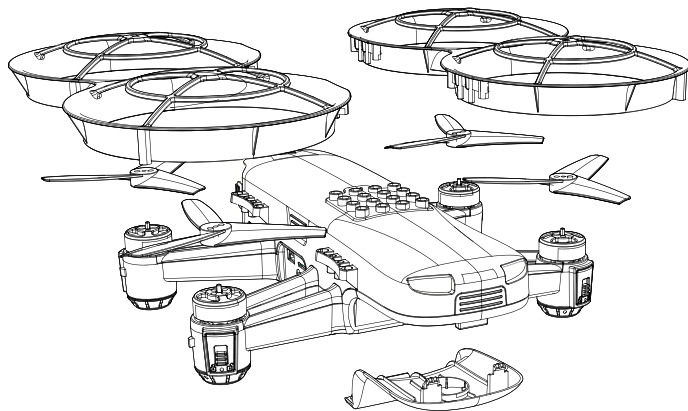




LiteBee Bot

User Manual

Contents

Product Profile

Introduction	1
Product list	2
Specifications	3
Product Diagram	4

Aircraft

Controller	5-7
Battery	8-9
Propeller	10
Propeller Guard	11
Foot Pad	12

Flight

Power On	13
Drone Operation Guide	14-16
App and Programming	17-20
Disclaimer	21

Product Introduction

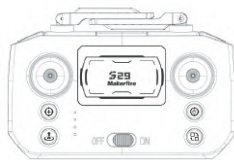
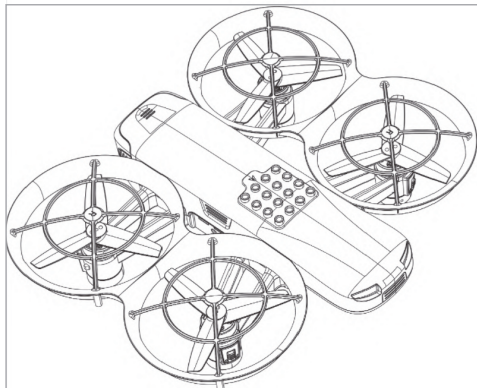
LiteBee Bot is an educational programming drone designed for middle school maker education. It combines AI learning and competitive drone in a complete STEAM kit.

Featuring a brushless power system, optional detachable 3-axis gimbal, and modular frame, it supports diverse tasks such as object transport, infrared targeting, line following, and battle.

The drone offers both online and offline block-based programming, providing an intuitive platform for hands-on learning and logical thinking development.

Product List

● Aircraft × 1



● Remote Controller × 1



● Battery × 1



● Bottom Cover × 1

● Charging Hub × 1

● Toolkit × 1

● Spare Propeller × 4

● Type-C Cable × 1

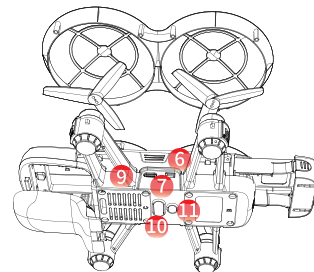
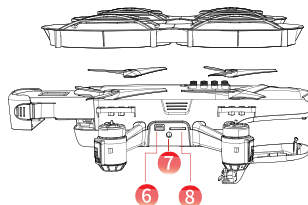
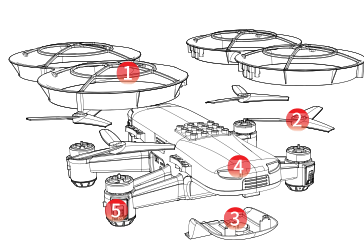
● Phillips Screwdriver × 1

● Hexagon Socket Screwdriver × 1

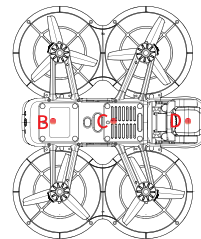
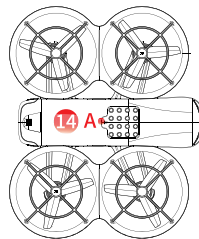
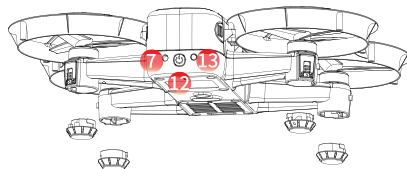
Specifications

No	Category	Specification
1	Weight	249g
2	Wheelbase	161mm
3	Propellers	3028 (3-inch)
4	Motor Specs	1404 (5300KV)
5	Battery	1800mAh / 13.32Wh
6	Charging Time	60 minutes
7	Remote Range	100 meters
8	Flight Time	12 minutes
9	Max Payload	120g
10	Dimensions	229mm × 197mm × 83mm

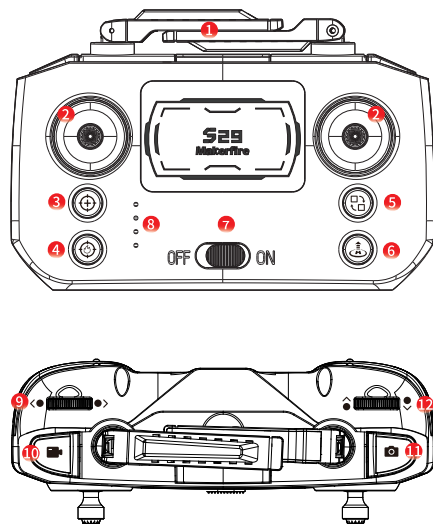
Product Diagram



1. Propeller Guard	2. Propeller	3. Bottom Cover	4. Front Light	5. Brushless Motor	6. Expansion Port	7. Infrared Receiver
8. TF Card Slot	9. Type-C port	10. Bottom Camera + Optical Flow	11. TOF Sensor	12. Battery	13. Tail Light	14. Expansion Port A~D

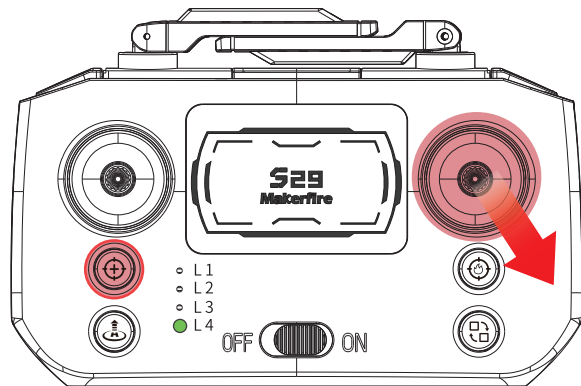


Product Diagram



No	Item	Description
1	Antenna	/
2	Joystick	Controls the aircraft's forward, backward, rotation, etc.
3	Calibration	Click to calibrate (required for the first time when powering on)
4	Fire button	Triggers infrared emission (buzzer beeps once when pressed)
5	Execute / Stop Programming	Click once to execute programming; click again to stop
6	One-key Takeoff / Landing	Click to take off or land
7	Power Toggle Switch	Turns the remote controller on or off
8	Indicator Light	Shows the status of the remote controller or aircraft
9	Gimbal Roll Control	Left (<):Roll the wheel to the left. Right (>):Roll the wheel to the right.
10	Video Recording Button	Click to start or stop video recording
11	Photo Button	Photo Button
12	Gimbal Tilt Control	Up (^):Roll the wheel to the left. Down (v):Roll the wheel to the right.

Mode Switching



● Default Mode

Mode 2

● Operation Method

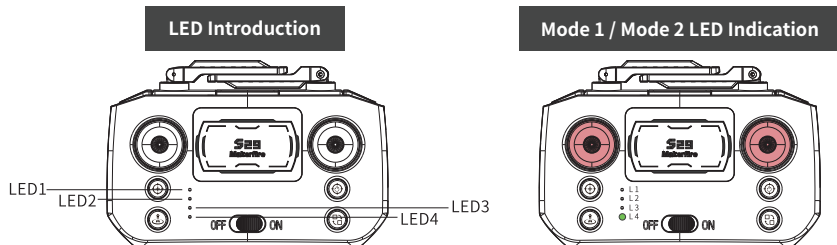
Push the right joystick to the lower-right corner, then press the calibration button once. When the L4 green light turns on, release the joystick to switch to mode 1.

● Status Description

Press the calibration button and push the right joystick to the lower-right corner. The buzzer beeps once, and the remote controller switches to mode 1.

Repeat the same operation to switch back to mode 2. At this time, the L4 green light turns off.

Control- Indicator Status States

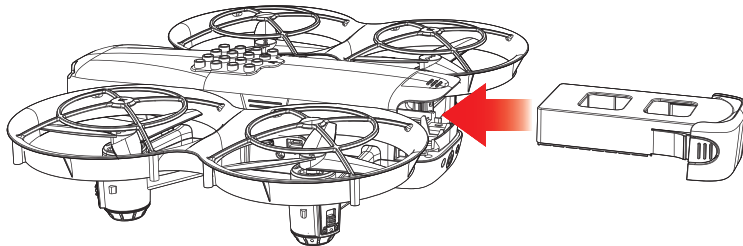


LED	Color	Status	Description
LED1	Red Solid	Controller Battery	Controller battery is low, recharge soon.
	Green Solid		Controller battery level is norma.
LED2	Green Solid	Linking	Linking in progress. Pairing with the aircraft.
	Red Solid	Aircraft Battery	Aircraft battery is low. Land immediately and recharge.
LED3	Off	Communication	Controller is properly connected and communicating with the aircraft.
	Red Solid		Not connected to the aircraft. Check linking or power-on sequence.
LED4	Off	Control Mode	Mode 2 is active (Default).
	Green Solid		Mode 1 is active.

Battery

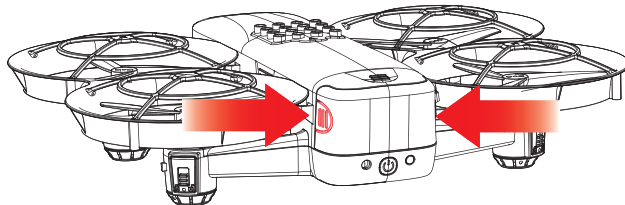
Battery Installation

- Insert the battery with the adhesive side facing downward into the battery port at the tail of the flight controller. Push firmly until you hear a click, indicating that the battery is securely installed.



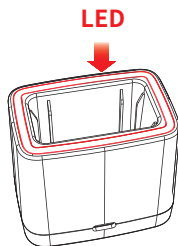
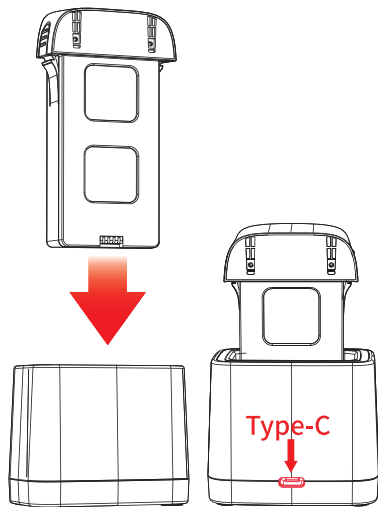
Battery Removal

- Press the buckles on both sides of the battery simultaneously and gently pull it out. Avoid using excessive force to prevent damage to the battery or the compartment.



Battery Charging

Insert the battery into the charging hub, connect with a Type-C cable and a PD 2.0+ adapter. Fully charge in about 1 hour.



LED Status

Status	Indicator
No battery connected	Red and green flashing
Charging in progress	Solid Red light
Charging completed	Solid Green light

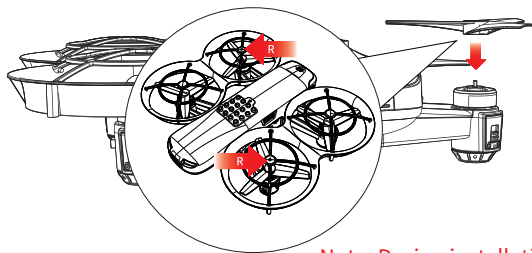
⚠ Precautions

- 1.The Type-C ports on the flight controller and remote controller are for data only and do not support charging.
- 2.Always use the included special charging hub to charge the battery.
- 3.Immediately stop using the battery if it is exposed to water, is swollen, leaking, emitting odor, damaged, or shows any other abnormality.

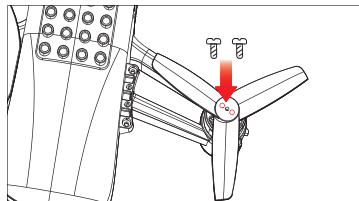
Propeller

Propeller Installation

① To install, align the center of the propeller with the motor shaft and press down firmly until secure.



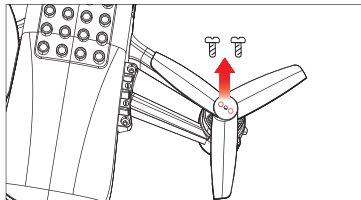
② After installing the propeller, fasten it firmly with the two included screws.



Note: During installation, ensure the R (Right) propeller is correctly positioned.

Propeller Installation

To remove the propeller, first unscrew the fasteners using a screwdriver, then gently detach the propeller from the motor.

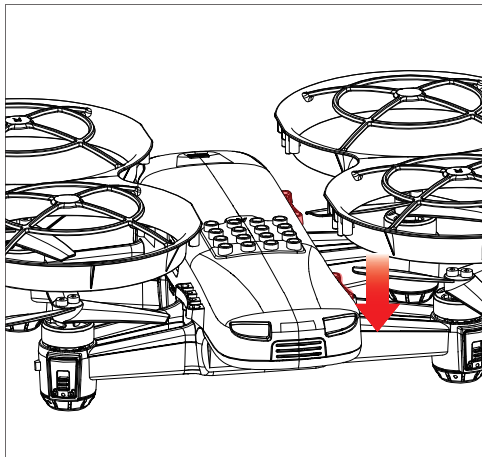


⚠ Precautions

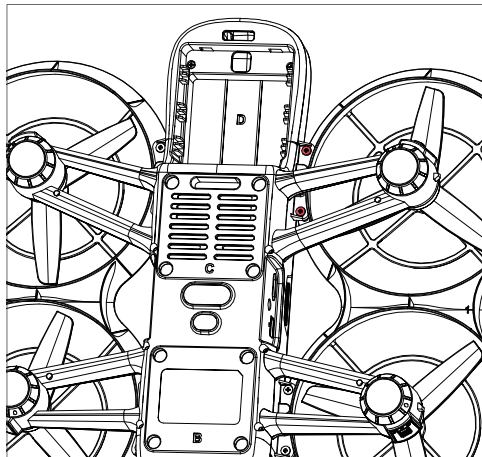
Avoid forcibly removing the propeller, as this may cause damage to the aircraft or result in personal injury.

Propeller Guard

① After installing the propeller, align the propeller guard with the mounting slots and secure it in place.



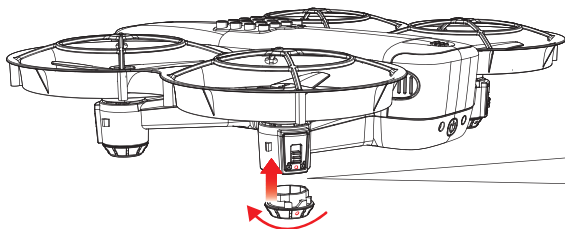
② After installing the propeller, align the propeller guard with the mounting slots and press or fasten it securely into place.



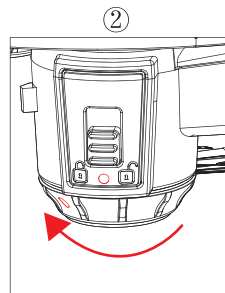
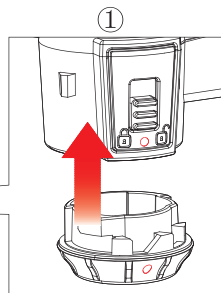
Foot Pad

Propeller Installation

① Align the ● mark on the foot pad with the ● mark on the motor base.

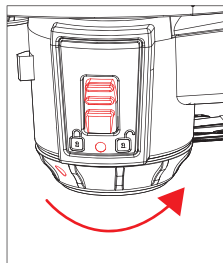


② Insert it, then rotate until aligned with the ☐ mark.



Propeller Installation

To remove, lift the buckle on the motor base upward and rotate it to align with the ☐ mark.



Flight

1.Aircraft

Power On/Off & Status Indicators

To turn On/Off: Press and hold the power button for 2 seconds after assembly.

Startup sequence:

Tail light flashes green and blue once.

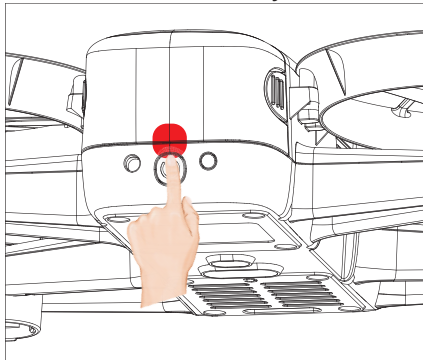
Red solid light indicates waiting for startup.

Blue flash indicates startup complete — now in standby mode.

Connection status:

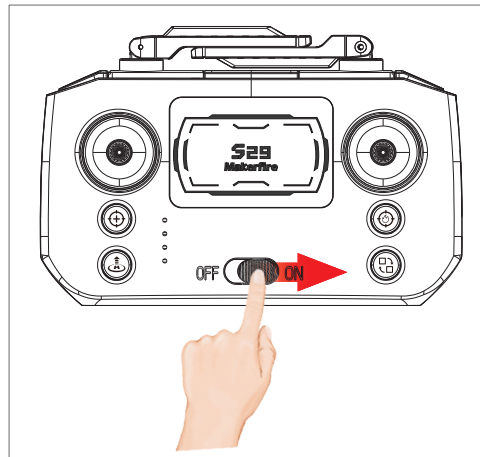
● Red slow flashing: Not connected to controller.

● Green solid: Connected normally.

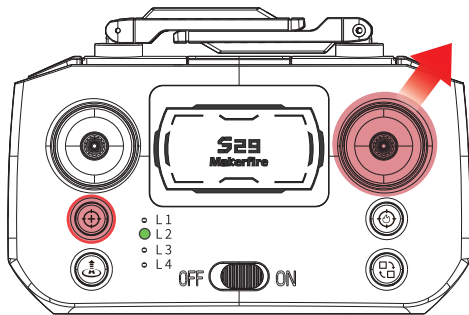
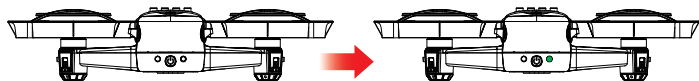


2.Remote Controller

To turn on the remote controller, slide the power switch to the right. To turn it off, slide the switch to the left.



Pairing



● Operation Method:

To enter pairing mode:

Push the right joystick to the upper right corner.
Press the calibration key once.
Wait until the L2 green light turns on.
Release the joystick.

● To power on the aircraft, press and hold the "Power" button.

If the aircraft is not connected to the remote controller, the rear indicator will flash red.

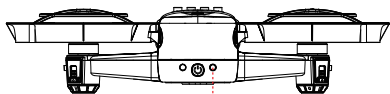
● Status Description:

- ① Press the calibration key + push the remote controller's right joystick to the upper right corner, the buzzer emits a "beep" sound, and the remote controller enters the pairing mode.
- ② In the pairing mode, the L2 green light is always on. When the pairing is completed, it goes off, and the aircraft's tail light turns green at the same time.

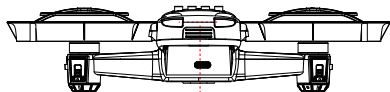
● Exit Pairing:

Press any key to exit the pairing mode.

Pairing



Tail Light



Head Light

Type	Item	Status	Description
Tail / Head Light	Power on	Power on	Green and blue flash once Solid red light: waiting for startup
Tail Light	Detection	Self-check + Calibration	Blue light flashes once
	Power	Low Battery Warning	Red light flashes quickly
	Connection	Not Connected to Device	Red light flashes slowly
		Normal Connection	Solid Green light
	Memory	SD Card Storage Full	White light flashes continuously
	Error	Serious faulty	Orange light is always on
		Sensor Error (Such as Gyroscope, Optical Flow, Barometer, TOF)	Orange and green lights flash alternately
		Gimbal Disconnected	Orange and red lights flash alternately
	Control	Joystick Control	Green light flashes continuously

Operation Guide

Download APP “LiteBee”



Android



iOS

APP and Programming

Connect to the Aircraft

Open the App → select your aircraft → enter manual control mode to access the main interface.

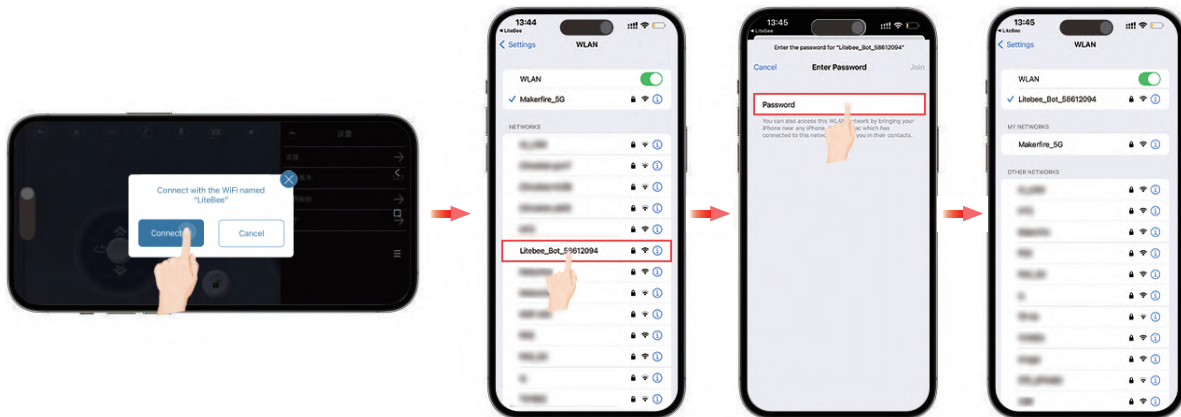


Operation Guide

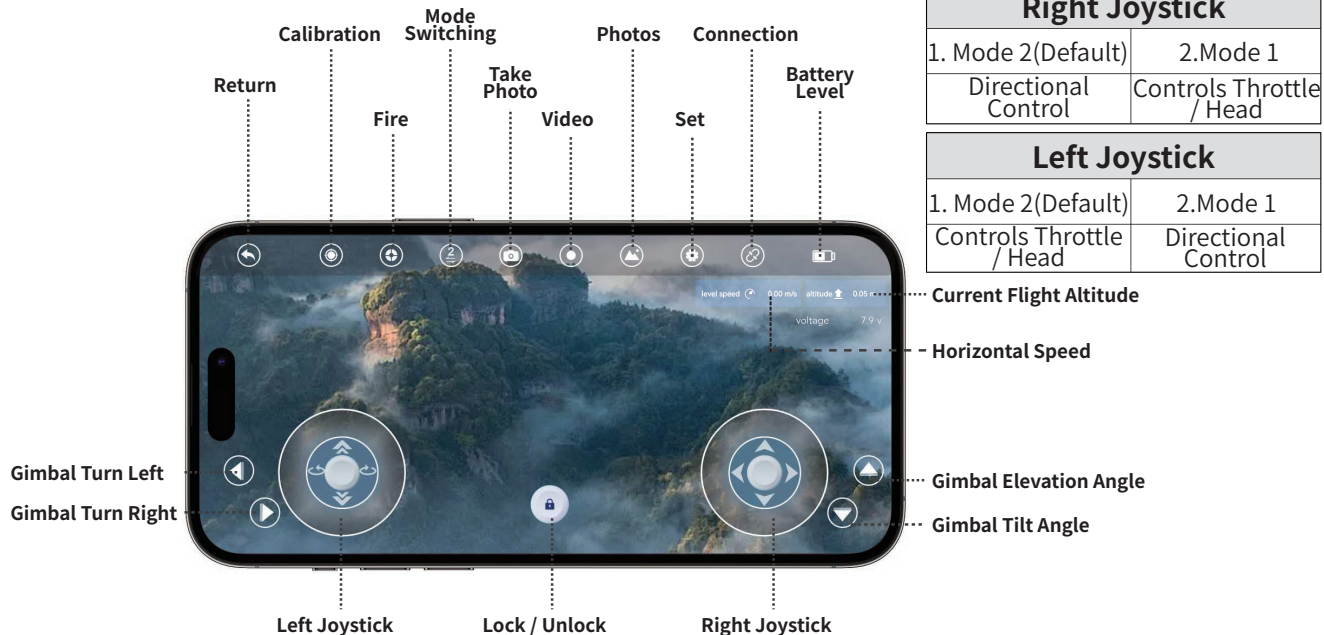
Connect to the Aircraft

Click the connection button in the upper-right corner to display a prompt.

- ① Click "Confirm" on the prompt interface to automatically jump to the WLAN page.
- ② Select the WIFI starting with "LiteBee Bot", enter the password "12345678" and confirm.
- ③ After the connection is completed, click the upper left corner to return.



Function Introduction

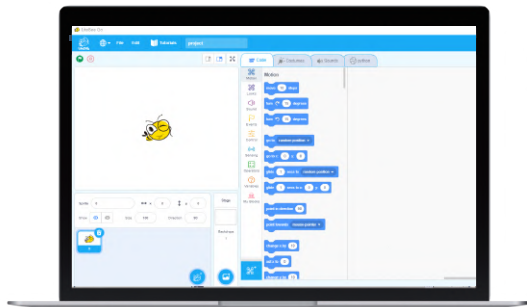


Programming

For more programming guides, you can visit www.litebee.com or scan the QR code to get more information.



Mobile device programming: Search for WIFI and connect to it. Then enter the programming interface in the APP.



Disclaimer

This product is a multi-rotor aircraft, recommended for children aged 8 and above. Children under 8 must use this product under adult supervision and be particularly cautious in environments with children.

Before using this product, please carefully read this document. This statement provides important guidance on the safe use of the product and your legal rights. Under normal power supply and undamaged components, the product offers a smooth flying experience. Be sure to read this document thoroughly before use to understand your legal rights, responsibilities, and safety instructions, as well as potential risks of property damage, safety accidents, and personal injury during use. By using this product, you are deemed to have understood, acknowledged, and accepted all terms and conditions of this statement. Users are responsible for any consequences arising from improper operation. Users agree to use this product only for lawful purposes and comply with these terms and any related policies or guidelines set by the company. The company is not liable for any direct or indirect personal injury or property damage caused by failure to follow these safety guidelines.



Disclaimer:

Not suitable for children under 8 years old, as it contains small parts that pose a choking hazard.



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LiteBee Website