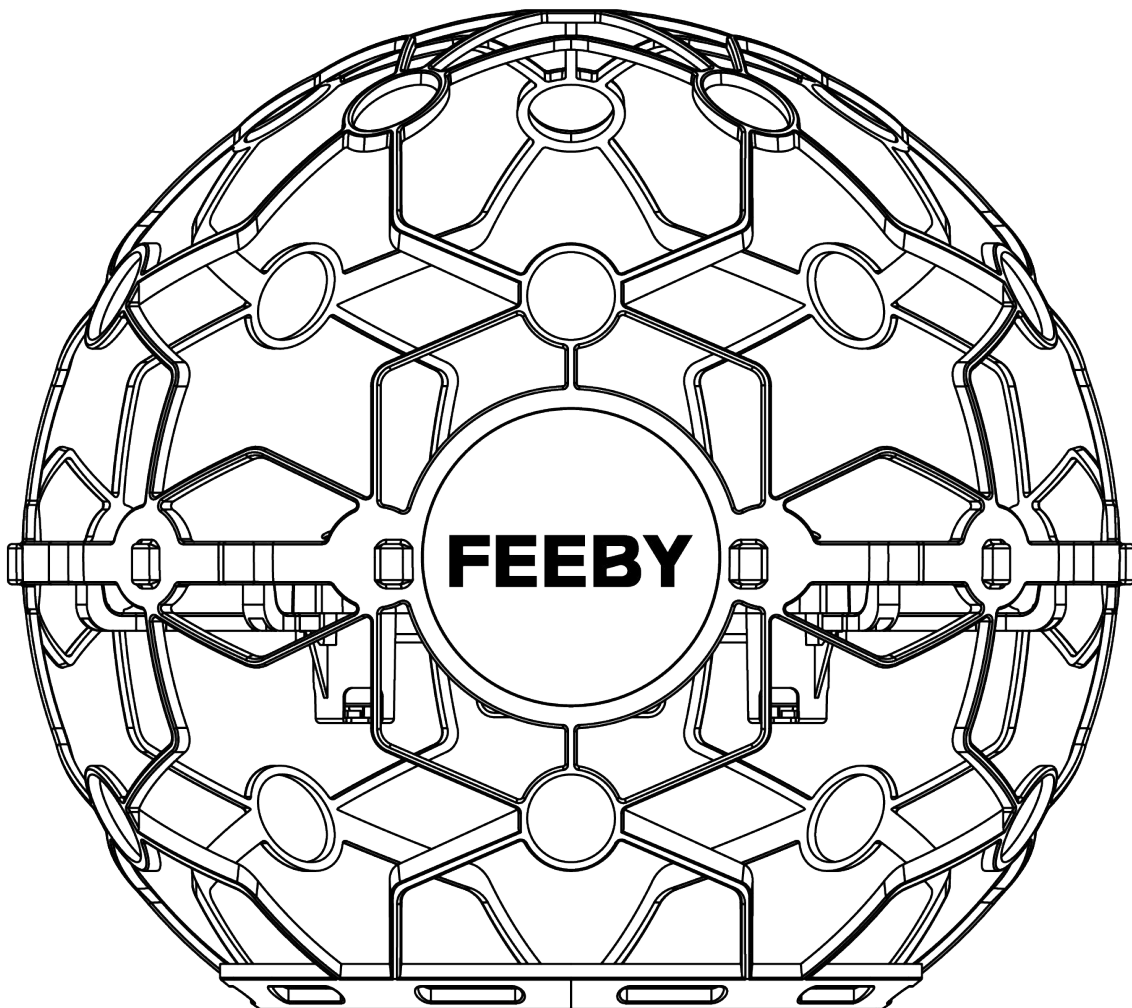


Please make sure to check the QR code on page 8 of this manual before use, and bind the aircraft with the remote controller.

FEEBY

USER MANUAL (Ver.2)



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1. Safety warning

Do not put your hand in the protective shell before the motor comes to a complete stop.

Don't fly at someone's face. They may be injured or their long hair may get caught in the spinning propellers.

Disconnect the battery or remove the propellers during inspection and maintenance.

Always have someone with you when charging the battery, and always disconnect the charger when you leave.

Do not leave the battery in a hot environment, and do not continue to use or charge a swollen battery.

Follow local laws and regulations when disposing of batteries.

2. Precautions

The intellectual property rights to this product and manual are reserved by HELSEL and may not be reproduced, copied, or published by any organization or individual without written permission. If quoted or published, Helsel must be credited as the source, and the manual must not be quoted in a manner different from its original intent.

This User Manual is provided as an online page and will be updated without notice to improve performance and ease of use.

This product is intended for indoor flight and has poor wind resistance.

Strong impacts may damage the outer protective shell.

This product is not waterproof.

Do not disassemble, replace and repair arbitrarily with non-original parts.

3. Specification

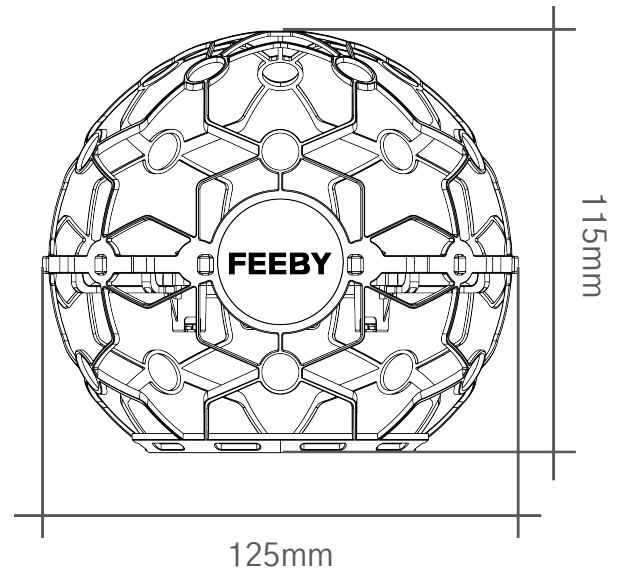
External dimensions: 125 * 125 * 115 mm

Take-off weight: 45g

Control range: 30 meters

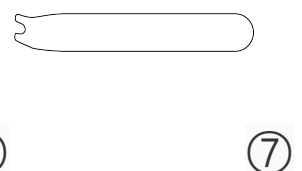
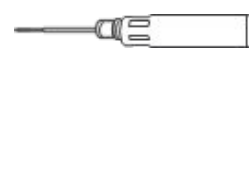
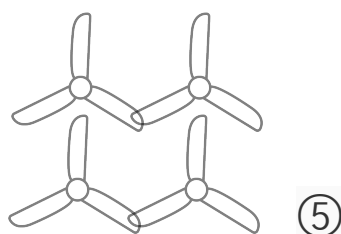
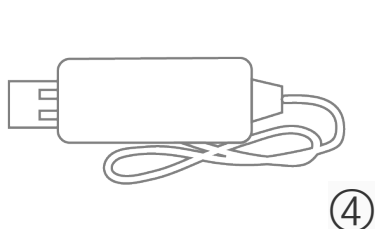
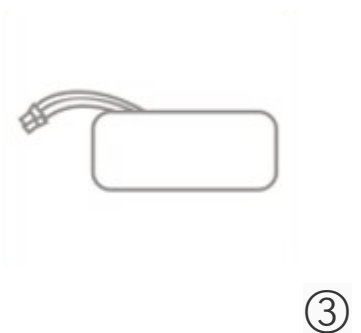
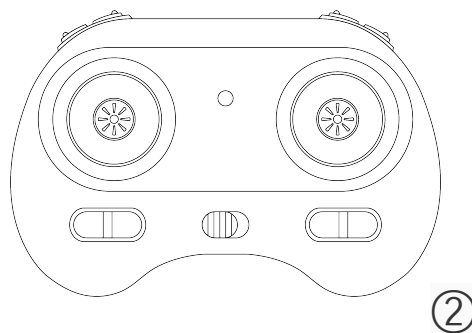
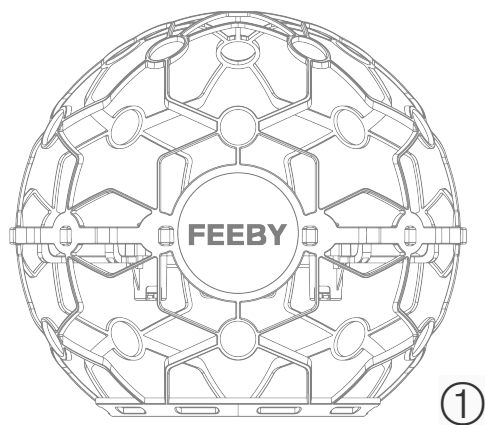
Battery capacity: 450mAh 3.7V LiPo battery

Hovering time: 5 minutes

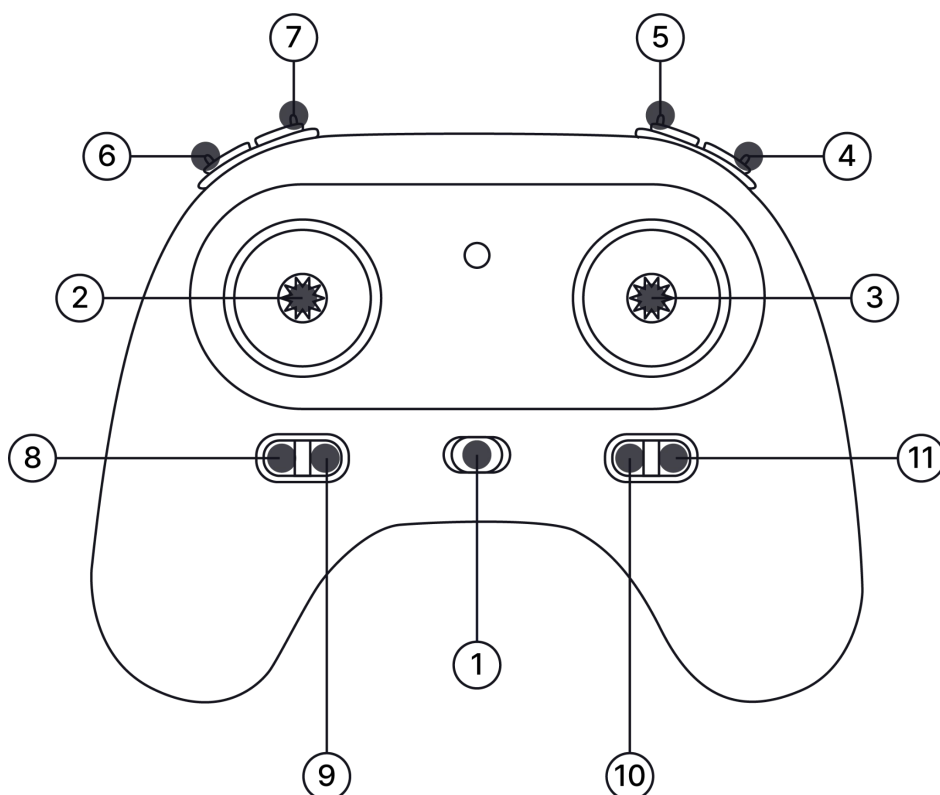


4. Product configuration

- | | |
|-----------------|-------------------|
| ① FEEBY x1 | ⑤ Prop x4 |
| ② Controller x1 | ⑥ Driver x1 |
| ③ Battery x1 | ⑦ Prop remover x1 |
| ④ Charger x1 | ⑧ Manual x1 |

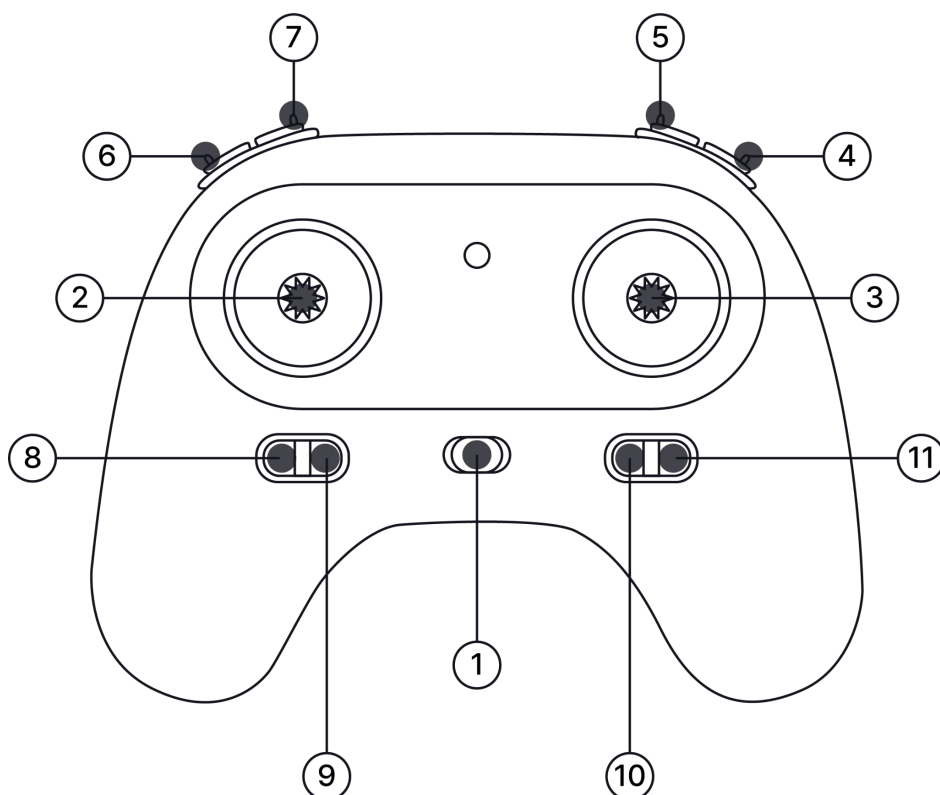


5. Controller button descriptions



No.	Designation	Move	Note
1	Power ON / OFF	Power ON/OFF	
2	Left stick	Rise, fall, and rotate left and right	Default Mode 2
3	Right Stick	Move forward/backward, left/right	
4	Speed	1 to 3 speed adjustments	Works with beeps
5	Rear LED color	The LED changes with each press.	7 light display modes
5+2	Center LED color	Hold the Left Throttle (2) at the lowest position and press Button 5 to change the color.	
6	Motor Start/ Emergency Stop	Short press to start the motor	To stop the motor, press and hold for 2 seconds.
7	Flip	Rotate 360 degrees with a warning beep	
8	One-touch takeoff/landing	Auto Takeoff/Landing	Use after motor startup

5. Controller button descriptions

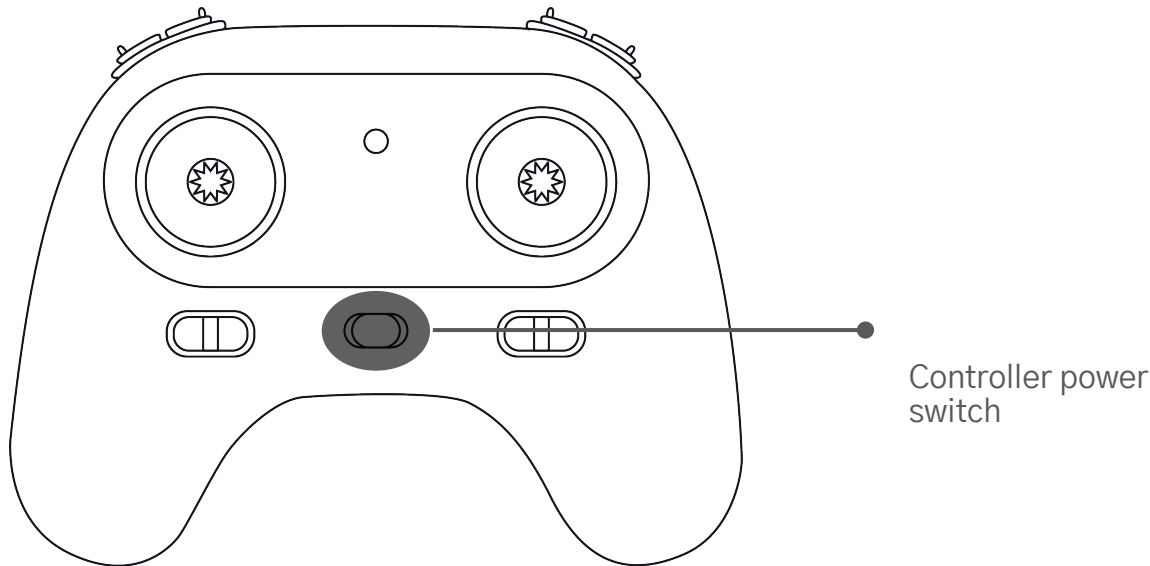


No.	Designation	Move	
10	Pairing Mode	Mode to connect the controller and the drone	Used during initial setup
11	Headless Mode	Turn Headless Mode ON/OFF	Always recognizes the direction set at takeoff as the front
1+5	Change modes	Press button 5 and power on to change to mode 1.	Right Stick Throttle
2+6	Emergency stops	Keep the throttle at the lowest level and press button 6 to activate the emergency stop.	
2+3	Motor Stop	Simultaneously move the 2nd stick to the 7 o'clock position and the 3rd stick to the 5 o'clock position (outward from the left and right joysticks) to the very bottom.	
9+3	Trim	Press button 8 and move stick 3 at the same time. To adjust forward, backward, left, or right, do this	

6. How to use

STEP. 01

Power on



Controller power switch

Turn on the controller switch first, then power on FEEBY.

Powering on FEEBY before the controller can cause malfunctions and unbinding.

- Do not power off the controller until the flight is completely over.
- FEEBY may spin out of control if you turn off the controller during flight or if the controller automatically turns off due to low battery.
- When replacing FEEBY's batteries, please do so with the controller still on.
- When you are completely finished flying, first remove FEEBY's batteries to power it off, then turn off the controller.

The controller will beep when the battery is low.

FEEBY primary low voltage alarm (low power): The tail lights will flash multiple times three times per second.

FEEBY 2nd low voltage alarm (low power): The tail light flashes several times per second, You can no longer fly and cannot restart.

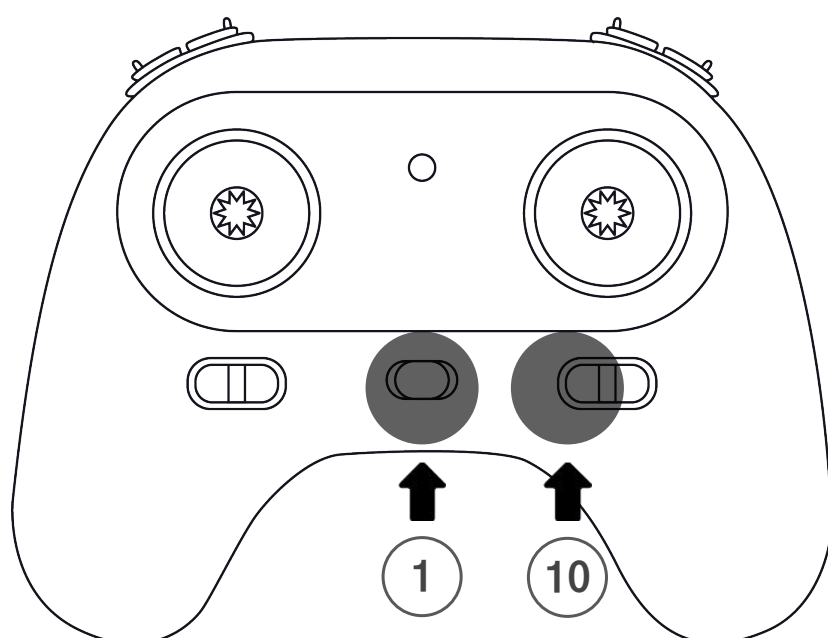
STEP. 02

Pairing the Controller

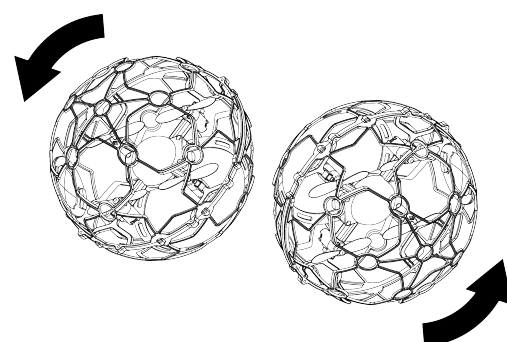
Your product is paired at the factory, and under normal circumstances, you don't need to pair it every time you power it on.

However, the following conditions can cause the pairing to break down and require re-pairing

- A) The transmitter or receiver has been replaced.
- B) The FEEBY is paired with a different remote control.
- C) Radio interference from the surrounding environment (Wi-Fi, BT, etc.)
- D) Other causes of impact to the device



Pairing Video QR-CODE



Flip the device completely up and down 3 times.

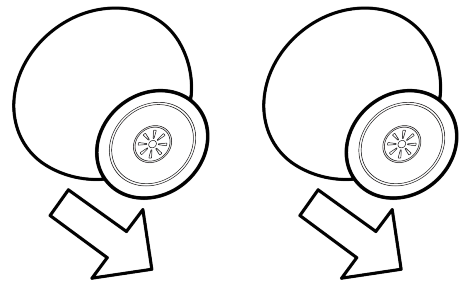
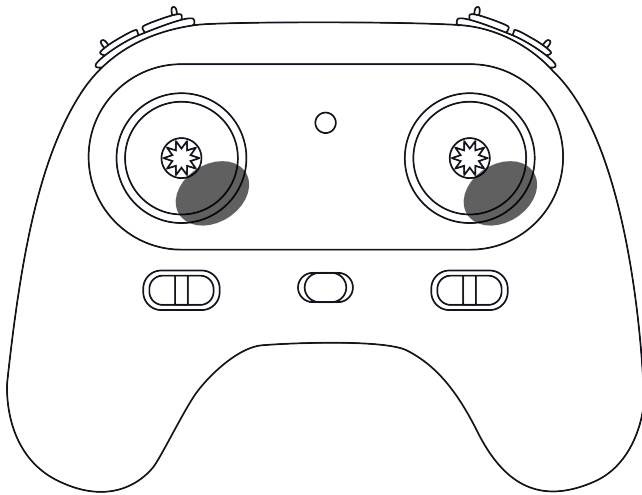
How to pairing
1. Connect the power of the device (The LED indicator flashes rapidly before pairing)
2. The drone, ready for pairing, will stop the rapid flashing of the central circular light and will light up (Red/Blue/Green). (The LED indicator will flash rapidly again.)
3. Flip the device up and down quickly and completely 3 times in a row. (The LED indicator will flash rapidly again.)
4. Turn on the controller power (middle bottom [1]) and then press the frequency pairing button (right bottom [10]) to proceed with pairing. The pairing status stops flashing and the pairing is successful. (If the LED continues to flash rapidly or pairing fails, try again.)
5. Check the pairing status via the LED indicator or the start key.

STEP. 03

IMU Calibration

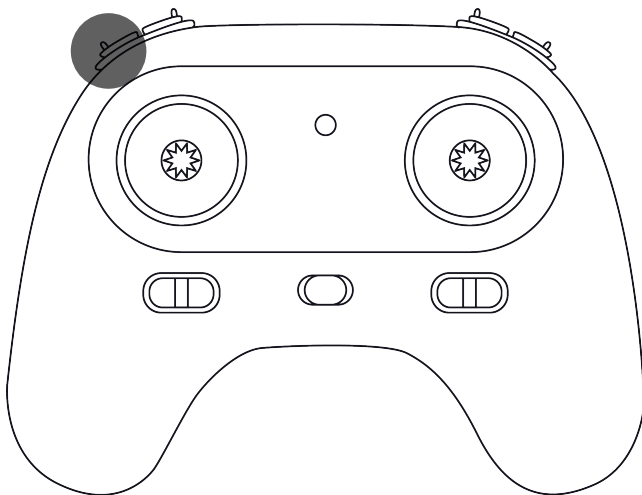
It is recommended to perform IMU calibration before takeoff. Level FEEBY and enter IMU calibration by simultaneously moving the left and right joysticks to the lower right corner as shown.

The FEEBY's tail lights will flash rapidly, wait 3 seconds and the remote will beep and the tail lights will stop flashing, indicating that the calibration is complete.



STEP. 04

How to Start



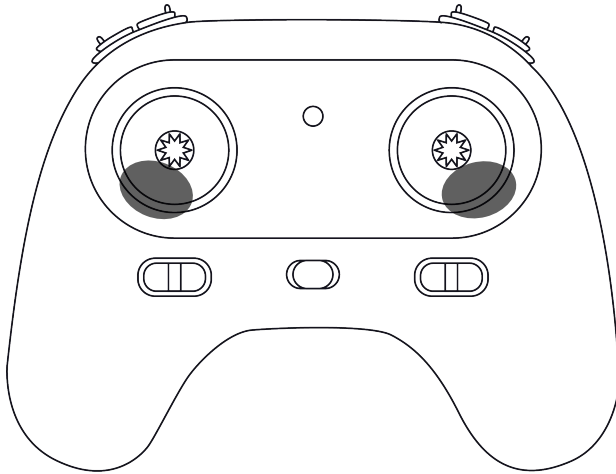
With the controller and FEEBY connected, press the motor start button (top left [6]) on the controller to spin the motors. Move the throttle stick up to take off.

We recommend taking off in altitude hold mode and switching to leveling mode as needed. (Takeoffs in leveling mode are not recommended).

STEP. 05

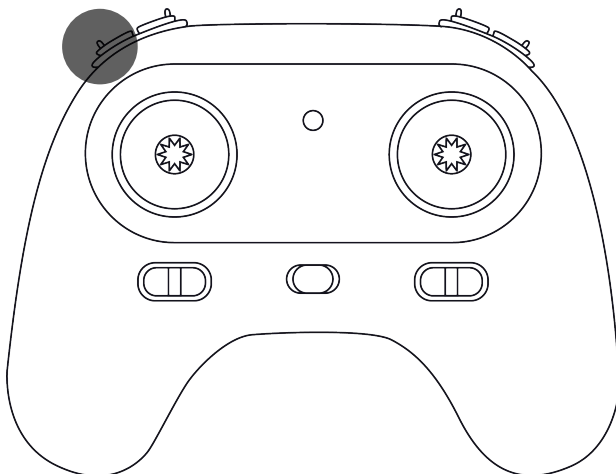
How to stop the motors

There are **three ways** to stop the motor: (Default on Mode 2)



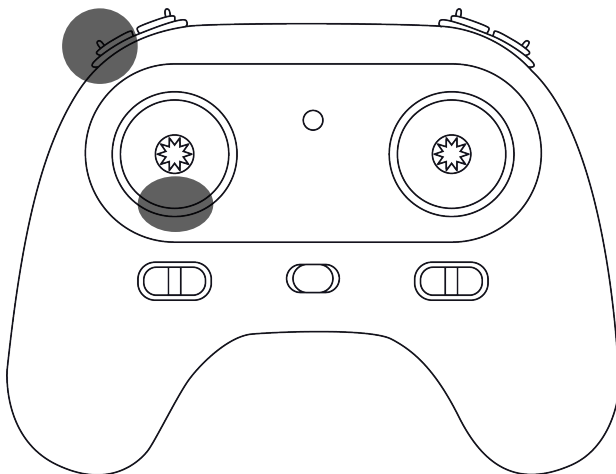
Motor Stop

Simultaneously move the 2nd throttle stick (left) to the 7 o'clock position and the 3rd throttle stick (right) to the 5 o'clock position, pushing both to the very bottom.



Emergency Stop

To stop FEEBY in an emergency, you can press and hold the top left button (6) for 2 seconds to activate the emergency stop function.

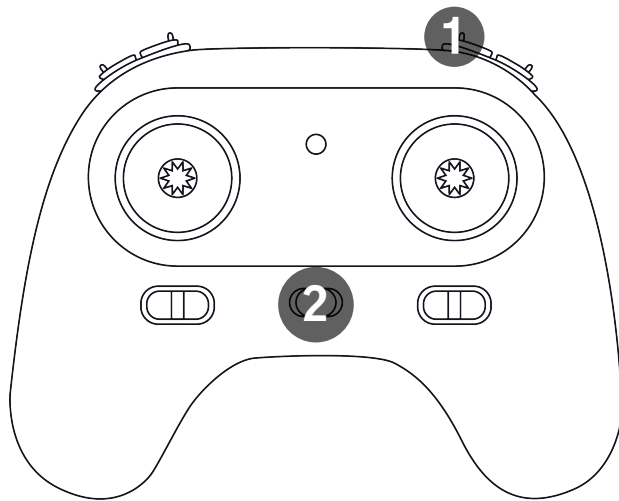


Emergency Stop

To emergency stop FEEBY, you can push the throttle stick (left stick) all the way down and press the top left button (6) to activate the emergency stop function.

STEP. 06

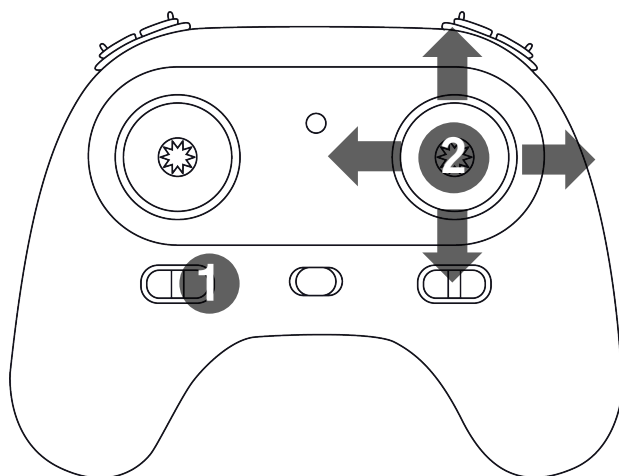
Change modes



Before powering up FEEBY, hold down the speed control button (top right [5]) on the controller to change modes when you power it up.

STEP. 07

Trim



If you are hovering in flight and the FEEBY is drifting in one direction, you need to set trim.

Press and hold the trim button on the controller (bottom left [9]) and move the right stick [3] of the controller. You can move it in the following directions: forward, backward, left, and right.

STEP. 08

Mode Description / Mode 2

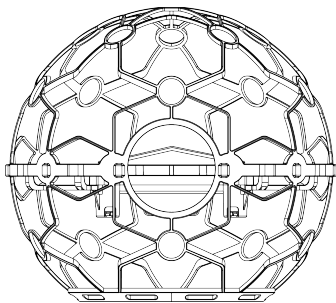
The controller defaults to the [Mode 2 setting](#).

Mode 2 features: Left (Up/Down), Right (Forward/Backward)

Mode 1 features: Left (Forward/Backward), Right (Up/Down)

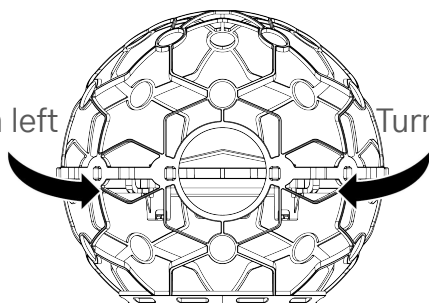
Left Stick

Up



Down

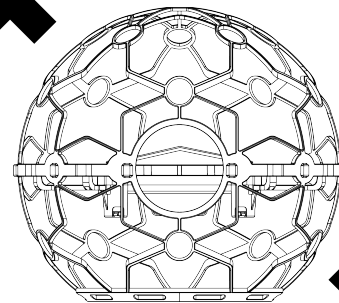
Turn left



Turn right

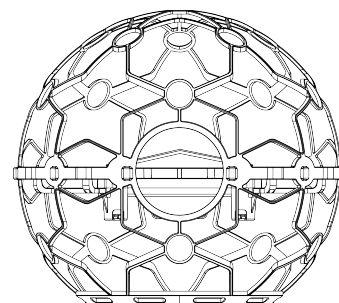
Right Stick

Forward



Backward

Left



Right



STEP. 08

Mode Description / Mode 1

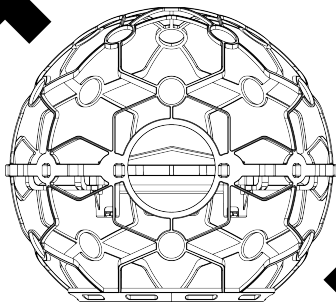
Connect the battery to the FEEBY and turn it on by pressing and holding the controller power button and the top right speed control button together.

The controller will beep three times in rapid succession to change the flight mode to Mode 1.

When you power cycle the controller after your flight, it will return to its default mode, Mode 2.

Left Stick

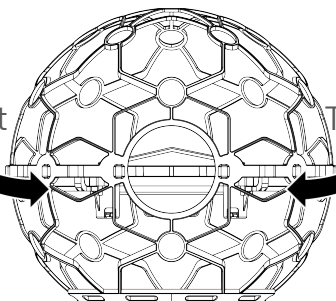
Forward



Backward



Turn left

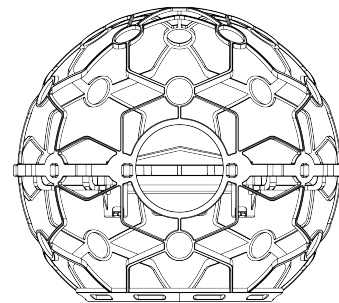


Turn right



Right Stick

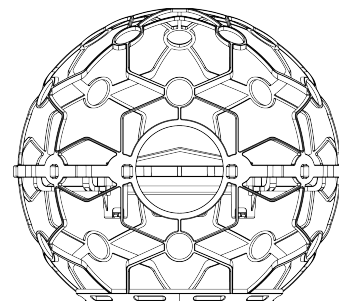
Up



Down



Left

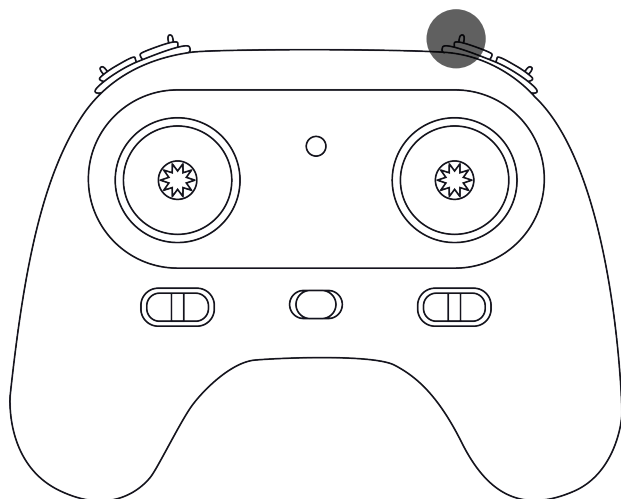


Right



STEP. 09

LED color change

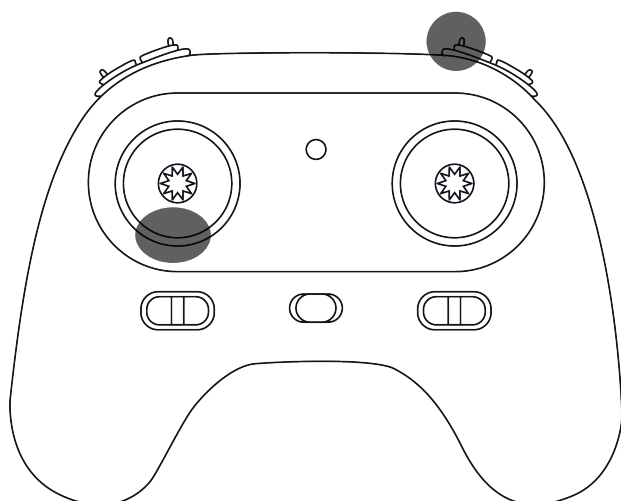


Rear LED Color Change

After turning on the power of the Pibi (the drone), you can sequentially change the LED color by pressing the LED Color Change Button (Top Right [5]).

(White, Purple, Yellow, Sky Blue, Green, Red, Blue)

Color change is not possible during flight.



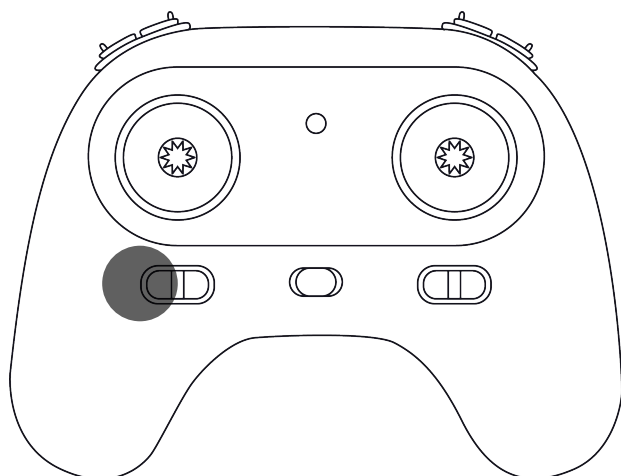
Center Led Color Change

Keep the Left Throttle (Middle Left [2]) at the lowest position, and press the LED Color Change Button (Top Right [5]) to change the center circular light.

(Red / Blue / Off)

STEP. 10

One Touch Takeoff and Landing



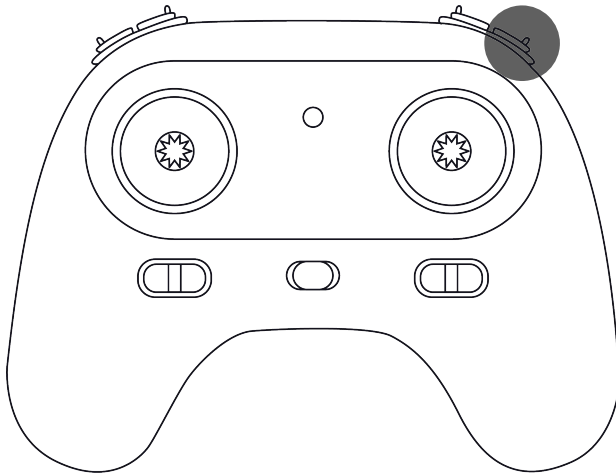
One-touch takeoff and landing mode only works in altitude mode.

After starting FEEBY, press the takeoff and landing button (bottom left [8]) once briefly, the controller will beep and FEEBY will automatically take off and hover at a height of about 1 meter.

Press the takeoff and landing button (bottom left [8]) again briefly and the controller will beep and FEEBY will land in its current position and turn off the power.

STEP. 11

3-Speed Control

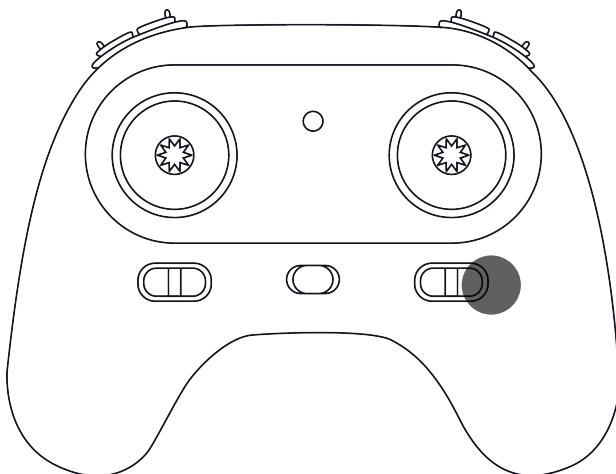


- 1 beep: low speed
- 2 beeps: medium speed
- 3 beeps: high speed

During flight, you can change your flight speed by pressing the speed control button on the controller (top right [4]), which will sound when you do so.

STEP. 12

Turn Recovery Mode

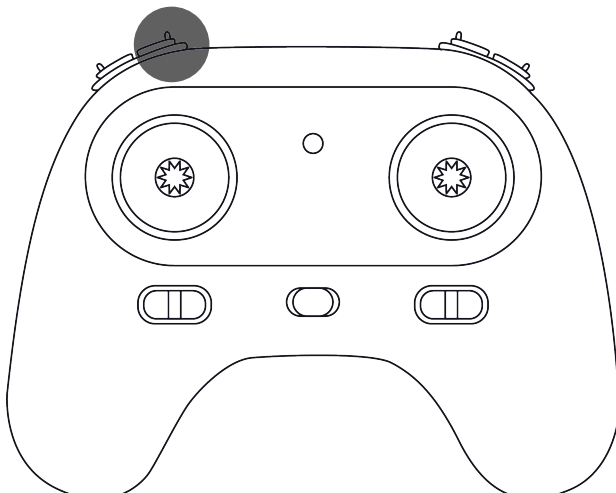


During flight, you can toggle the rotation recovery feature on and off by pressing the rotation recovery button on the controller [11] (bottom right).

The default value is On.
If a crash occurs in flight when rotation recovery is on, the head will automatically reposition itself.

STEP. 13

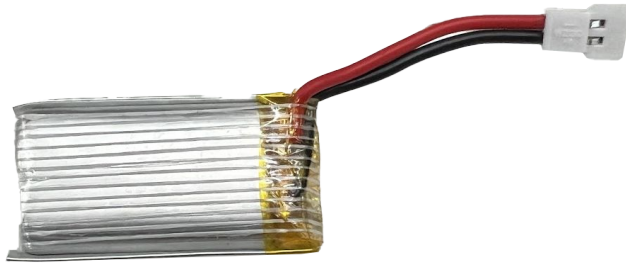
Flip



FEEBY can flip forward, backward, left, and right.
 Press the flip button (top left [7]) and point the right stick in a direction to flip in that direction.

STEP. 15

How to charge the battery



Battery



Chargers

When the battery is low	The red LED lights up when the battery is connected to the battery charging cable.
When the battery is fully charged	The red LED on the cable turns off.



Plug the battery charging cable into a power source,
battery and the battery charging cable.



When the battery is fully charged, the red LED turns off.

7. FAQ

The remote controller does not turn on.	If the batteries are not installed correctly, the remote controller will not power on.	according to the + and – marks on the battery compartment, or try again with a new battery.
	Remote controller power failure.	Please check and apply for A/S.
	If the remote controller is not turned on.	Position the power button to ON.
The FEEBY won't start.	Check battery connection.	Check the connection status and connect in the correct direction.
	Check whether the distance to the remote controller is within the limit.	Fly within a 200M radius. We recommend flying within sight in an unobstructed indoor environment.
	Make sure it is not a disconnected remote controller.	Check the remote controller, check the remote controller connection method in the manual, and try to reconnect.
Start/Stop/IMU calibration cannot be performed	Check the status of the remote controller.	Turn on the controller and rebind it.
Altitude is not maintained	Temporary operational failure due to excessive shock	Perform IMU calibration again.
	Make sure you are in altitude mode.	Turn on altitude mode.
Soar up in altitude mode	Check if the propellers	Check and replace the propellers.
	If the FEEBY is shaken or shocked too much.	Turn the power off and on and try again.

7. FAQ

FEEBY's flight performance is strange.	If the screw is loose.	Tighten without shaking.
	Damage to central bracket.	Check and replace.
	If the propellers are severely damaged or installed in the wrong direction.	Check and replace.
Check and replace.	Replace motor.	Please apply for A/S.
Each switch does not work.	Poor contact condition of switch.	Please apply for A/S.
The FEEBY is not rising.	Low battery.	Replace the FEEBY's battery.
	Low battery in the controller	Replacing the battery in the controller
The motor doesn't stop	Pull the throttle stick all the way.	Hold the throttle stick at the lowest position for more than 2 seconds.

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