause	Solution
1. Helicopter switched on, tail light flashes, but no response to inputs.	The helicopter is not connected to the transmitter.	Rebind the transmitter to the helicopter.
2. Nothing happens after turning on the helicopter.	Power supply to the helicopter or transmitter interrupted; Low battery voltage; Poor battery contact.	Insert battery correctly; use fully charged batteries; check battery connection.
3. The throttle trigger is activated, but the motor does not run. The receive LED flashes.	The helicopter's battery has too little voltage; poor connection to the battery.	Charge the battery or insert a full battery; reconnect the battery.
4. After binding, the main rotor rotates, but the helicopter does not take off.	Helicopter battery is low.	Charge the battery or replace it with a fully charged one; reinstall the propeller and make it run smoothly.
5. The helicopter shakes violently.	Main rotor or shaft is bent; tail rotor is damaged; rotor blade screws too tight, rotor cannot rotate.	Replace main rotor; replace shaft; change tail rotor; loosen rotor blade screws.
6. The helicopter turns to the left after takeoff.	Rear motor has insufficient power; rotor blades loose; rear motor defective.	Check the connection between the tail rotor and the motor; if loose, replace the tail rotor or the motor.
7. The helicopter rotates slightly (slight yaw).	Gyroscope needs to be recalibrated; fine adjustment is necessary.	1. Press the trim button in the opposite direction; 2. Reset the hover state.
8. The helicopter has a strong yaw motion.	Aileron servo defective; linkage has come loose.	Check servo function; check swashplate; check linkage connections.

Declaration of conformity

Pichler Modellbau hereby declares that this device complies with the essential requirements and other relevant provisions of the relevant EU directives. The declaration of conformity can be downloaded from the respective product page on our website.

Note on battery disposal.

Defective batteries are hazardous waste and must not be disposed of with household waste. Battery recycling bins are available at the retailer where you purchased the batteries. You can also find such bins in supermarkets. Retailers are obligated to take back batteries.

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