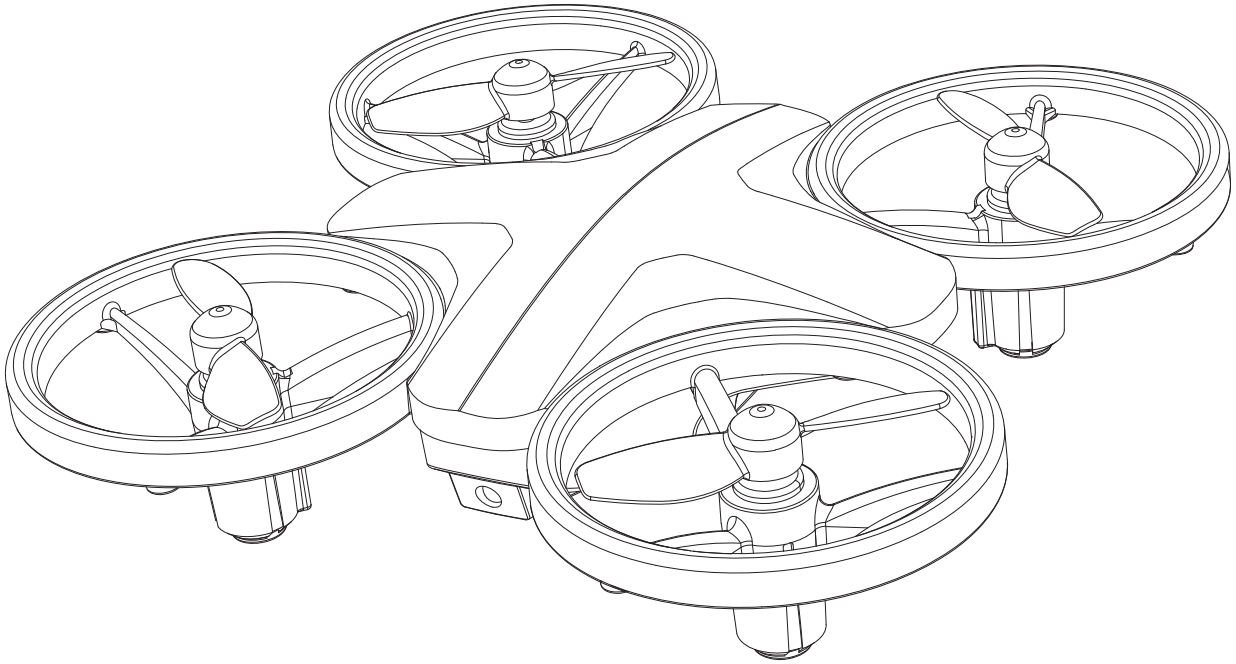
HS180

User Manual | V 1.0

取扱説明書



+1(833)766-4733

www.holystone.com

usa@holystone.com (USA)

ca@holystone.com (CA)

eu@holystone.com (EU)

jp@holystone.com(JP)

EN ---------- 01-30

JP ---------- 31-61

CONTENTS

1 Product Profile

01 Package Contents
02 Diagram of the Drone
03 Diagram of the Transmitter

2 Operation Guide

06 Battery Preparation
08 Pre-Flight Preparations
10 Pre-Flight Checklist
11 Flight

3 Drone Functions

15 Flight Functions
24 Attitude Adjustment
27 Stabilization Functions

4 Appendix

28 Specifications
29 Contact Us
30 Troubleshooting

Reading Guidance

Icon

“ ⚠ ” essential precautions. “ 💡 ” tips for operation and usage.

Recommended Steps

Our product offers both tutorial videos and the following resources:

- Disclaimer and Safety Guidelines
- Quick Start Guide
- User Manual

For a smooth start, we suggest watching the tutorial videos and reviewing the "Safety Guidelines & Specifications" first. Then, familiarize yourself with the basics through the "Quick Start Guide". For a comprehensive understanding, delve into the "User Manual".

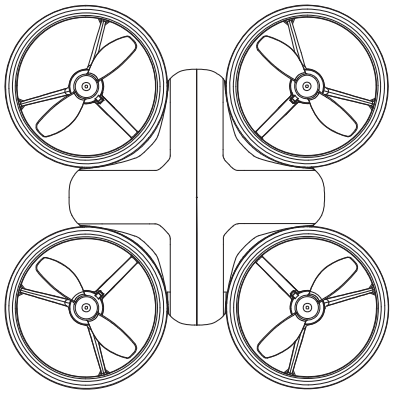
Access Tutorial Videos

To ensure you're using the product safely and correctly, scan the QR code below to view our tutorial videos.

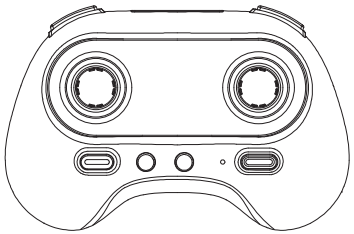
We are committed to continuously improving user experience and reserve the right to update products. This manual may be revised without prior notice. Scan the QR code to access the latest version. In case of discrepancies between digital and printed editions, the electronic version shall prevail.

1.1 Package Contents >>

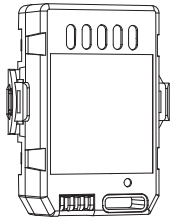
1



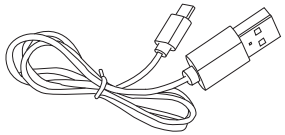
2



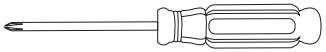
3



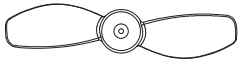
4



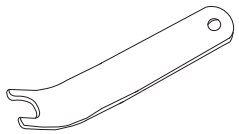
5



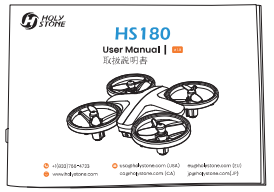
6



7



8



1 Drone

2 Transmitter

3 Drone Battery

4 USB Charging Cable

5 Screwdriver

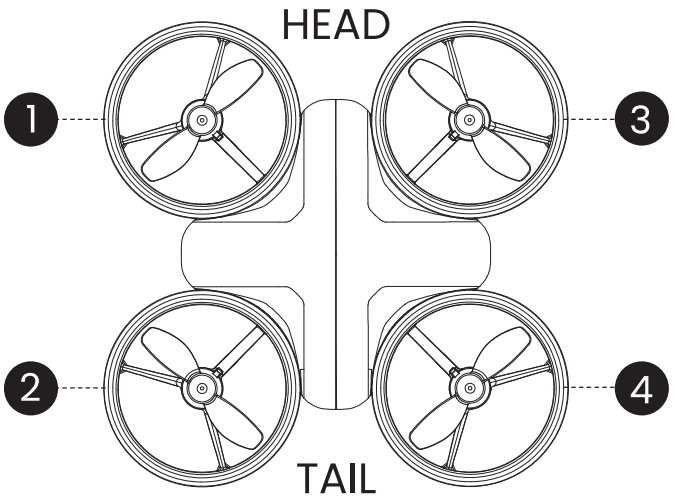
6 Propeller

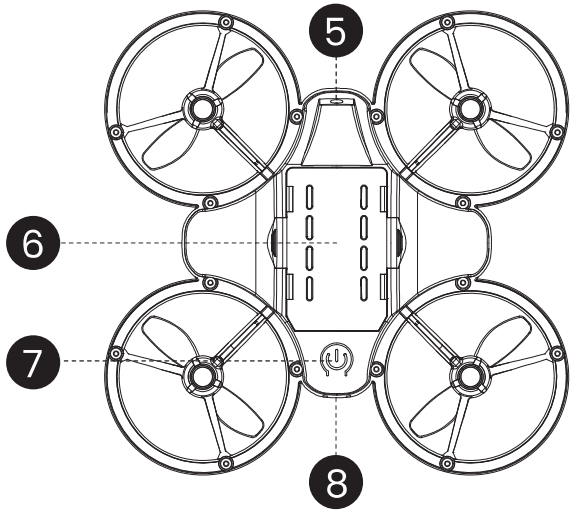
7 Propeller Spanner

8 User Manual

1.2 Diagram of the Drone

Drone



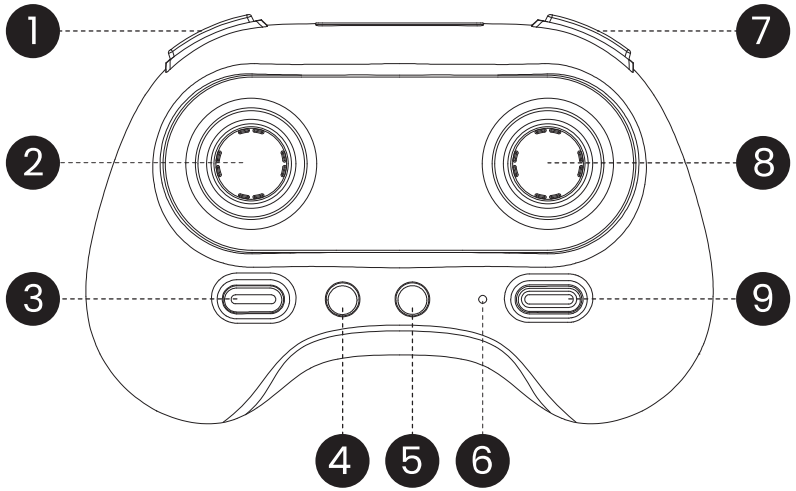


1 Propeller A
2 Propeller B
3 Propeller B
4 Propeller A
5 Front Indicator light
6 Drone Battery
7 Power Switch
8 Rear Indicator light

Turning on/off: Long press the power switch (⏻) on the drone to turn it on/off.

1.3 Diagram of the Transmitter

The Transmitter

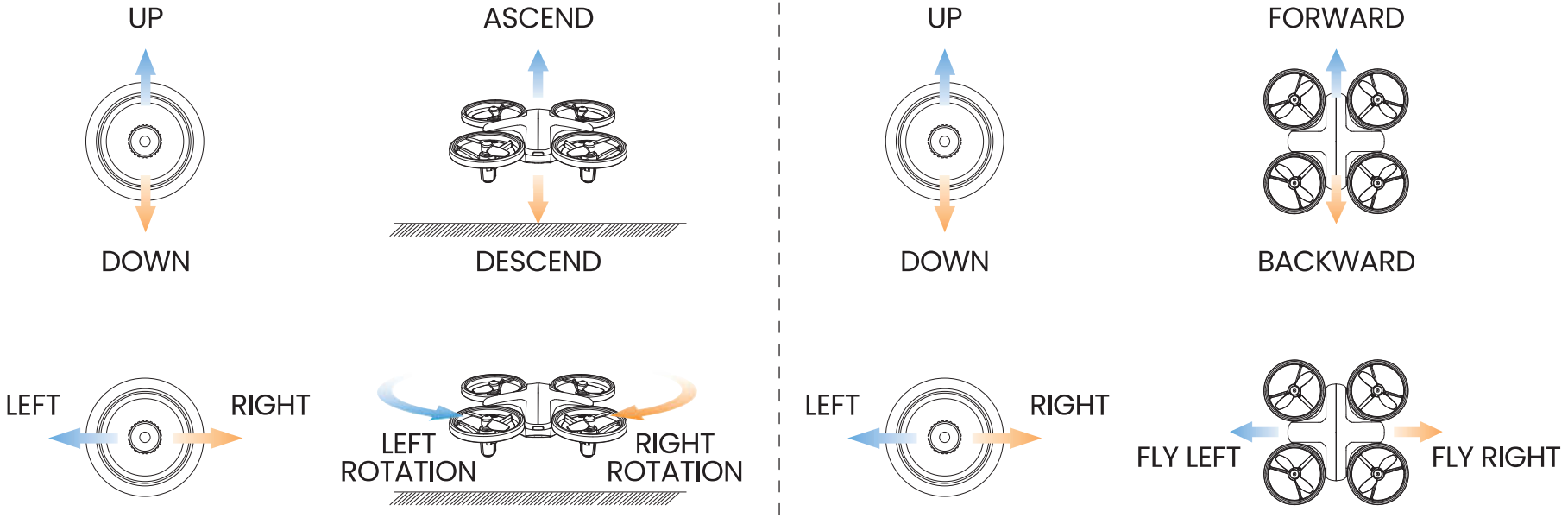


1. Speed Switch (Short press)
   Trimmer (Long press)
2. Left Joystick
3. One Key Start/ Takeoff/ Landing
4. Light Switch (Short press)
5. High-Speed Rotation (Short press)
   Circle Fly (Long press)
6. Power Indicator
7. 360°Flip (Short press)
   Headless Mode (Long press)
8. Right Joystick
9. Power Switch (Short press)

1.3 Diagram of the Transmitter

Joystick Mode

- **MODE 2** (The default setting.)

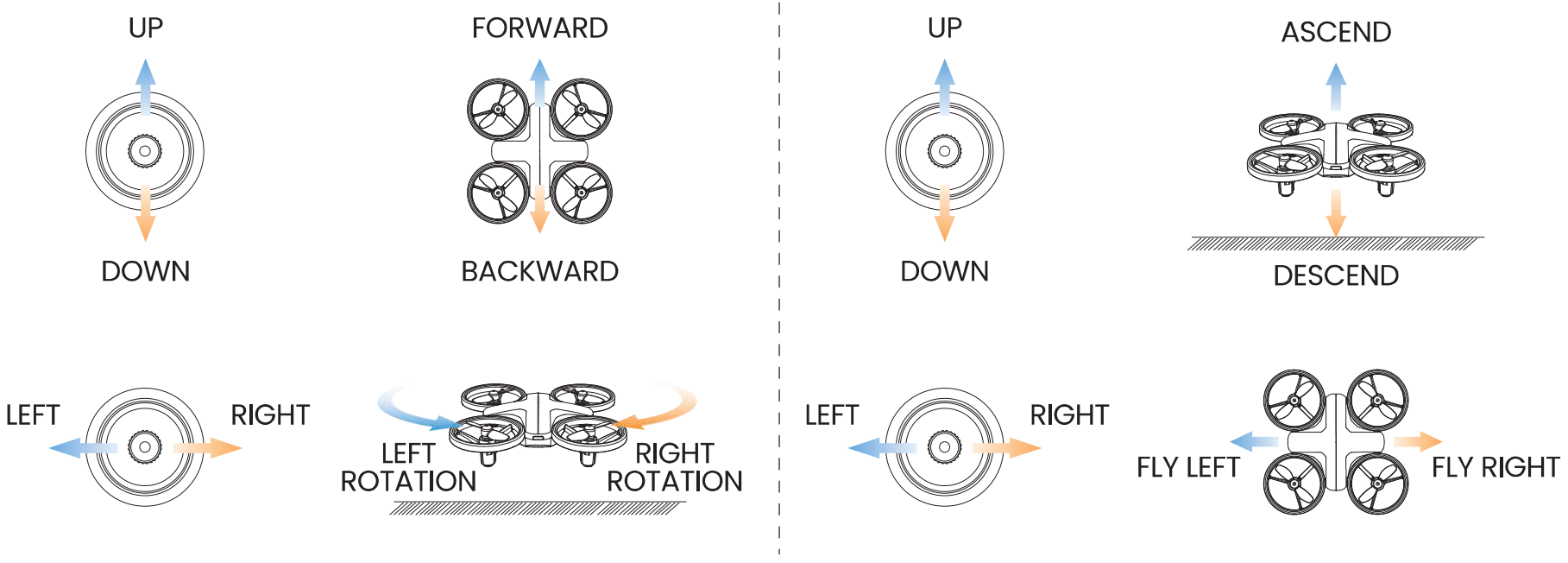


Left Joystick **Right Joystick**

1.3 Diagram of the Transmitter

Joystick Mode

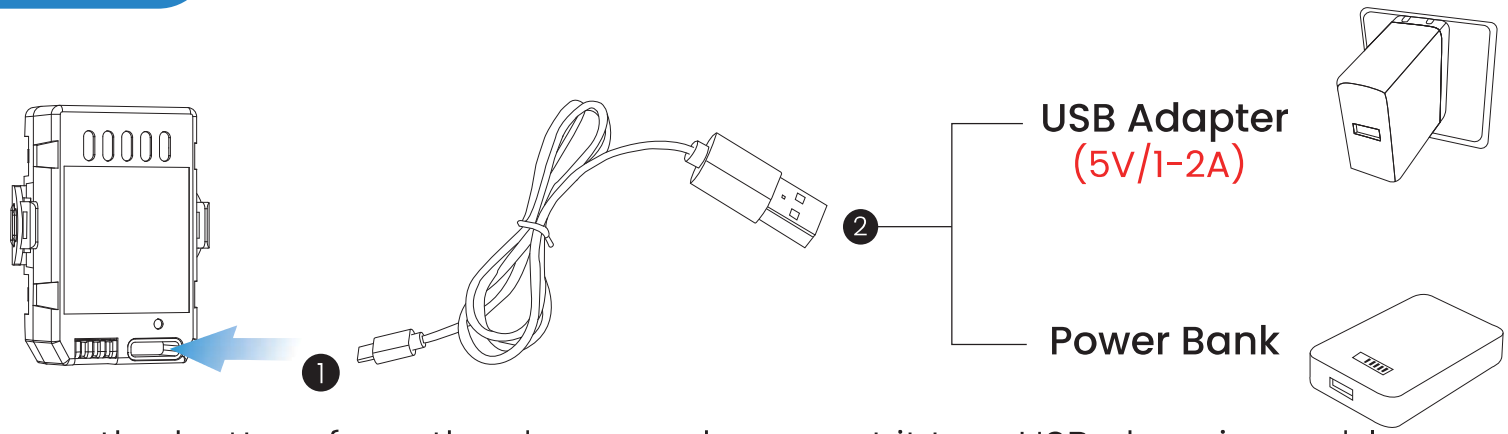
- **MODE 1 :** To enter MODE 1, turn on the transmitter while holding the button.
  (Please do not release the button until the transmitter is powered on.)



Left Joystick **Right Joystick**

2.1 Battery Preparation

Drone Battery

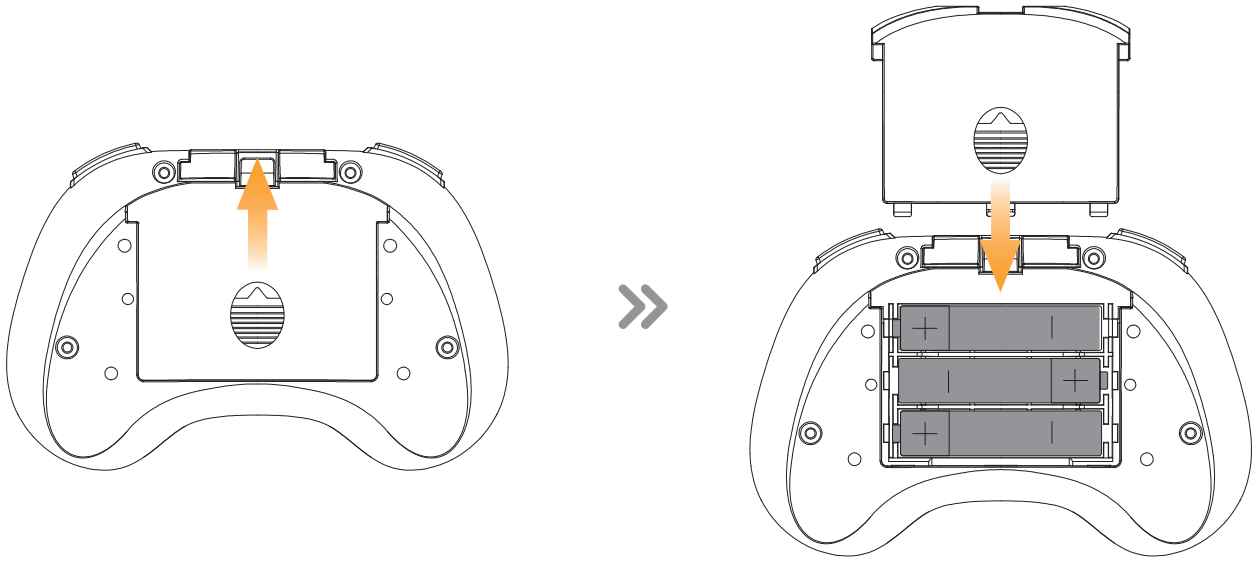


1. Remove the battery from the drone and connect it to a USB charging cable.
2. Plug the USB Charging Cable into a USB charging port on the power bank or USB adapter (5V/1-2A).
3. Charging time: about 60 minutes.
4. a. When the battery is charging, the indicator light on the battery is red.
   b. When the battery is fully charged, the indicator light on the battery will turn off.
   *** Low Battery Signal: The drone body will flash red in a double flashing pattern, and the transmitter will keep beeping.**

⚠ · Before charging, please read the instructions in the "Safety Guidelines" section of the "Safety Guidelines & Specifications" carefully!
· Please use the original charging cable to charge the battery.
· DO NOT charge a battery immediately after a flight as the temperature may be too high. Please wait until it cools down to room temperature before charging again.

2.1 Battery Preparation

Changing Transmitter Batteries



Open the battery cover on the back of the transmitter, insert the three AAA batteries (Not included) into the battery compartment. Then close the battery cover to complete the installation.

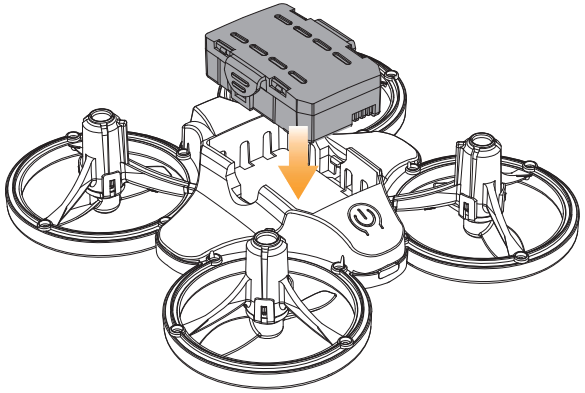
*** Low Battery Signal: The power indicator on the transmitter will flash quickly.**

- Install batteries carefully.
- Do not mix old and new batteries.
- Do not mix different types of batteries.

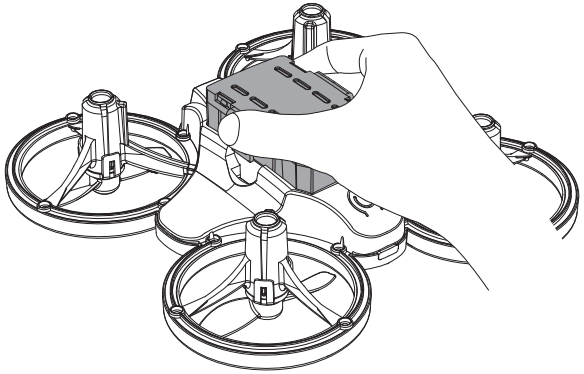
2.2 Pre-Flight Preparations

Drone Battery

- **Installation:** Insert the battery into the compartment located at the bottom of the drone. Make sure that you hear a click sound, which indicates that the battery is firmly installed.



- **Removal:** Press both side latches while pulling the battery out from the drone.



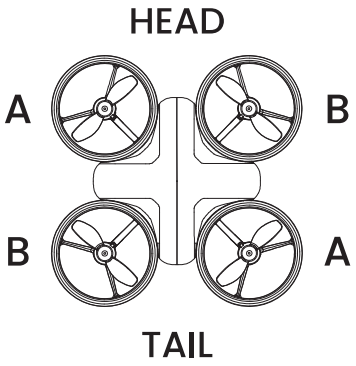
⚠ · The battery should be installed firmly. Otherwise, the flight safety of your drone may be affected. The drone may crash due to a power-cut during the flight.

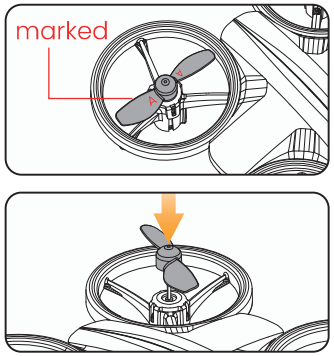
· Before installing the battery, please check if it has a detachable insulation pad/band. If yes, remove it.

2.2 Pre-Flight Preparations

Propellers

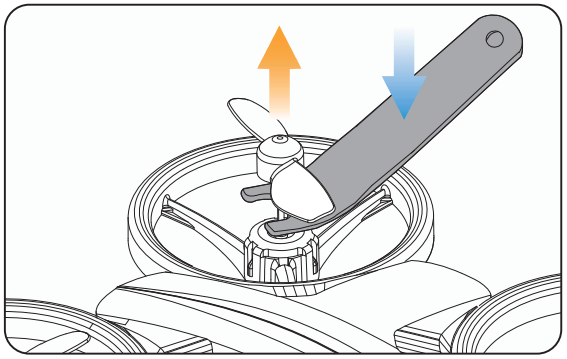
- **Installation:**





The drone will not fly unless the correct propeller is installed on the correct motor shaft. Each propeller is labeled with either an "A" or "B" on it. Install the propeller to the motor shaft and press into place.

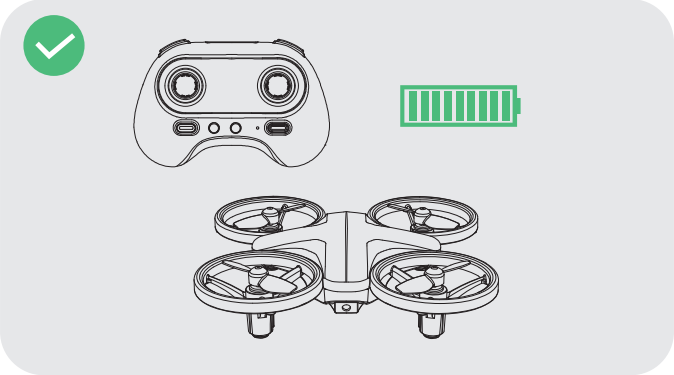
- **Removal:**



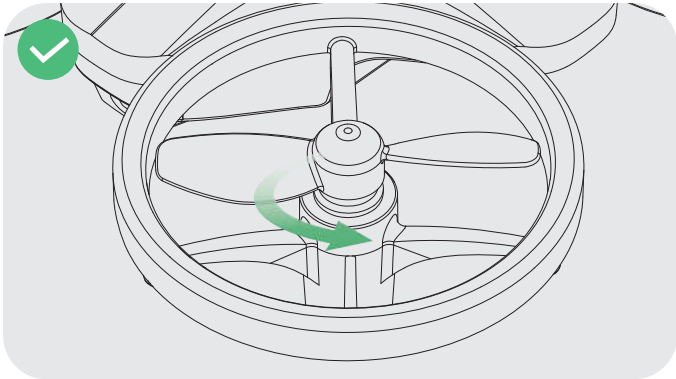
For propeller removal, insert the propeller spanner between the propeller and the motor. Be sure to hold the motor while detaching the propeller.

- The propellers are installed before the drone is packaged at the factory.
- Please check that the propellers are properly installed and tightened before each flight.
- Exercise caution when attaching/detaching the propellers to prevent any cuts or injuries.

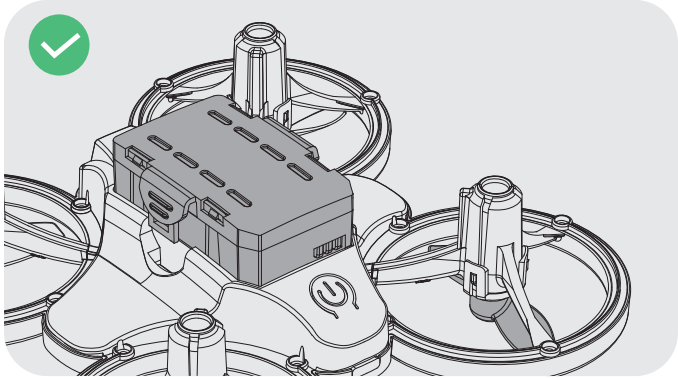
2.3 Pre-Flight Checklist



Make sure the transmitter and the drone battery are fully charged.



Make sure that there is nothing obstructing the motors.



Make sure the drone battery and the propellers are mounted securely.

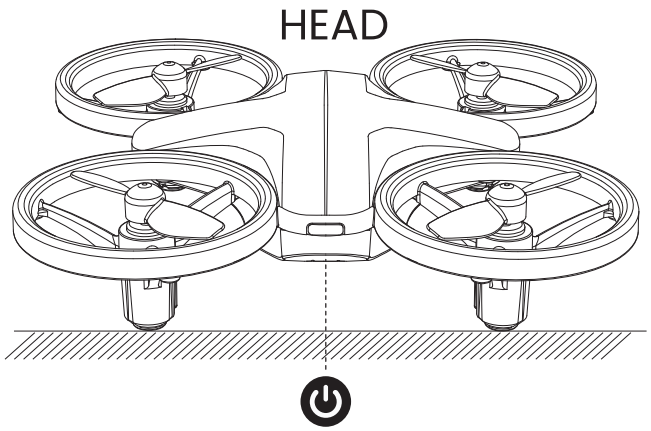
Make ensure that you use only accessories manufactured provided by this company.

2.4 Flight

Pairing

· All of the operations shown in this manual are demonstrated using MODE 2.

· You must keep your drone in visual line of sight all the time. If you can't see it, you can't control it.

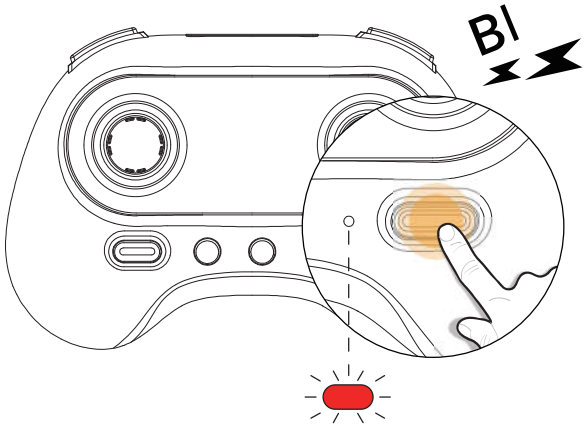


1 Turning on the drone

Long press the power switch ⏻ to turn on the drone. The lights on the drone begin to flash. Set the drone on a flat, level surface, positioning it so that the front faces away from you and the tail points towards you.

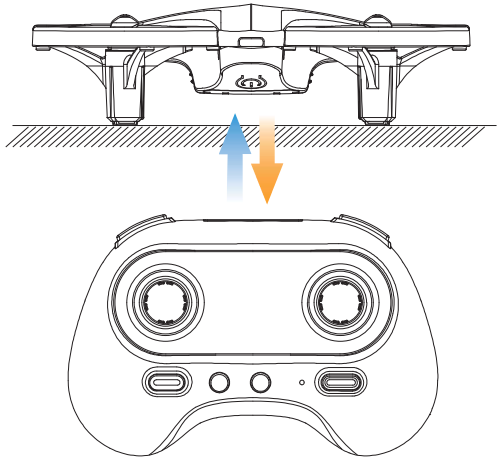
2.4 Flight

Pairing



2 Turning on the transmitter

Short press the power switch **ON/OFF** on the transmitter to turn it on; its power indicator will begin to flash red and the transmitter will beep once.



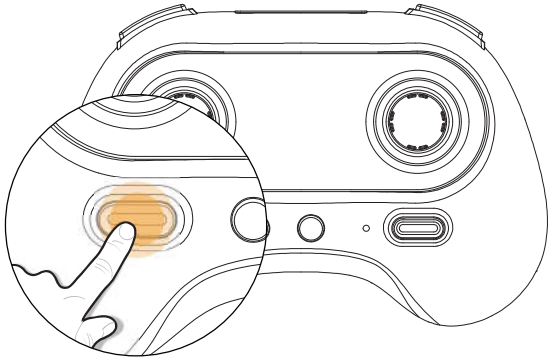
3 Auto-pairing

Successful pairing is confirmed when the lights on both the drone and the transmitter become steady.

2.4 Flight

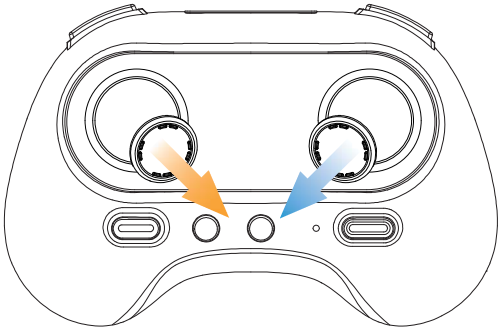
Unlock

Unlock the motors :



Method 1 :

Short press the button, the motors will rotate, and the drone is unlocked.



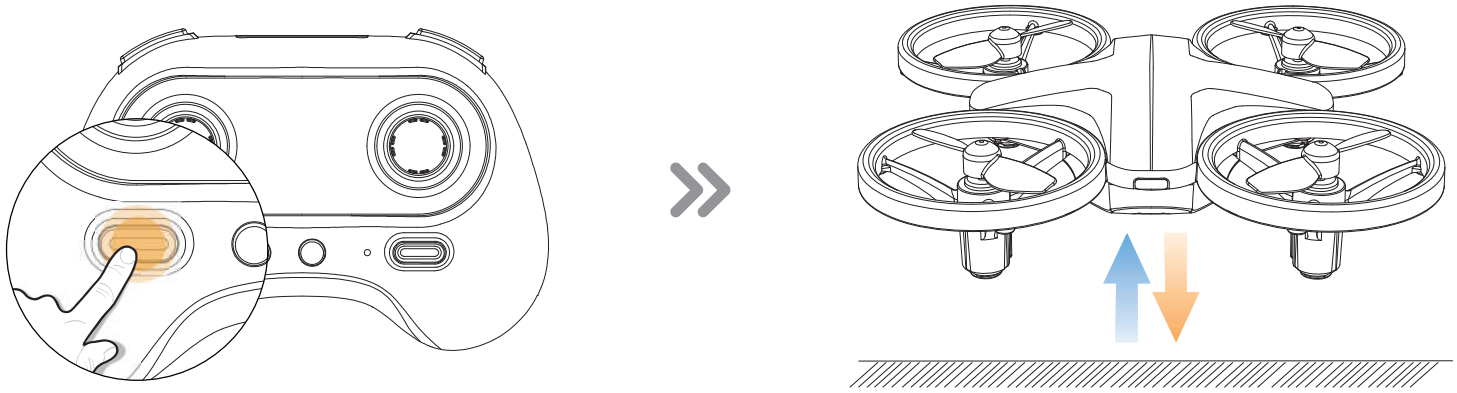
Method 2 :

Simultaneously push the left joystick to the bottom right corner and the right joystick to the bottom left corner. The motors will rotate, and the drone is unlocked.

2.4 Flight

Takeoff/Landing

Remember to unlock the motors before takeoff.

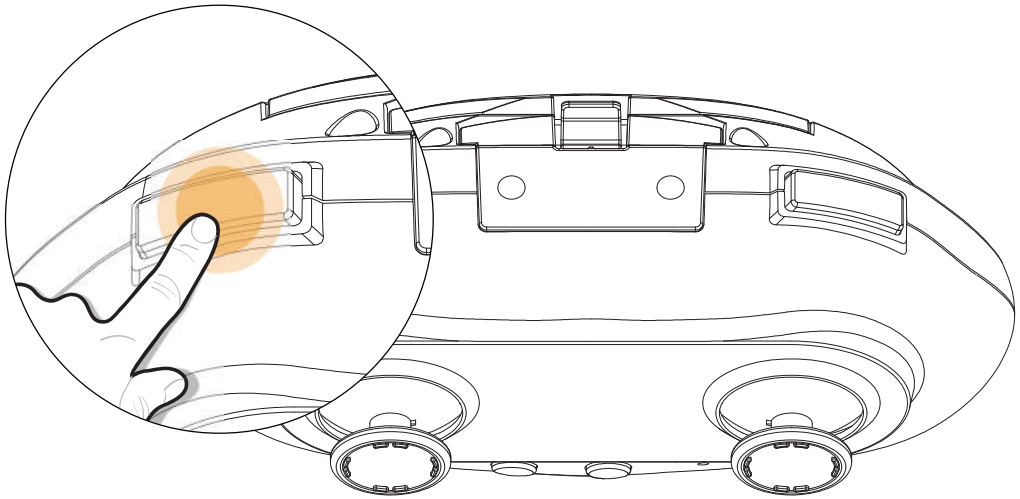


Takeoff : Short press the button. The drone will take off automatically and hover at 5 ft. Now you can control the drone by using the joysticks.

Landing : During the flight, short press the button, the drone will land on the ground automatically.

3.1 Flight Functions

Speed Switch

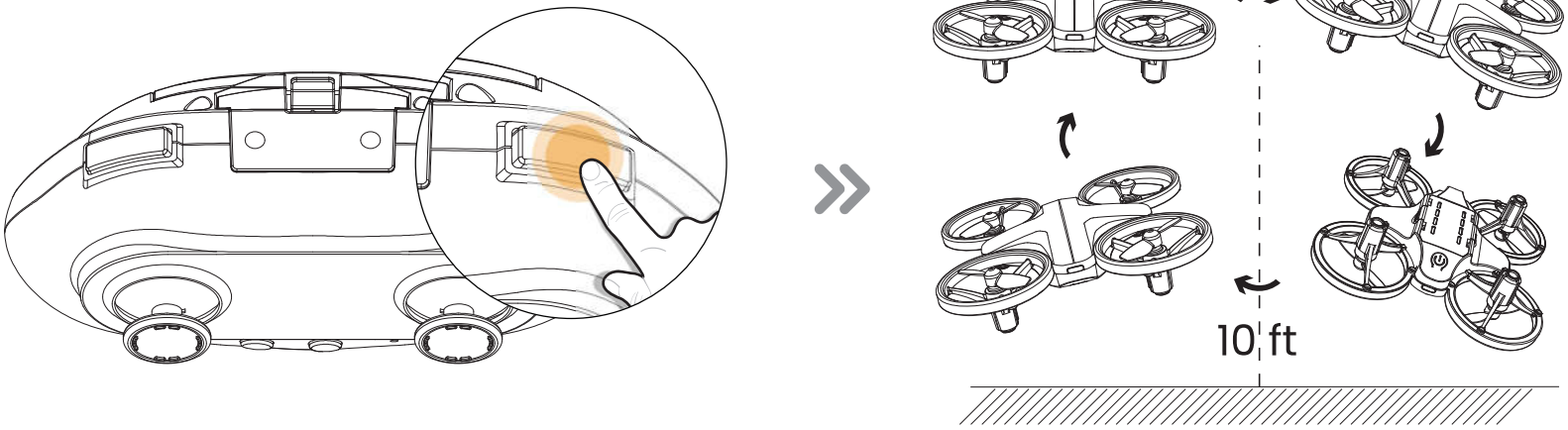


This drone comes with 2 speed modes (Low/High). Short press the button to switch between low and high speed. The transmitter beeps once to indicate Low Speed, beeps twice to indicate High Speed. (The Low Speed is the default speed mode.)
The low speed is 5.48 ft/s. The high speed is 8.2 ft/s.

3.1 Flight Functions

360° FLIP

When you get familiar with all the functions of the drone, you can try this amazing flip mode. When the drone is at least 10ft from the ground.
Short press the 360° button, then push the right joystick forward/backward or leftward/rightward. The drone will do a flip toward the corresponding direction.

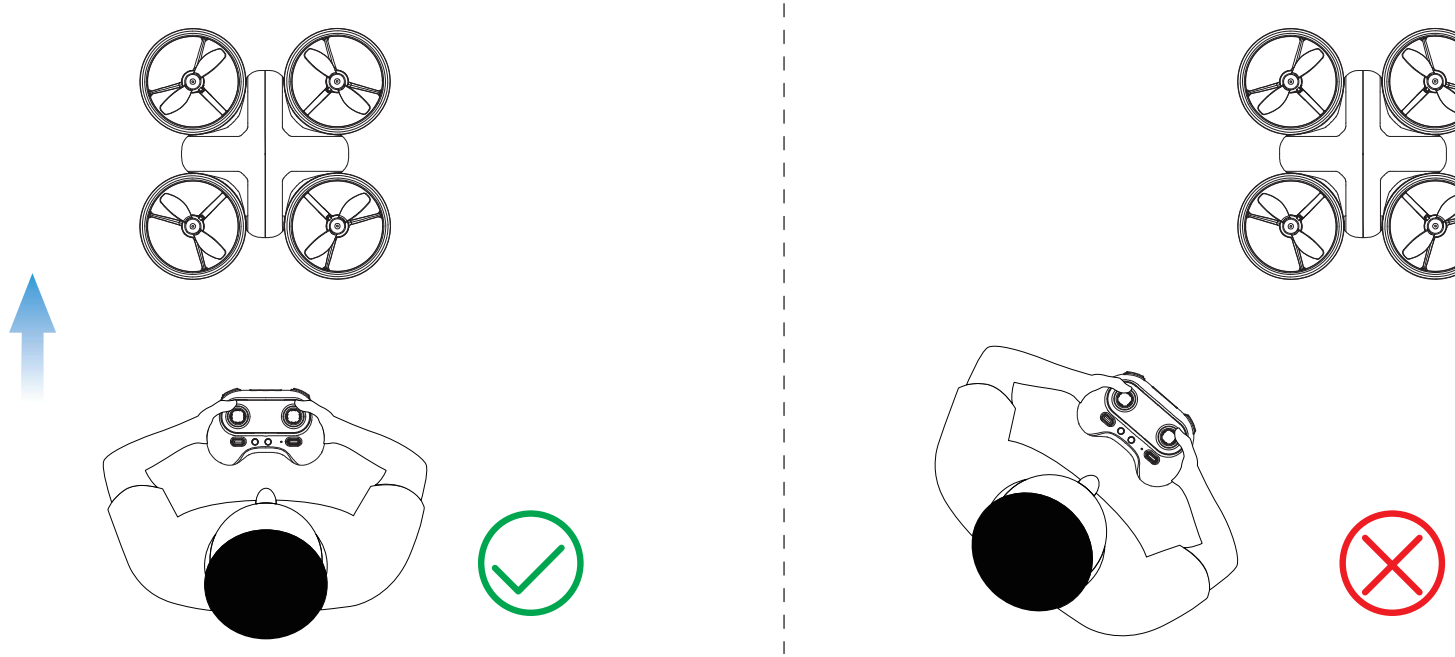


360° Flip function better when the battery is fully charged. And when the battery is low, the function is unavailable.

3.1 Flight Functions

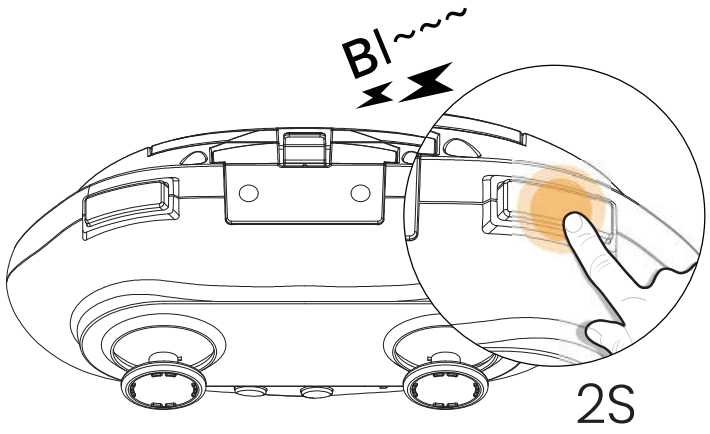
Headless Mode

The Headless Mode is a great training tool for beginner pilots. It is also useful when the drone is too far from the pilot (which makes it difficult to tell its orientation). It keeps the drone traveling forward, backward, left, or right when you move the right joystick in those directions, regardless of which way the front of the drone is pointed.



3.1 Flight Functions

Headless Mode



1. **Activating :** Long press the 360° button. The transmitter will make a long beep, indicating that the drone is in Headless Mode.

2. **Deactivating :** Long press the 360° button again. The transmitter will make a long beep, indicating that the drone has exited Headless Mode.

*** Why is the orientation of the drone important?**

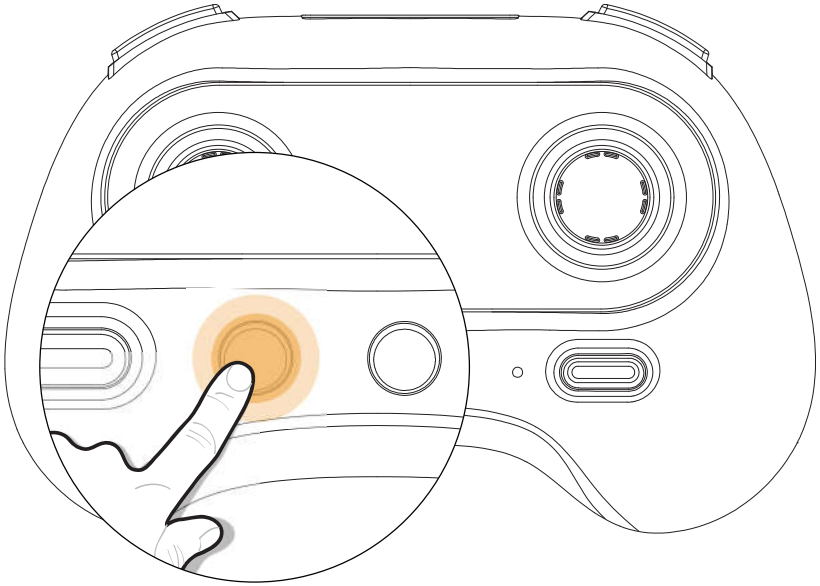
In normal flying mode, the control of the drone movement can sometimes be counter-intuitive for beginners. For instance, when the drone is in the air with its head pointing to your right, if you push the right joystick forward, the drone will fly to your right, instead of flying forward.

With the headless mode, the drone has a fixed "head." In Headless Mode, the drone always remembers the side its head points to during takeoff as the front side. This means that if the drone takes off with its head pointing forward, it doesn't matter how the drone is oriented in the air, when you push the right joystick forward, the drone will fly forward. Or, when its head is pointing to you, if you push the right joystick to the left, the drone will fly to your left.

3.1 Flight Functions

Light Switch

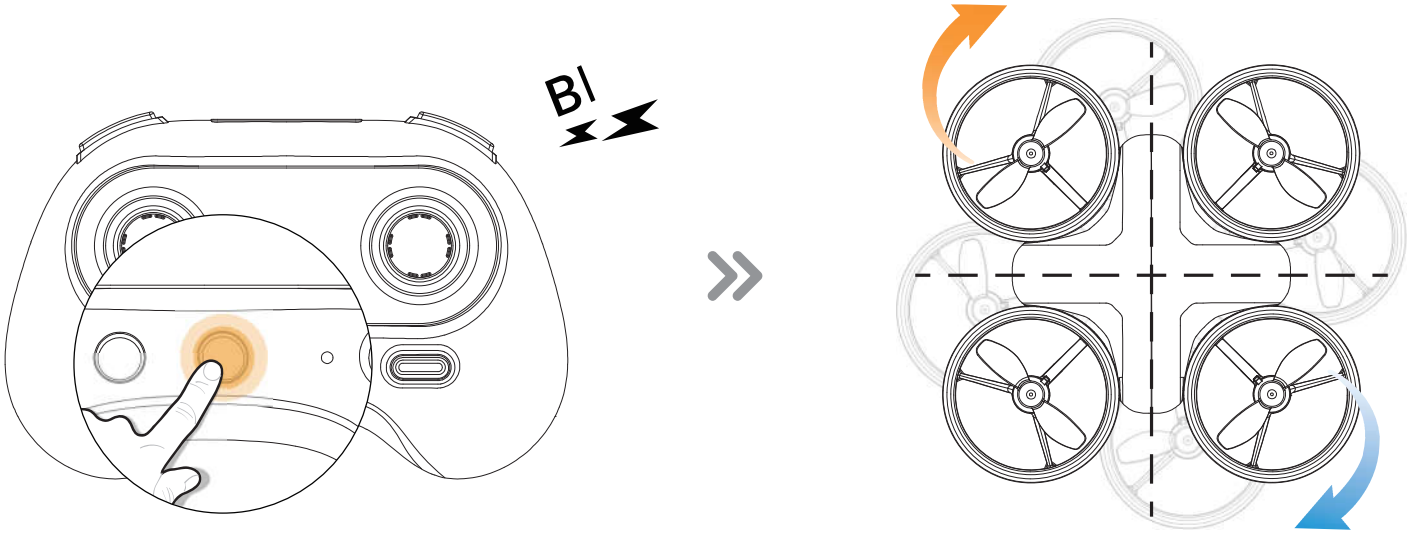
The drone supports six lighting modes. Short press the button once to change the light states. Every time the light state changes, the transmitter will beep once.



3.1 Flight Functions

High-Speed Rotation

Short press the button, the transmitter will make a beep, the drone begins to rotate quickly. The drone will exit the High-Speed Rotation function automatically after about 5 seconds, or you can also press the button again to stop the rotation.

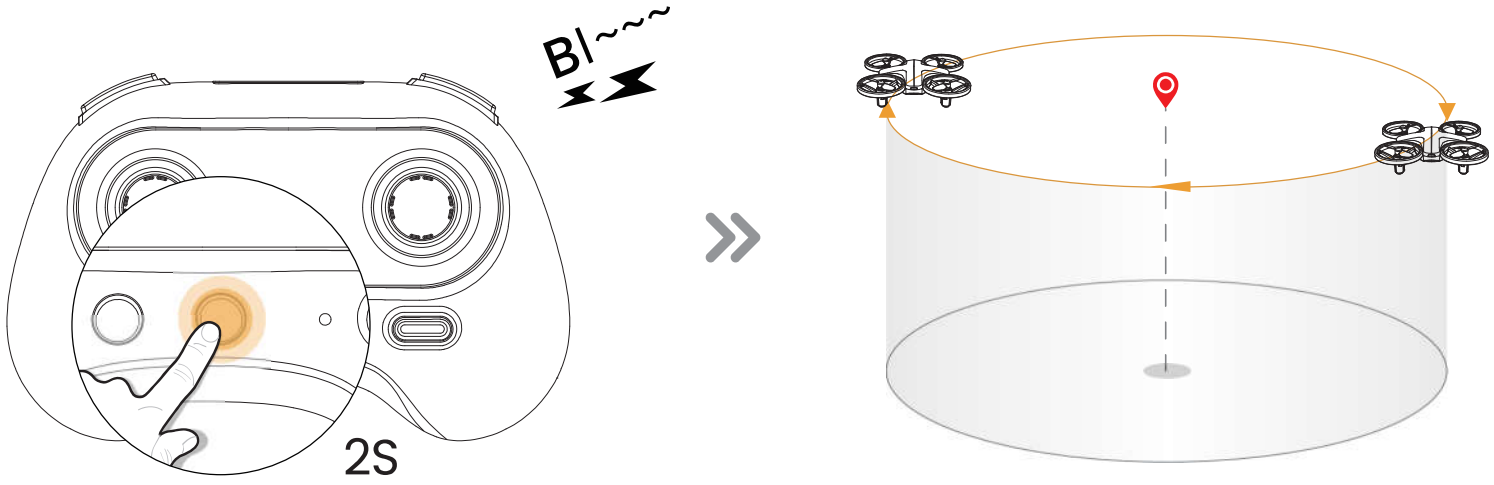


The High-Speed function better when the battery is fully charged. And when the battery is low, the function is unavailable.

3.1 Flight Functions

Circle Fly

Long press the button, the transmitter will make a long beep, which indicates that the drone has entered the Circle Fly function. The drone will exit the Circle Fly function automatically after about 5 seconds, or you can also long press the button again to stop the Circle Fly.

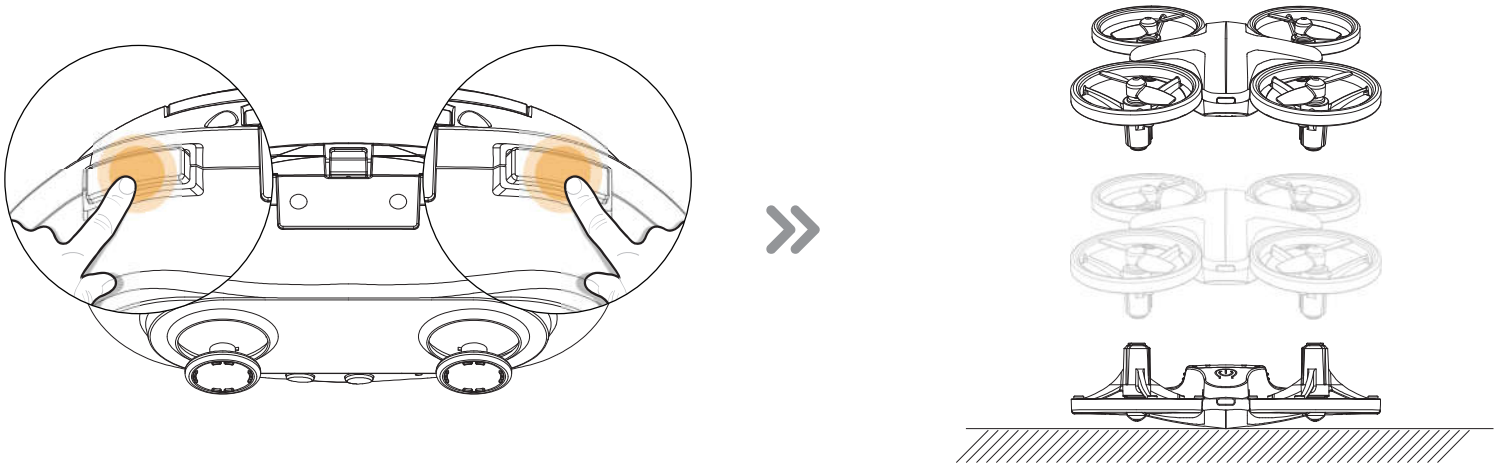


The Circle Fly function better when the battery is fully charged. And when the battery is low, the function is unavailable.

3.1 Flight Functions

Emergency Stop

1. Long press the upper left ( ) and upper right (360°) buttons of the transmitter at the same time, the motors will stop immediately.

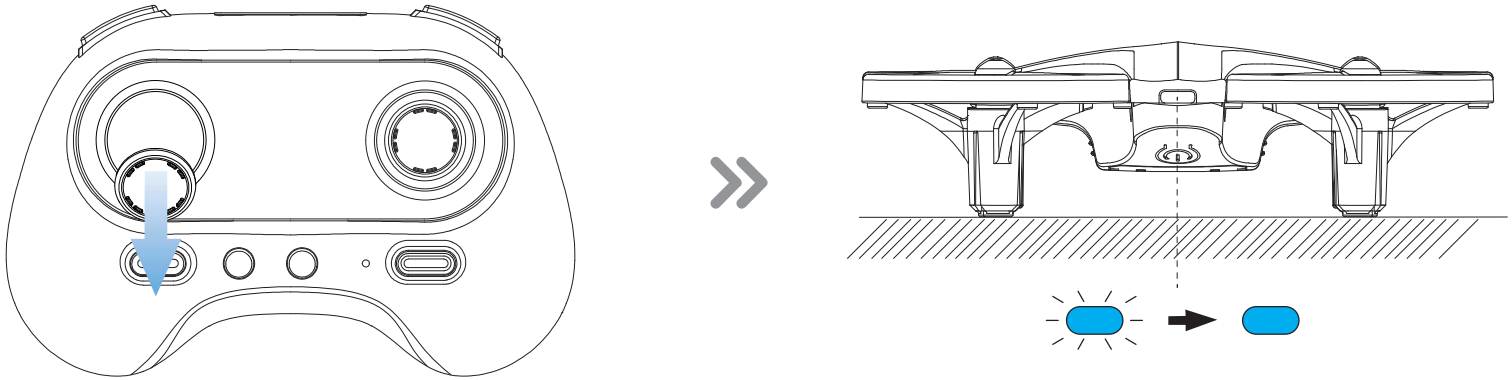


When the Emergency Stop is triggered, the propellers will immediately stop spinning, and the drone will lose control, falling freely from its current height. This could potentially hit people or anything in surrounding, leading to injury or damage to valuable items.
The Emergency Stop should only be triggered in emergency situations to minimize risk and reduce damage. Emergency situations include, but are not limited to: the drone losing control and colliding with people or animals or items, hair or other objects becoming entangled in the propellers, or the drone posing a threat to the safety of other aircraft, where immediate flight cessation or an immediate stop of the propellers is required.

3.1 Flight Functions

Emergency Stop

2 After the drone hits the ground, the indicator lights at the front and rear of the drone will flash quickly. Please put the drone on a level surface again, and push the left joystick downward. The indicator lights then turn from flashing to solid, which indicates that you can use the drone now.



3.2 Attitude Adjustment

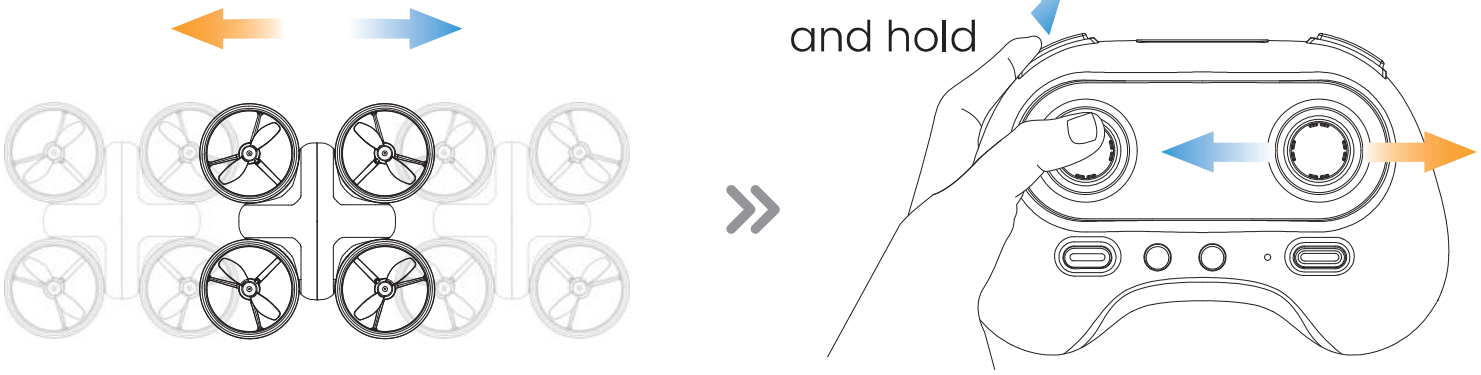
Trimming

Trim adjustments are designed to counter drifts not caused by airflow.

1 **Initiate Trim Mode :** Press down and hold the button throughout the trimming process.

2 **L/R Sideward Trim :**

- If the drone drifts to the right, push the right joystick to the left.
- If the drone drifts to the left, push the right joystick to the right.

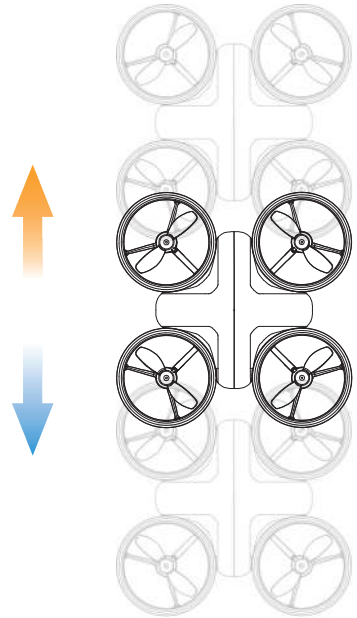


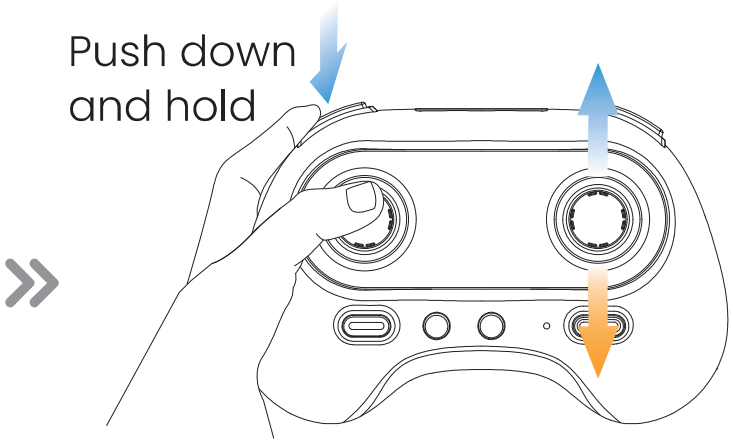
3.2 Attitude Adjustment

Trimming

F/B Sideward Trim :

- If the drone drifts backward, push the right joystick upward.
- If the drone drifts forward, push the right joystick downward.



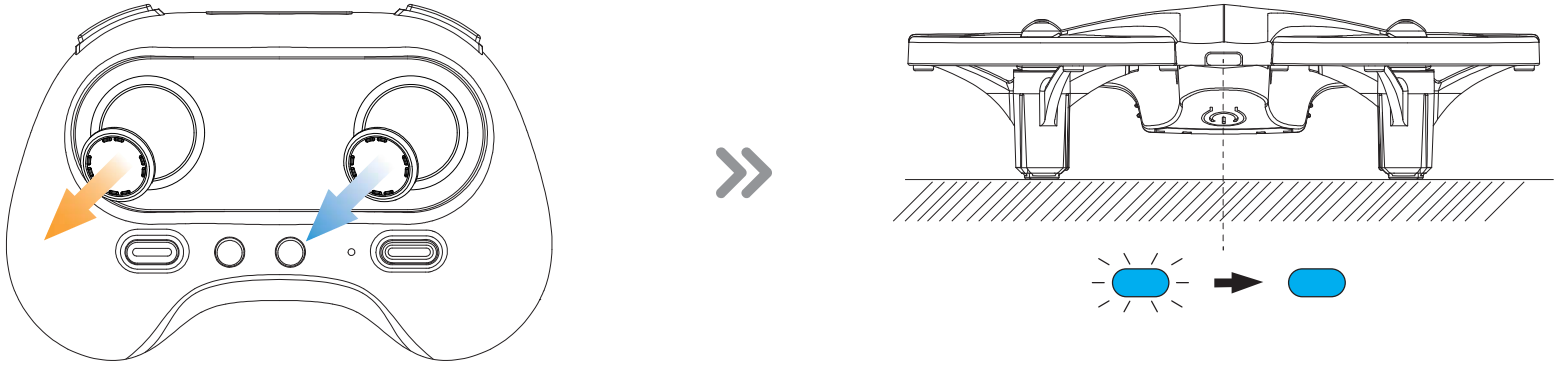


3 **Deactivate Trim Mode :** Once adjustments are made, release the button to exit trim mode.

3.2 Attitude Adjustment

Calibrate the Gyro

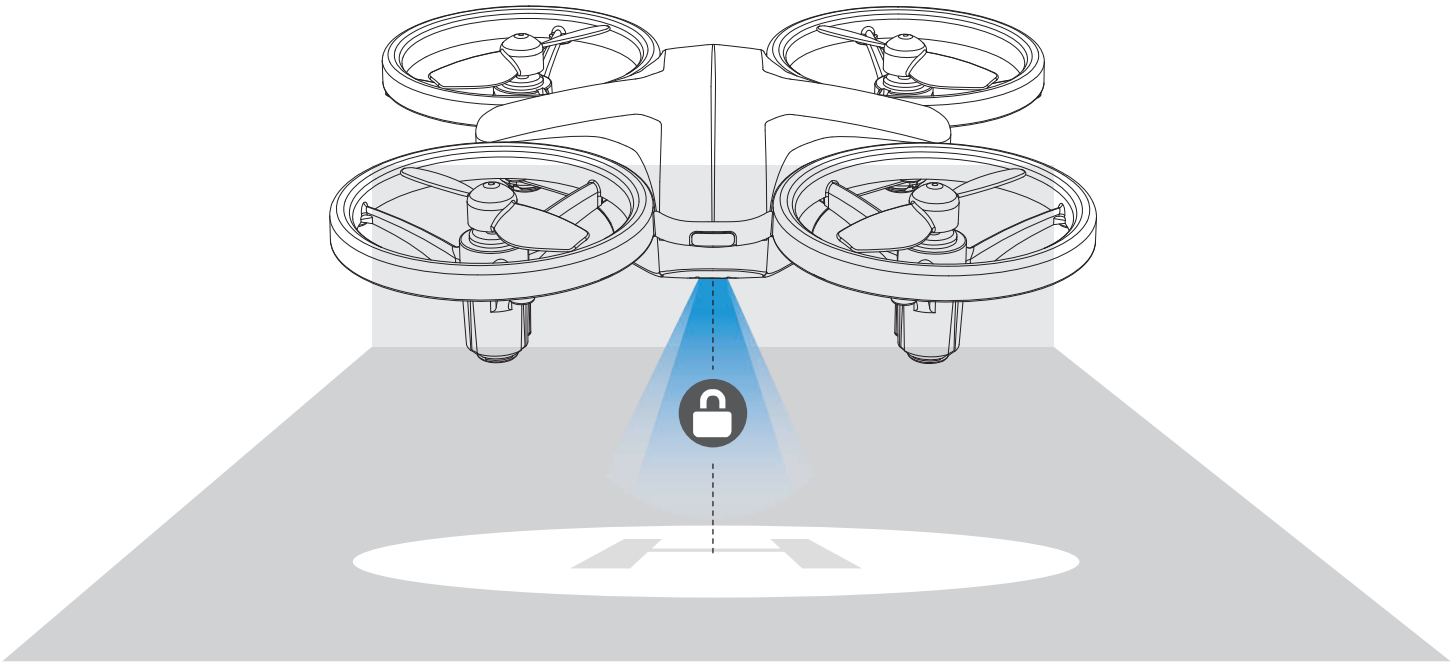
Make sure to place the drone on a level surface before calibrating the gyro. Simultaneously push the left joystick and the right joystick to the bottom left corner to calibrate the gyro. The indicator lights on the drone will blink, then turn solid, which indicates that the calibration is completed.



Gyro-calibration is necessary if the drone has been flying for an extended period of time, or if it experiences a fall or collision.

3.3 Stabilization Functions

Altitude-Hold Function



The drone is designed with an altitude-hold function to maintain its altitude after releasing the left joystick. (The left joystick will automatically spring back to the middle)

4.1 Specifications

- **DRONE :**

Model: HS180	Weight: 48 g/ 1.69 oz
Max Flight Height: 131 ft/ 40 m	Max Flight Speed: 8.2 ft/s
Max Flight Time: 7 minutes (in a windless environment)	Max Wind Speed Resistance: 5.25 ft/s
Size: 112*112*35 mm	Operating Temperature Range: 32° to 104°F (0° to 40°C)

- **DRONE BATTERY :**

Model: SDL-851740	Capacity: 500 mAh
Voltage: 3.7 V	Max Charging Voltage: 4.34 V
Battery Type: Lithium-ion Polymer Battery	Energy: 1.85 Wh
Charging Temperature Range: 41° to 104°F (5° to 40°C)	Charging Time: about 50 minutes

- **USB CHARGING CABLE :**

Input: 5V/2A	Rated Power: ≤10 W

4.1 Specifications

- **TRANSMITTER :**

Battery Type: 3 × AAA Battery (not included)	Operating Temperature Range: 32° to 104°F (0° to 40°C)
Operating Frequency: 2416-2475MHz	Max Flight Distance: 131 ft/ 40m (outdoor and unobstructed)

4.2 Contact Us

Please do not hesitate to contact us if you need further support.

eu@holystone.com (Europe)
usa@holystone.com (America)
ca@holystone.com (Canada)
au@holystone.com(Australia)

+1 (833) 766-4733

www.holystone.com

4.3 Troubleshooting

ISSUES	POSSIBLE CAUSES	SUGGESTED SOLUTIONS
The indicator lights of the drone are flashing and do not respond to the transmitter.	Insufficient battery power.	Recharge the battery.
	The transmitter is not paired to the drone.	Pair the drone and transmitter again.
The propellers spin, but the drone cannot take off.	The propellers are installed in the wrong orientation.	Install the propellers in the right orientation.
	The propellers are distorted.	Replace the propellers.
The drone cannot stay balanced in flight.	The motor doesn't work properly.	Replace the motor.
	The propellers are distorted.	Replace the propellers.

FCC Statement:

NOTE: 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 reasonable 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.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) this device may not cause harmful interference,
and (2) this device must accept any interference received,
including interference that may cause undesired operation.

FCC RF Exposure Warning Statement:This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment can be used in portable exposure conditions.