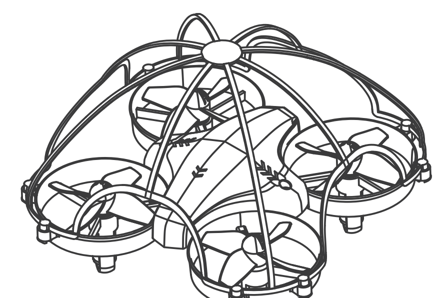
APEX
Coding Drone



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NO.66BL

User Manual

Product Parameter

Name	Coding Drone
Model	AT-66BL
Color	Yellow
Type	Four-rotor
Battery	3.7V Replaceable battery
Channel	Four channels
Motor	ϕ6(615)
Power Mode	Electric
ChargingTime	40-50Mins
FlightTime	6-7Mins
Control range	10-15 Meter/50Meter
Communication Method	Bluetooth Control
Body Weight	23.5g
Product Size	80*80*34mm
Accessories	Quadcopter, Battery, Blades, Charging cable, User manual
Applicable age	Children over 12 years old
Color box size	125x118x69mm
Outer box size	575*400*380mm 72/ctn
Function	App Bluetooth control, the latest six-axis gyroscope, indoor and outdoor anti-wind design, anti-collision design, games, programming, headless mode, three-speed adjustment

APP application and description

• App download and installation

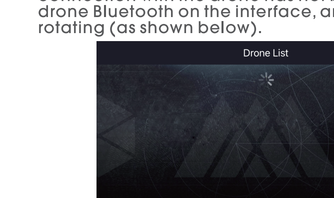
Download the App according to your mobile phone system model, as follows:
1. Android system (support Android 4.4 and above)
Method 1: Scan the QR code in the browser and download the App.
Method 2: Download and install the App in the Google play store, search for the keyword: AT-66BL".
2. Ios system (support IOS 10.0 and above)
Method 1: Scan the QR code to download
Method 2: Please go to the App Store to download and install the App,
Search keyword: "**AT-66BL**".

Android App Download

IOS App download

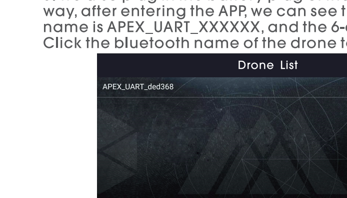
• Bluetooth connection:

1. Enter the AT-66BL APP for the first time, because the Bluetooth connection with the drone has not been set up, there is no available drone Bluetooth on the interface, and the white refresh circle will keep rotating (as shown below).



2. Click the setting button on the phone to enter the setting interface, then find the "Bluetooth" setting, and click Enter to turn on Bluetooth.
Note, do not pair the drone on the Bluetooth interface. After turning on the Bluetooth of the mobile phone, immediately switch back to the APP interface to connect

3. We also plug in the battery plug of the drone to turn on the drone. In this way, after entering the APP, we can see the bluetooth name of the drone. Its name is APEX_UART_XXXXXX, and the 6-digit end number is a different code. Click the bluetooth name of the drone to connect, as shown below:

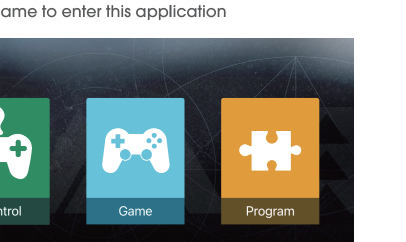


Bluetooth connection

APP application and description

• Enter APP

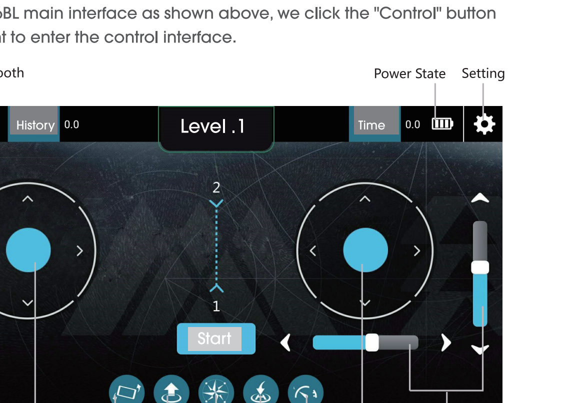
Click the Bluetooth name to enter this application



(Enter the main interface of AT-66BL for the first time)

• Control interface

In the AT-66BL main interface as shown above, we click the "Control" button on the right to enter the control interface.



(As shown in Pic.03)

APP application and description

• International function description

Remote sensing control:
The drone is based on American hand, that is, the left stick is the throttle stick, and the right stick is the direction stick

Throttle control:
Push the left throttle stick above the neutral position and the drone will rise. Push the throttle stick below the neutral position and the drone will descend. When the throttle stick is in the neutral position, the drone will maintain the same altitude.

Steering control:
After the drone is lifted off, the throttle stick on the left shakes towards left and right, and the drone will turn left and right accordingly.

Left and right, front and rear flight control:
After the drone takes off, the direction stick on the right can control the left, right, forward and backward flight of the drone. The direction stick swings left and right, and the drone flies left and right. The direction stick swings forward and backward, and the drone flies forward and backward.

Gravity sensor:
When it is inconvenient to use the push rod of the direction stick. You can click the second icon at the bottom of the control main interface to enter the mobile phone's gravity sensing mode. In this way, we turn the mobile phone and use the mobile phone's built-in sensor to sense the direction of the earth's gravity to control the flying direction of the drone.

One key to take off, one key to slow down:
After unlocking, click the one-key takeoff/slow landing icon at the bottom of the control main interface, and the drone will rise to a height of about 1 meter above the ground and hover. Click the button again, the drone will automatically land to the ground and stop flying.

Headless mode:
Click on the headless mode icon, and the icon will light up to enter the headless mode. At this time, the direction of the drone's head is the front of the headless mode. Click the headless mode icon again. When the icon becomes dark, headless mode is exited. In the headless mode, no matter where the drone's head is turned to, it is the front.

One key return:
When the rear of the drone is pointed at the operator, press the one-key return icon, the drone will automatically return to the home point. Press this icon again to end the return. Shaking the the front and rear directions stick , it will also end the return.

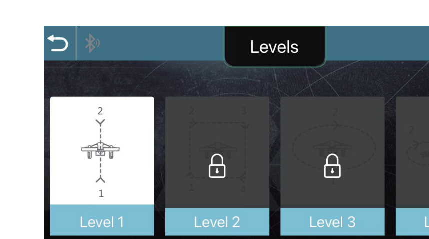
Speed switching:
Short press the speed switch icon to adjust the flying speed of the drone. There are three gears in total. The pointer on this icon will switch between L, M, H corresponding to low speed, medium speed, and high speed.

Fine tuning function:
After the aircraft is lifted off, when the aircraft deviates in one direction without operating the stick, use the fine-tuning button to correct the drone movement in the opposite direction.

APP application and description

• Game interface

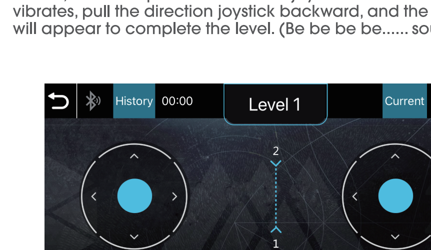
In the main interface of AT-66BL as shown above, we click the "Game" button in the middle to enter the control interface.



(Game interface)

Clearance: The drone has a total of four levels, and the difficulty of each level increases. You can complete the game level according to the voice prompts

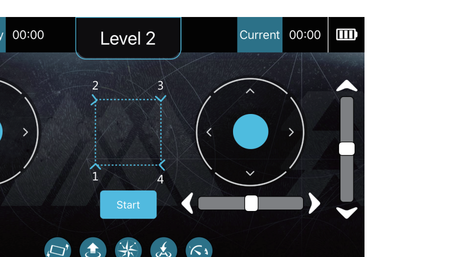
The first method: After taking off the drone to stabilize in the air, click the start button, and then push the direction joystick forward. After the mobile phone vibrates, pull the direction joystick backward, and the victory prompt sound will appear to complete the level. (Be be be be...... sound means failure)



The first level interface

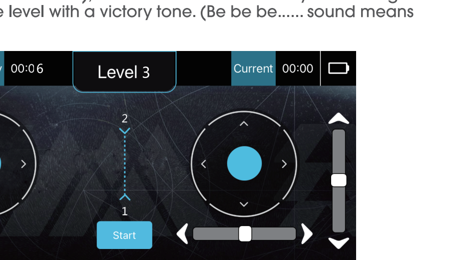
APP application and description

The second pass method: After taking off the drone to stabilize in the air, click the start button, and then push the direction joystick forward. After the mobile phone vibrates, push the direction joystick to the right. After the mobile phone vibrates, push the direction joystick backwards. After the mobile phone vibrates, push the direction joystick to the left and the victory tone will appear to complete the level. (Be be be be...... sound means failure)



(Level 2 interface)

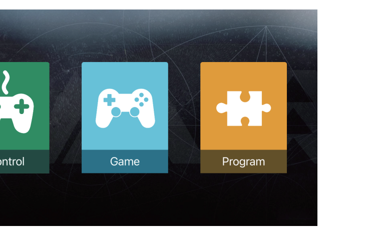
The third pass method: After taking off the drone to stabilize in the air, click the start button, then push the throttle stick to the right, and at the same time push the direction stick to the front (this action needs to be performed at the same time), and the drone will rotate fly towards right and complete the level with a victory tone. (Be be be...... sound means failure)



(Level 3 interface)

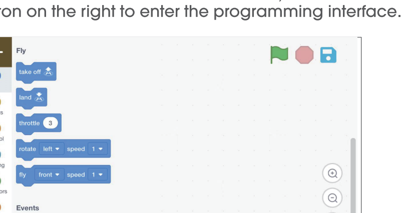
APP application and description

• Programming interface



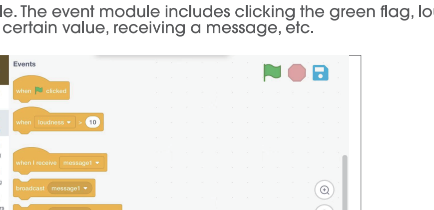
(The main interface of AT-66BL after the drone is successfully connected)

1. In the main interface of AT-66BL as shown above, we click the "Program" button on the right to enter the programming interface.



(Programming main interface)

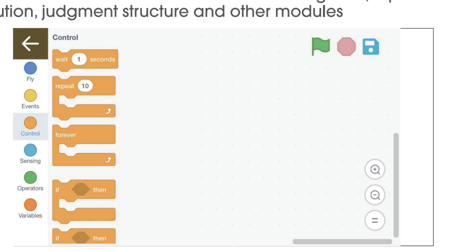
2. Flight module. As shown above, the flight module has take-off, landing, throttle, steering and other modules
3 . Event module. The event module includes clicking the green flag, loudness greater than a certain value, receiving a message, etc.



(Event module)

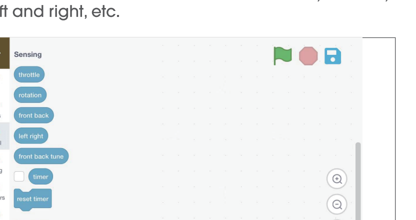
APP application and description

4. Control module: The control module has waiting time, repeated execution, judgment structure and other modules



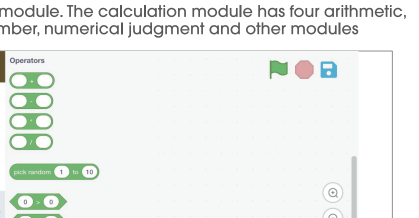
(Control module)

5. Detection module: The detection module has throttle, rotation, front and rear, left and right, etc.



(detection module)

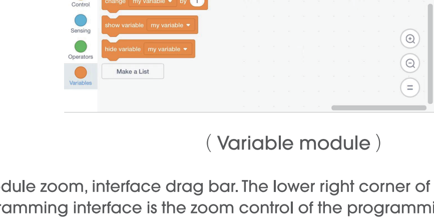
6. Calculation module. The calculation module has four arithmetic, random number, numerical judgment and other modules



(calculation module)

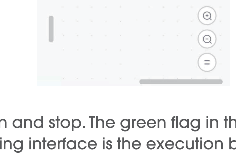
APP application and description

7. Variable module



(Variable module)

7. Module zoom, interface drag bar. The lower right corner of the main programming interface is the zoom control of the programming module, which is easy to zoom in and out, and the programming module is easy to read. The plus sign is the zoom-in icon, the minus sign is the zoom-out icon, and the equal sign is the icon back to the default size. The horizontal and vertical interface drag bars are convenient to drag this interface and read the programming module



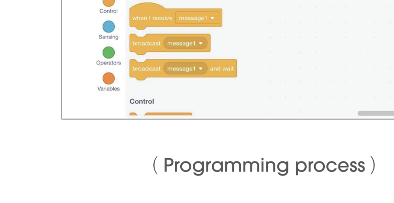
(Module zoom icon)

9 .Execution and stop. The green flag in the upper right corner of the main programming interface is the execution button of the module programmed in the current interface. The red graphic is the stop button, click it to stop the execution of the programmed module.

(Module zoom icon)
(Module save icon)

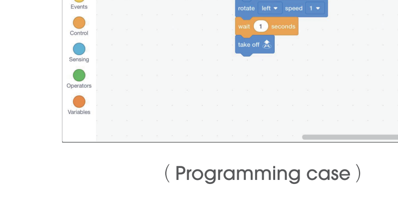
APP application and description

10 .Perform programming. First, click the programming module category on the left. For example, click the time category in the figure below. Then hold down another programming module, drag it to the blank interface on the right, and then drop it. For example, when the green flag is clicked and dragged to the right of the module, this completes the programming of a module



(Programming process)

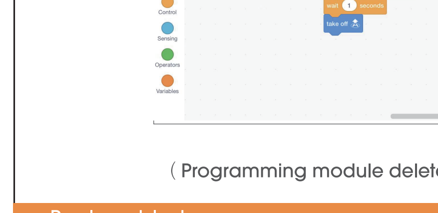
Then repeat this process, drag other required programming modules to the previous right module and get stuck. The case as shown in the figure below:



(Programming case)

APP application and description

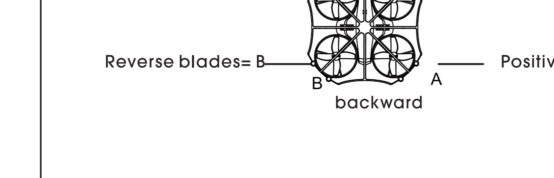
11. Delete the programming module. If some programming modules are used incorrectly, they can be deleted from the main programming interface. The operation method is as shown in the figure below. For example, if we want to delete the "Landing" programming module, drag the module to the left interface, and then drop the programming module in this area, the module will be deleted.



(Programming module delete interface)

Replace blades

To make the best function, please double check the blades regularly. once damaged please replace with new one.
1.When replacing the blades, make sure the color and direction are matched.(A is for positive blade, B is reverse blades)
2.Important: Please check carefully as follow picture showed, do not change the wrong blades



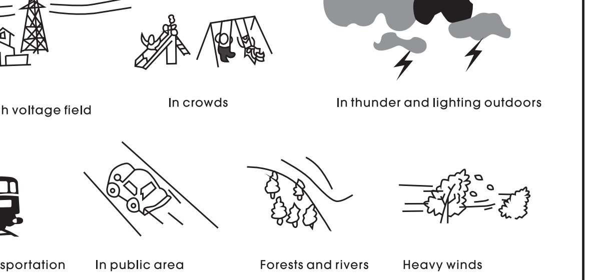
Important statement

1.This drone is only suitable for children over 6 years old. For beginners, it is recommended to practice under the guidance of experienced one.
2.The Drone's blades revolve at high speeds and can cause damage to the users ,spectators and animals. Stay away from the drone to reduce the risk of getting hurt.
3.Factory is not responsible for any accidents during flight .
4.Any questions for operating,repairing ,please contact local after-sale service.

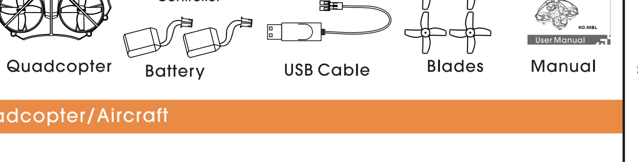
Cautions:
1.Checking the surroundings before flying.
2.Do not let the drone fly out of your sight.
3.Parental supervision recommended when flying the Drone.
4.Please make sure no other player is using the same frequency as yours.

⚠ warning
*Please check the charger,wire,plug,shell and parts regularly. Once damaged, please replace before flying.
*Please always use the original charger provided by factory.
*Please always turn off the controller and unplug drone power while clean the product.
*Parental guidance is recommended when installing or replacing the batteries.
*Batteries or battery packs must be recycled or disposed properly.
*Turn off the controller and unplug drone power when not in use.
*Please do not hit or drop the drone and controller .
*Please keep and read this instruction manual carefully.

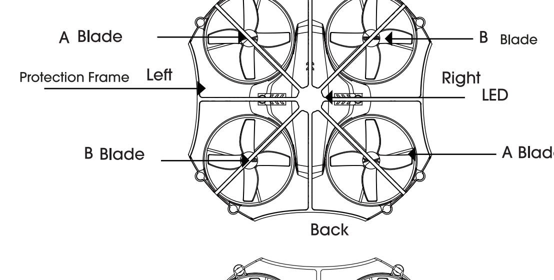
Don't fly the drone in below conditions

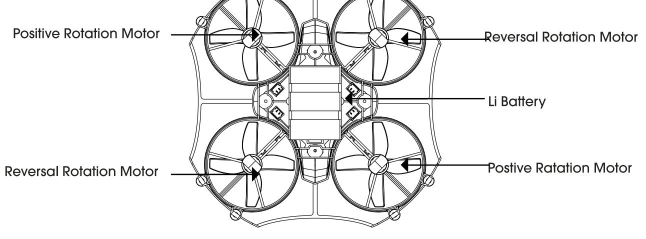


Standard Component

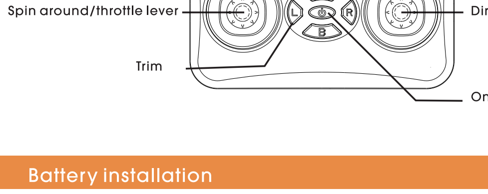


Quadcopter/Aircraft





Controller instruction



Battery installation

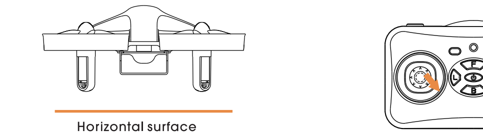
*Open the battery door with a screwdriver.Install new batteries as shown in the polarity diagram(+/-) inside the battery compartment. Tighten the battery door.
Caution:
a、Please make sure the battery is installed correctly .
b、Please remove used batteries ,do not mix the battery with different type.

Calibrating the drone

Step one
Turn on the controller and the drone power ,Put the drone in a flat surface , once you heard a "beep"sound, pair is completed.
Importance:Please always put your drone in a flat surface.

Step two
After pairing,move the throttle to the right corner,hold this until the drone's LED flash about three seconds, calibration is completed when LED turns solid bright.

⚠WARNING
Please take out the battery when the drone is not in use .
Note: It may cause damage to controller if battery is not removed .



Aircraft Operation Guide

Before you fly the drone, pls do some flight simulation practice.

Strictly prohibited to operate the aircraft before understanding its operational requirements. Please read instructions first, get familiar with requirements of various control procedures, keep repeating training until you can control various movements skillfully.
1. Put the aircraft in an open area, move the aircraft nose forward (tail to yourself).
2. Practice operation of each rocker on the remote control (each operation method is given in pictures below). Practice throttle height, left and right rotation, front and back and left and right side flying operation repeatedly.
3. Flight simulation is very important, please repeat practice until fingers can naturally follow the instructions, accurate movement and control without hesitation

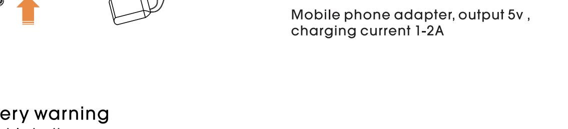
Throttle (Top position) Low position(zero position)	Ascent / Descent	Push the throttle lever up , drone will fly up. Push the throttle lever down, drone will fly down.
Spin around	Turn left / Turn right	Push the throttle lever to left, drone will turn left. Push the throttle lever to right, drone will turn right.
Flight forward and backward	Fly forward / Fly backward	Push the direction lever up, drone will fly forward. Push the direction lever down, drone will fly backward.
Left and right side of the fly	Moves to the left / Moves to the right	Push the direction lever left, drone will fly to left. Push the direction lever right , drone will fly right.

Charging

1.Take off the battery from the vehicle. Connect the battery with a USB cable . Plug the USB cable into a mobile phone adapter or a computer.
2.The charging indicator will blink when charging,once charging completed ,the indicator will off .

⚠ Caution

When you hear a "beep、beep、beep" sound in flying, the battery is in short, please charge your drone.



The battery warning

Rechargeable battery:
Please disposal the rechargeable LiPo battery properly according to local law.
Please disposal the rechargeable LiPo battery properly according to local law.
2 pieces "AAA" battery are needed for Controller ,please read below warnings carefully.
●Do not mix the battery with different type .
●Do not mix the battery with used one.
●Do not charge non-rechargeable battery.
●Please remove the rechargeable battery from the Drone before you charge it .
●Parental supervision recommended when charging the battery.
●Please install the battery as shown in the polarity diagram(+/-) .
●Do not throw the battery into fire, it may cause leakage and explosion.

⚠ Caution

LED indicator	
light off○	light on☼
charge completed	charging

Charge specifications		
input	charging current	full voltage
5V	600mA	4.2V ±0.03V

Cattery and charge specification			
battery type	battery specification	usage duration	charge time
Lithium batteries	3.7V	aircraft flight time	about30-50mins(charging current approx 0.6A)

Troubleshooting

	Troubles	Causes	Waystodeal
1	Drone does not respond	Paring failed between control and drone	Syncing remote controller and aircraft(refer to P3)
2	Drone does not respond	No battery	Recharge
3	Blades keep moving after landing	Throttle stick not on the lowest position	Make sure the throttle stick is on the lowest position
4	Drones can not take off	1.Blades installed wrong 2.low battery	1.Check and replace the main rotor 2.Recharge
5	Blades moving speed is different after trim	1.blades wrong installed 2.Blades get damaged 3.Calibration failed	1.Blades are not installed well 2.Replace the blades 3.Calibration the drone refer to P3
6	Drone can not fly after drop	1.Blades get loosed 2.Blades get damaged	1.Tighten the blades 2.Replace the blades

FACEBOOK **YOUTUBE**

Email:intisarshakiyla50@gmail.com

⚠ warning:
Not suitable for children under 6 years old

MADE IN CHINA

AP-IM-66BL-EN-03