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WWW.FORCE1RC.COM

HALO3000

2-SPEED LED STUNT DRONE

USER MANUAL



LED Lights | Headless Mode | Altitude Hold | 360° Flips | 1-Key Lift/Land | 2.4Ghz Transmitter | 2 Speed

FOR MORE INFORMATION

Visit us online at **force1rc.com** for product information, replacement parts and flight tutorials.

ATTENTION:
PLEASE WATCH THIS FLIGHT INSTRUCTION VIDEO BEFORE FLYING YOUR DRONE.

https://youtu.be/tk3qzsUwoWs

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WELCOME!

Welcome to the Force1 Team, and thank you for your Force1 drone purchase. Please read this manual carefully before drone operation.

(1) This drone is not a toy! It's a pro-level drone suitable for experienced RC drone users aged 14 years and older. You accept all liability for operation.

(3) The flying field must be legally approved by your local government.

Any questions? We'd love to hear from you! Please contact us at support@force1rc.com any time and we'll be happy to help.

***Please use only original Force1 parts and accessories.**
***Please keep the packaging and this user manual for future reference.**

SAFETY PRECAUTIONS

This drone is suitable for experienced RC drone operators aged 14 years and older. It contains small parts, and should be kept out of reach of small children.

Please follow these safety procedures:

(1) Flight Zone
This drone does not require FAA registration or permitting, but FAA rules still apply. Please download the B4UFLY mobile app for the most up-to-date zoning info, and heed all local government ordinances.

(2) Avoid Moisture
Humidity and water can damage your drone, which in turn may cause accidents.

(3) Fly Safely
Please operate your drone as your skill level allows. User fatigue, impairment and improper operation can cause accidents.

(4) Avoid Moving Parts & Hot Motors
Do not touch propellers, motors or other moving parts while your drone is on.

(5) Avoid Heat
Keep your drone away from heat and prolonged exposure to direct sunlight to avoid damage.

LI-PO BATTERY CARE

Avoid Overheating
Your batteries will sometimes be warm/hot to the touch after use. This is normal, but beware that battery components will fail if not allowed to cool down between uses. Also, do not leave batteries exposed to direct sunlight.

Store Properly
Store batteries at room temperature, between 5C°/40°F and 27°C/80°F.

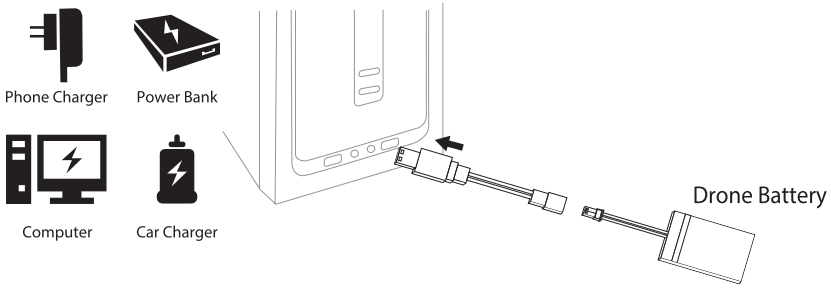
Use Carefully
- Leave time between charging and using the battery
- To extend the lifetime of the battery, always keep about 20% of the power remaining in the drone battery (rather than completely draining it)
- If the battery is pushed beyond its limits, the battery could get hot and the performance will drop
- When using the battery for a long time, the battery will increase in temperature. If it is sealed, the air inside will inflate rapidly causing further heating

Charging
- DO NOT overcharge the battery; never charge batteries unattended, and stop charging as soon as your batteries indicate they are charged
- DO NOT attempt to charge batteries that appear damaged in any way (cracking, swelling, discoloration, etc.)
- If you feel a battery isn't charging properly, try using another charger if possible. If you find your battery or charger is defective, please visit force1rc.com for a replacement, or email us at support@force1rc.com
- To inspect a battery, remove it from the device and examine the battery, battery pins and contacts. If you notice damage, please visit force1rc.com for a replacement, or email us at support@force1rc.com
- Check your battery and connections after every crash
- Please use genuine factory parts and replacements from force1rc.com

WARNING:
DO NOT LEAVE BATTERY CHARGING UNSUPERVISED

DRONE BATTERY CHARGING

1. First, attach your USB cable to the drone battery, then connect it to your preferred charging source.
2. When the battery is charging, the USB indicator light will be off. When the battery is fully charged, the USB indicator light will appear. The battery charging time is around 70-85 minutes.





LI-PO BATTERY DISPOSAL & RECYCLING

Do not put lithium-polymer batteries in household trash. Please contact your local waste management agency or LI-PO battery recycling center for more info.



WARNING:

DO NOT LEAVE BATTERY CHARGING UNSUPERVISED

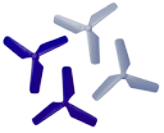
BOX CONTENTS



DRONE



TRANSMITTER



PROPELLERS (4)

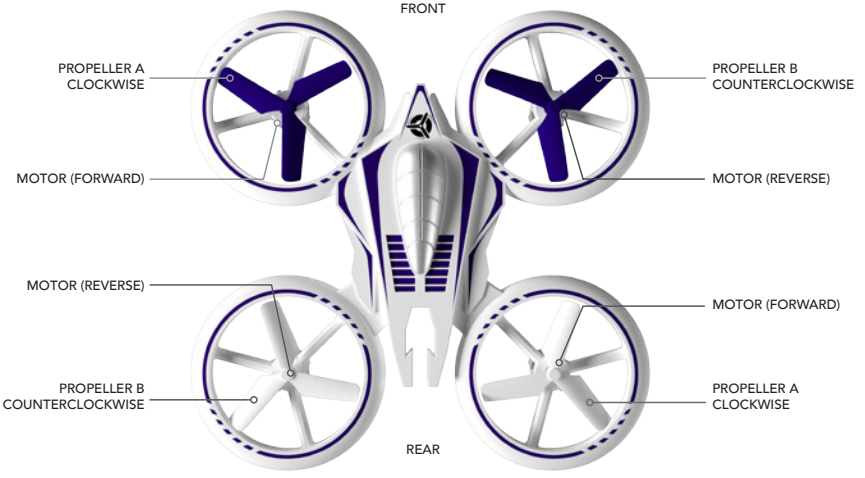


3.7v LITHIUM BATTERY (2)

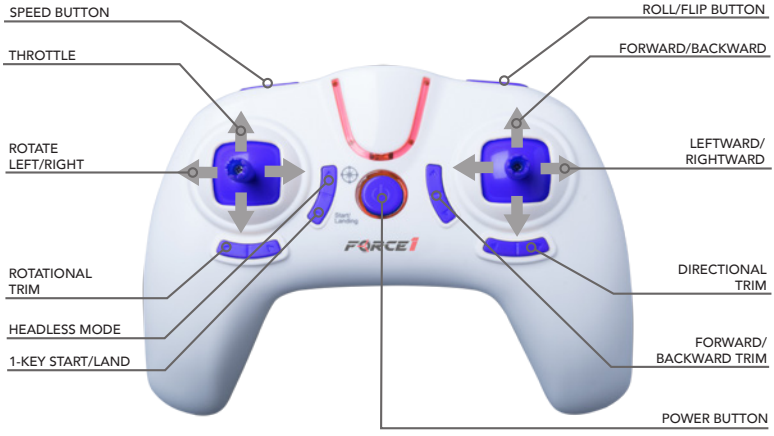


USB CHARGER

DRONE OVERVIEW

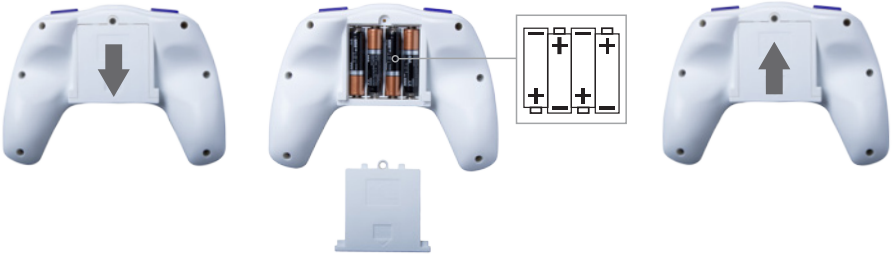


TRANSMITTER OVERVIEW



TRANSMITTER BATTERY INSTALLATION

Open the battery cover and insert 4 AAA batteries as shown below (not included).



CAUTION:

- The transmitter needs 4 AAA batteries to work
- Insert batteries in correct polarity (+) and (-)
- Don't mix old and new batteries
- Don't mix alkaline, standard (carbon-zinc) and rechargeable (nickel-cadmium) batteries
- Remove rechargeable batteries before charging
- Only charge batteries under adult supervision
- Remove spent batteries from the transmitter

DRONE ASSEMBLY

BATTERY INSTALLATION

1. Open the battery cover by sliding the cover over and lifting up (Fig. 1).
2. Connect the wire of the 3.7v lithium battery to the receiver wire in the power port (Fig. 2).
3. Replace the battery cover, and move the power switch to the "ON" position.

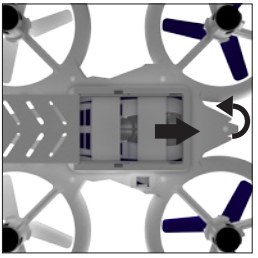


FIGURE 1

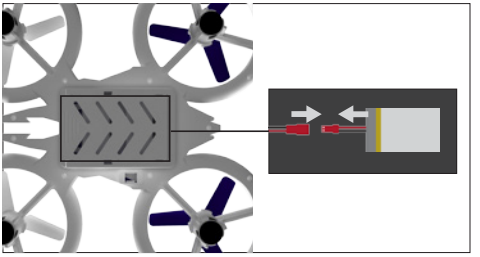


FIGURE 2

CAUTION:

Install the battery firmly; failure to do so may affect flight safety.

BATTERY REMOVAL

Make sure the drone power switch is in the "OFF" position. Open the battery cover (Fig. 1) and disconnect the wire of the battery from the receiver wire.

DRONE ASSEMBLY

PROPELLER INSTALLATION/REMOVAL

- To remove propeller, lift upwards on propeller until in snaps off (Fig. 3)
- The replacement propeller should have the same rotational direction; place on the correct motor pin, and apply pressure until it snaps into place (Fig. 4)

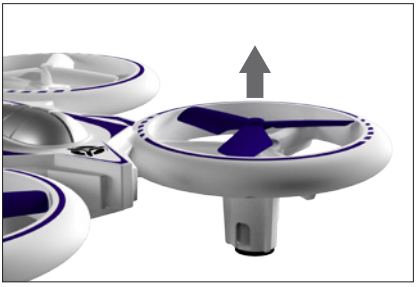


FIGURE 3

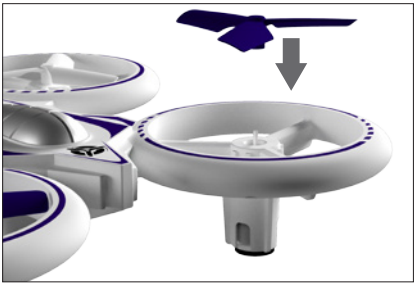


FIGURE 4

NOTE

- Be sure to install the correct propellers matching A and B (Fig. 5)
- Purchase extra propellers at force1rc.com



FIGURE 5

PREFLIGHT OPERATION

PAIRING WITH DRONE

1. Insert the drone battery.
2. Turn on the drone and place it on a flat surface; drone lights will flash quickly.
3. Make sure the left stick is in the center position.
4. Turn on the transmitter; it will beep twice (Fig. 6).
5. Push the left stick all the way up then all the way down. The transmitter will beep again (Fig. 7).
6. The drone lights will switch from flashing to solid indicating that the drone and transmitter are successfully paired.



FIGURE 6



FIGURE 7

PREFLIGHT CHECKLIST

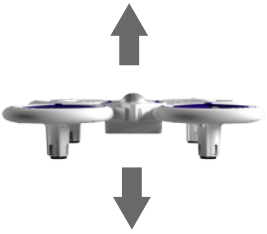
1. Fly in an open area and abide by all local and federal guidelines. Check the FAA's B4UFLY mobile app for up-to-date drone flight info.
2. Make sure your drone and transmitter batteries are fully charged.
3. Put the left stick of the transmitter in the middle position.
4. Always turn ON your transmitter first before flying, and turn OFF the drone first when you're finished.
5. Make sure the connection is solid between your battery and motor; vibration may cause loosening.
6. Make sure the propellers are installed correctly and the motors are working normally after unlocking.

FLIGHT CONTROLS

HOVER UP AND DOWN

Push the **THROTTLE/RUDDER STICK** up to fly the drone up, and pull the **THROTTLE/RUDDER STICK** down to fly the drone down.





FLY FORWARD OR BACKWARD

Push the **DIRECTION CONTROL STICK** up to fly the drone forward, and pull the **DIRECTION CONTROL STICK** down to fly the drone backward.





FLY LEFT OR RIGHT

Move the **DIRECTION CONTROL STICK** to the left to fly the drone to the left, and move the **DIRECTION CONTROL STICK** to the right to fly the drone to the right.





ROTATE LEFT OR RIGHT

Move the **THROTTLE/RUDDER STICK** to the left to rotate the drone to the left, and move the **THROTTLE/RUDDER STICK** to the right to rotate the drone to the right.





TRIM ADJUSTMENTS

If your drone drifts in an unwanted direction, try adjusting the trim as shown below.

FORWARD/BACKWARD TRIM

Adjust the **FORWARD/BACKWARD TRIMMER** backwards if the drone drifts forward when taking off, and adjust the **FORWARD/BACKWARD TRIMMER** forwards if drone drifts backwards. In Mode 1, the FORWARD/BACKWARD TRIMMER is on the left side.





LEFT/RIGHT TRIM

Adjust the **LEFT/RIGHT FLYING TRIMMER** to the right if the drone drifts to the left when taking off, and adjust the **LEFT/RIGHT FLYING TRIMMER** to the left if drone drifts to the right.





LEFT OR RIGHT ROTATION TRIM

Adjust the **LEFT/RIGHT RUDDER TRIMMER** to the right if the drone rotates to the left when taking off, and adjust the **LEFT/RIGHT RUDDER TRIMMER** to the left if drone rotates to the right.





FUNCTIONS

360° FLIP/ROLL

CAUTION:

Only execute rolls when you have plenty of airspace. The drone can only perform flips when it is at least 7 feet in the air.

Front/Back Flip

Press the Flip/Roll button to flip the drone. The transmitter will beep, indicating the drone is in Flip/Roll Mode. Next, move the right stick up or down then let it return to center (Fig. 8).

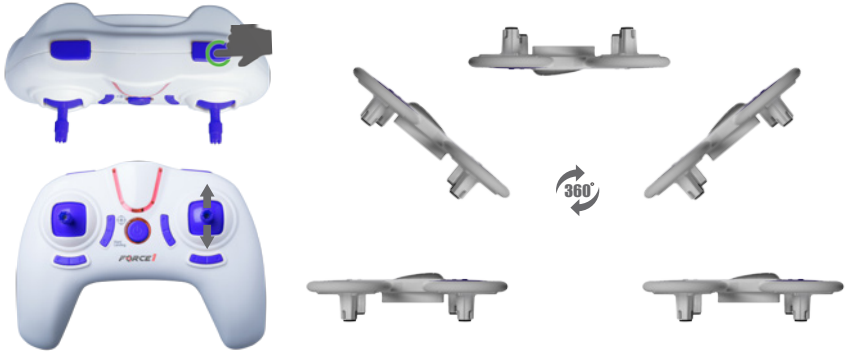


FIGURE 8

Roll

Press the Flip/Roll button to roll the drone. The transmitter will beep, indicating the drone is in Flip/Roll Mode. Next, move the right stick left or right then let it return to center (Fig. 9).

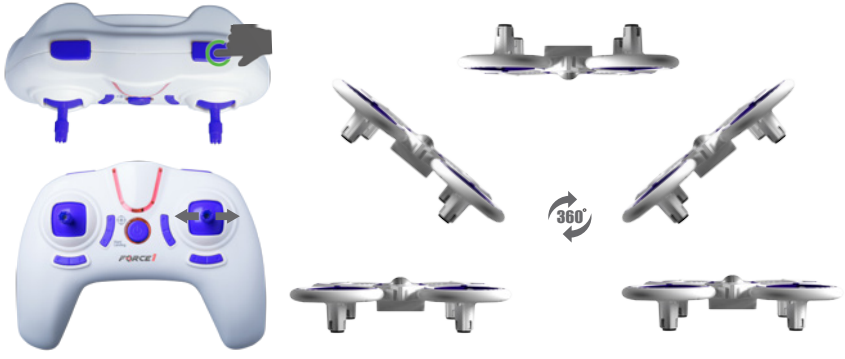


FIGURE 9

FUNCTIONS

1-KEY START

Place the drone on a flat surface. Press the 1-Key Start/Land Button (Fig. 10) – the drone propellers will start spinning, and it is ready to fly. Push the left stick up to fly the drone upwards.



FIGURE 10

1-KEY LAND

Press the 1-Key Start/Land button while the drone is aloft to land it (Fig. 10).

HEADLESS MODE

Headless Mode allows you to fly your drone without knowing its orientation, because it will be fixed in the direction you set it. Press the Headless Mode button to enter Headless Mode before takeoff (Fig. 11). Your transmitter will beep continuously and the drone lights will begin to flash to indicate mode selection. You must now set the Headless Mode drone direction.



FIGURE 11

Setting Headless Mode Drone Direction

You must verify your drone's flight direction before entering Headless Mode:

- Be sure your drone is facing away from you (Fig. 12)
- Press the Headless Mode button again to set the direction
- Drone lights will stop flashing and then stay on, and the transmitter will stop beeping to indicate the direction is verified

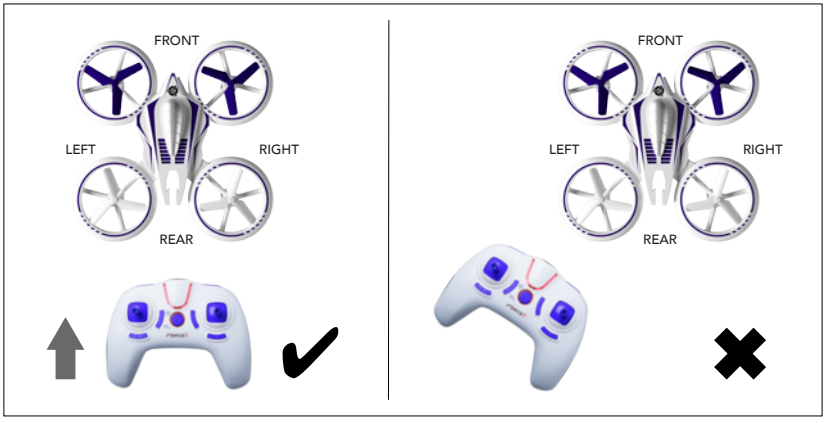


FIGURE 12

NOTE:

Do not change the transmitter orientation after entering Headless Mode. Otherwise, you will lose track of the set orientation (i.e., that you and your transmitter are facing "forward").

FUNCTIONS

ALTITUDE HOLD MODE

Altitude Hold Mode indicates the drone maintains a consistent altitude while allowing roll, pitch and yaw to be controlled normally. It makes it easier to control the drone for beginners.

Push the THROTTLE/RUDDER STICK up/down to fly the drone up/down at certain altitude and then release the stick. The stick will return to the center position (Altitude Hold Center) as shown in Figure 13 and the drone will keep flying at its current altitude. Repeat the above steps if you want to change the drone altitude (default mode).

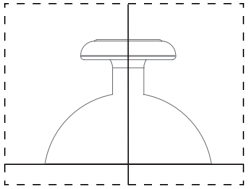


FIGURE 13

NOTE:

Altitude Hold Mode can't be used when the blades are deformed or damaged. Also, the drone may be unbalanced within one minute of flying due to temperature variation. This will cause it to slowly ascend or descend. When this happens, correct the drone's elevation using the throttle stick.

SPEED MODES

The HALO3000 has two speed modes: Low and High. To switch speed modes, press the Speed Mode button (Fig. 14). The transmitter will beep twice to indicate that it is in High Speed Mode, or once for Low Speed Mode. The speed mode may be changed during flight.



FIGURE 14

LOW BATTERY WARNING

Your drone's lights will flash and the transmitter will beep in midflight when the battery is low. This means you have 30 seconds to land your drone before you lose power.

TROUBLESHOOTING GUIDE

Problem	Cause	Solution
The LED indicator on the drone flashes continuously after connecting the battery; there is no response from the transmitter.	The transmitter and drone are not paired.	Refer to pg. 10 to pair again.
The drone is not responding.	1. The drone and/or transmitter are switched off. 2. The batteries in the drone and/or transmitter are dead. 3. The batteries are not inserted properly.	1. Turn on the transmitter and drone, and ensure that the battery is inserted properly. 2. Charge the batteries; use fully charged batteries. 3. Insert the battery again and ensure that the terminals are connected properly.
The motor does not respond to the throttle lever and the LED indicator on the drone flashes.	The drone battery level is too low.	Charge the battery or replace it with a fully charged battery.
The tail blades do not turn.	The blade is too close to the motor.	Pull the blade upwards so that it is not too close to the motor.
The blades spin but the drone does not take off.	1. The blades are damaged. 2. The drone battery level is too low.	1. Replace the damaged blade(s). 2. Charge the battery or replace it with a fully charged battery.
The drone shakes or tilts sideways during flight.	The blades are damaged.	Replace the damaged blade(s).
The drone continues to spin after making trim adjustments or the left/right yaw speed is not consistent.	1. The blades are damaged. 2. The motor is damaged.	1. Replace the damaged blade(s). 2. Replace the damaged motor(s).
The drone keeps drifting in one direction.	The gyroscope is not calibrated properly.	Make trim adjustments to the drone after turning it on (pg. 12).

SPARE PARTS

			
Upper Cover 001	Lower Cover 002	Propellers (A/B) 003	Battery Cover 004
			
Forward Motor 005	Reverse Motor 006	Lithium Battery 007	Circuit Board 008
			
Blue LED 009	Green LED 010	USB Charger 011	

FCC INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide residential protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Try using a different electrical outlet
- Consult the dealer or an experienced technician for help

FCC WARNING

The equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. Modifications not authorized by the manufacturer may void user's authority to operate this device.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. The device does not cause harmful interference, and
2. The device accepts interference, including interference that may cause undesired operation.

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