Please scan the QR code below and download the APP of CHUBORY F89 Foldable Drone.

iOS

Android

Please scan the QR code below and watch the operation guide video before start the flight.

WARNING : F89 drone is controlled by Wi-Fi,the control distance is about 120m, and the external environment will affect the Wi-Fi signal, please learn how to operate before your flight, and control the flight distance gradually. If you have any questions, please contact us.

AGE 14+

CHUBORY®

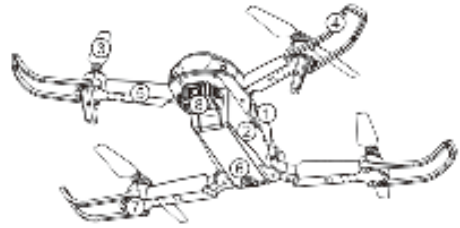
CHUBORY F89 Foldable Drone OPERATING MANUAL

F89

*Please read this manual carefully before operation and keep it properly for future reference.

KNOW YOUR DRONE

With 2.4G frequency band for long remote control distance, Drone allows multiple flights at the same time without any interference. User can control it to fly, hover and take photos/ videos with APP and WIFI connection on smart phone.



① Upper Casing
② Lower Casing
③ Propeller
④ Protective Guard
⑤ Arm
⑥ Battery
⑦ Motor
⑧ Camera

ACCESSORIES

DRONE x1
(Battery Included)

Remote Control x1

Backup Propellers x2

USB Charger x1

Screwdriver x1

User Manual x1

Notes

Please check the number of accessories carefully (as shown above).Please provide proof of purchase and contact the store for replacement if any missing parts.

OPTIONAL ACCESSORIES LIST

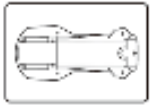

Propellers


Launch board


Motor


Receiving board


Upper Casing


Lower Casing


Battery


Protective Guard

Notes

If any of the above accessories are damaged during operation, you can contact the seller to purchase.

PRE-FLIGHT PREPARATION

1.FLIGHT ENVIRONMENT

Indoor: Spacious spaces away from barriers, crowds or pets are preferred.

Outdoor: Sunny, windless and breezy weather is preferred.

Please keep the drone in sight during the flight and keep it away from barriers, high-tension cables, trees and people.

Do not fly in extreme environment, such as hotness,coldness, strong wind or heavy rain.

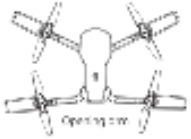
2.OPEN THE WINGS

OPENING STEPS

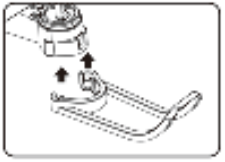
① Open the front arm(close to camera)

② Open the back arm

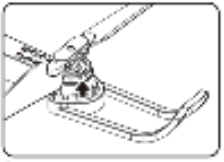
Fold the back arm firstly and then the front arm when folding



3.ASSEMBLING PROTECTIVE GUARD

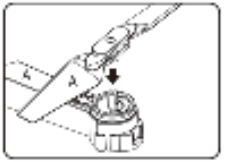


① Align the protective guard with the two holes below



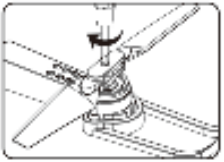
② Press firmly on the arrow position.

4.ASSEMBLING PROPELLERS



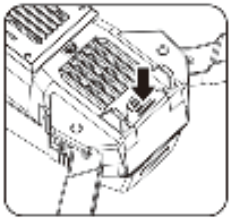
① Correspond the Propellers with the nuts of the crankshaft

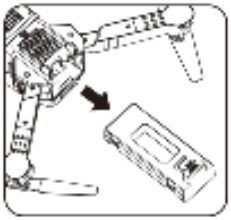
(The arm identification is consistent with the Propeller identification)



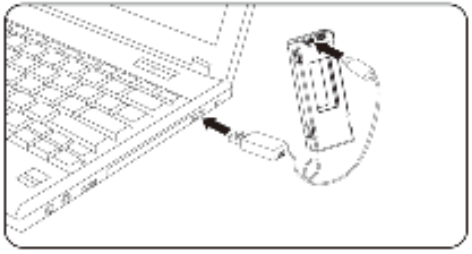
② Tighten the screws clockwise.

5.BATTERY CHARGING FOR DRONE





A. Remove the lithium battery from the bottom of the drone.



B. Connect USB charging cable with the charging interface of the lithium battery.

Notes

The LED light lights up red when charging, and lights up green when fully charged.
Charging time is about 80–100 minutes.

⚠ BATTERY INSTRUCTIONS

- There is a certain risk when using lithium battery. It may cause fire, body injury or property loss. Users must be aware of the risks and take full responsibility of using battery improperly.
- If battery leakage occurs, please avoid contacting your eyes or skin with electrolyte. Once it happens, please wash your eyes with clean water and seek medical care immediately.
- Please remove the plug immediately if you sense any peculiar smell, noise or smog.

Battery Charging

- Please use the charger from original factory to ensure your safe usage.
- Do not charge alkaline or dry-warm battery.
- Do not over charge battery. Please unplug the charger once fully charged.
- Do not charge the battery next to inflammables, such as carpet, timber floor or wood furniture or on the surface of electro-conductive objects.
  Please always keep an eye on the battery when charging.
- Do not charge battery which not cool down yet.
- The charging temperature should be between 0°C to 40°C.

Battery Recycling

- Do not dispose the battery as daily rubbish. Please familiarize yourself with the local garbage disposal method and dispose it according to the special requirement.

KNOW YOUR REMOTE CONTROL

1.Parts of remote control

① Antenna
② Left side fly fine-tuning
③ Left joystick
④ One-key Ascend
⑤ One-key Landing
⑥ Power switch
⑦ Backward fine-tuning
⑧ Forward fine-tuning
⑨ Right joy stick
⑩ Right side fly fine-tuning
⑪ Headless Mode
⑫ High/low speed
⑬ One-key Flips&Rolls
⑭ One-key calibration

LITHIUM BATTERY INSTRUCTION

① Open the remote control battery cover

② Remote control battery installation

Open the battery cover and insert the 3 AA batteries correctly according to the electrode instructions.(Batteries not included)

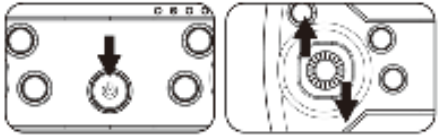
Notes

1.Make sure the battery are loaded correctly according to the polarity indications on the battery compartment.
2.Please do not mix old and new batteries together.
3.Please do not mix different types of batteries together.

SIGNAL CONNECTION OF TRANSMITTER AND RECEIVER

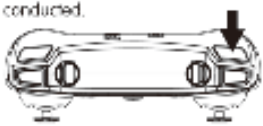
① Turn on the drone and place it on a level surface,the indicator light of transmitter and the LED of drone flashing.

② Push the throttle joystick to the highest point then push back to the lowest point,and when you hear two beeps, the indicator light of transmitter and the LED of drone become normally on, the signal connection as completed.



TRANSMITTER CALIBRATION

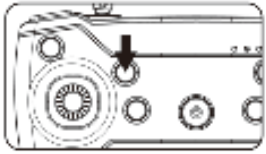
Apply transmitter calibration when the drone fails to take off vertically. Press the "One button calibration" button.When the lights of drone are on and then start flashing and keep on again, the calibration is complete. The drone must be placed on ahorizontal surface in a steady state when the calibrationis conducted.



START YOUR FLIGHT

1. One-key Ascend

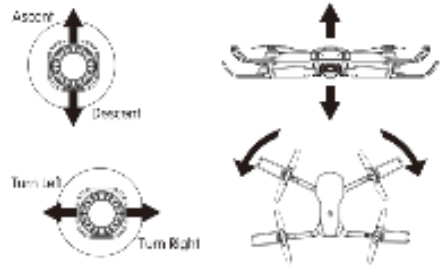
Press the "One-key Ascend" button, the drone blades rotate and automatically fly to a height of 1.5 meters.



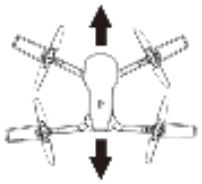
2. Basic Flight

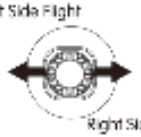
Use the left joystick to control the flight altitude and turn left/right, and the right joystick to control the forward, backward, left and right side flight directions.

Left joystick



Right joystick





Flips & Rolls

When the drone is reaching more than 3 meters high, click "360° flips and rolls" and move the right joystick to a certain direction, the drone will rotate in that direction.

Right joystick

Headless Mode

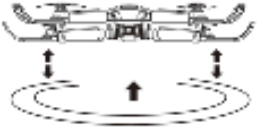
The flight direction of drone is subjected to the direction of remote control.

1. When drone adjust the frequency, the drone is default as common mode. Then the indication light of drone is normally on. When you press the headless function key of remote control, the remote control beeps once and enters headless state. When you press the headless function key again, you listen to a long beep sound and the drone exits the headless mode.
2. In the headless state, operator doesn't need to identify the direction of nose, but control the drone according to the operating lever of remote control.

Hover

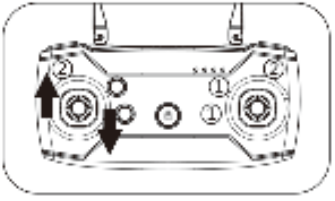
When you release the left joystick (throttle) after the ascent/descent action, the drone will hover at a certain height.

Left joystick



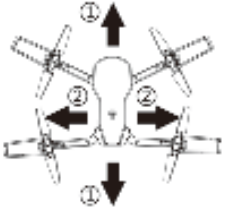
FINE–TUNING FUNCTION

When deviating from course, click "Fine–tuning" for calibration until the drone is back to normal.



① Forward/Backward Fine–tuning

② Left/Right Side Fly Fine–tuning



Notes

When the drone is within 30cm from the ground, it will be affected by the blade vortex made by itself and become unstable. This is 'ground effect'. The lower the drone is, the greater the effect will be.

FAQ

PROBLEMS	CAUSES	SOLUTIONS
Control failure	Not connect with the quadcopter battery	Connect the quadcopter battery in right way
	Too strong wind force.	Do not fly in windy days. The performance and the control of the quadcopter will be effected by the strong winds.
Fail to ascend	The rotation speed of main blades is too slow.	Push up the throttle stick.
	The battery of the quadcopter is not fully charged.	Always full charge the quadcopter.
Landing too soon	The throttle stick is pulled down too fast.	Pull down the throttle stick slowly to perform a smooth landing.
Out of control	Beyond the effective controlling distance	Ensure operation within the controllable distance: remote control at 100 meters and WiFi control at 40–50 meters

SOFTWARE INSTRUCTIONS FOR USE

- Software installation instructions
- Warm tips
- Operating interface
  - (1) Introduction of operating interface
  - (2) Steering mode
  - (3) Interface mode
  - (4) Other function icons
- MV interface

SOFTWARE INSTALLATION INSTRUCTIONS

1. Installation of mobile phone App

Please scan the QR code below to download the mobile phone App; (you can also search"HFun"in the application market for download)

IOS Android

2. Connect WiFi of aircraft

1. Turn on the power supply of aircraft;
2. Find a hot spot of an aircraft in the mobile phone "setting–up – wireless local area network";
3. Click the network (without password), and the mobile phone will be automatically connected.

3. Recommended Model Configuration

1. ios system

Model configuration	Recommended Configuration	Optimal configuration
Product model	iPhone 5S, iPhone SE iPhone 6 and above	iPhone 6S and above
System Version	IOS 8.0 and above	IOS 8.0 and above

2. Android system

Model configuration	Recommended Configuration	Optimal configuration
CPU mode	Jiaolong 630 and above Samsung Exynos 7420 and above Syndicate HelioX25 and above Kirin 950 and above	Jiaolong 635 and above Samsung Exynos 8895 and above Syndicate HelioX30 and above Kirin 970 and above
System Version	Android 5.0 and above	Android 8.0 and above
Memory Size	3G and above	6G and above
CPU Occupancy	Occupancy of 25% and below	Occupancy of 10% and below

• Cleaning up the background program can effectively reduce CPU occupancy.

WARM TIPS (1)

Note: only one mobile App is allowed to connect for an aircraft at the same time.

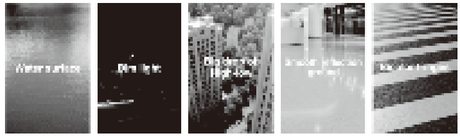
Special Instructions

To ensure a high recognition rate of the camera
1. Please align the camera in front;
2. Please fly in a better light environment;

In the following cases, it leads to a low camera recognition rate
1. Weak light, or reverse light;
2. the WiFi signal is weak, or the signal is interfered.

WARM TIPS (2)

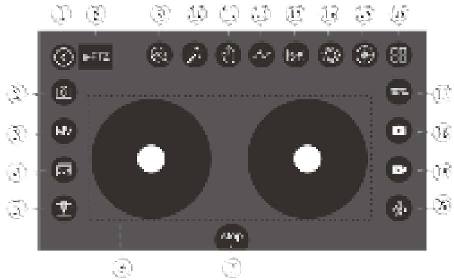
When the aircraft is in the following environment, the fixed-point hovering effect is not good.



Introduction to operation interface

(1) Introduction of operating interface

● In "Airplane Mode", the camera can also be switched by double-clicking the blank with your finger.



In "Flight mode" double click the white space with your finger can change the lens.

1. Back
2. Perspective conversion
3. MV
4. Album
5. Take off/Land
6. Rocker Mode
7. Emergent landing
8. Electronic cloud table
9. 50 Times Zoom
10. Filter
11. Palm control
12. Trajectory flight
13. VR
14. Rotation lens
15. Headless
16. Menu
17. Change Speed
18. Take Photos
19. Shoot Videos
20. Mode switch (Flight mode/Image mode)

OPERATION INTERFACE

(2) Manipulation mode

In this mode, the control panel on the left side controls the aircraft: turn up, down, turn left and turn right;
The control panel on the right side controls the aircraft: forward, backward, go toward left and go toward right;
(Taking left throttle as example), and if the right throttle is set, the left and right control discs function interchangeably.)

In this mode, the control panel on the left side controls the aircraft: turn up, down, turn left and turn right;
The control panel on the right side controls the aircraft: forward, backward, go toward left and go toward right;
(Taking left throttle as example)

- When the thumb touches the mobile phone interface, the steering wheel is displayed; when the thumb leaves the mobile phone interface, the steering wheel is hidden.
- In Setup, the steering mode can be switched.

In this mode, the control panel on the left side controls the aircraft: up and down;
The control panel on the right side controls the aircraft: forward, backward, go toward left and go toward right;
The finger slides left or right at the top of the interface to control the left or right turn of the aircraft, respectively.

In this mode, the control panel on the left side controls the aircraft up and down;
Slide the finger to the left or right at the upper part of the interface to control the left or right turn of the aircraft, respectively;
Finger press and hold the white center in the control panel on the right side, when the handpiece is forward, backward, go toward left and go toward right, respectively
When lifted, the aircraft also flies forward, backward, left and right accordingly;

(3) Other functions, icon 1

change camera ------ 

change camera

Click the (change camera) button to switch the following four functional states in turn:
(1) Normal front camera;
(2) Bottom camera;
(3) Picture in picture; (some models do not support this function)
(4) Split interface. (some models do not support this feature)
When the (change camera) button is not pressed, the normal front camera function defaults.

* Picture-in-picture

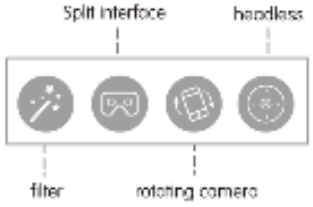
In picture-in-picture, you can view the video reality of the bottom camera of the aircraft in real time;
In the control interface, click to open the pictorial switch, the video interface captured by the bottom camera and the front camera of the aircraft will be displayed;

* Split interface

Under the split interface function, the real-time picture captured by the front camera and the bottom camera can be viewed simultaneously through the interfaces on the left and right sides.

- After picture-in-picture/split-interface opening, if MV mode is entered at this time, MV video of both cameras can be recorded at the same time.

(4) Other functions, icon 2



Headless

In this mode, the original front, back, left and right directions of the aircraft will be redefined;
At this point, the manipulator is directly in front of the aircraft;
For other directions, done in the same manner.

MV INTERFACE

Introduction of MV Interface

* Rotating interface

Click to enable the spin interface function. At this point, the finger slides the rotatable image on the interface; if the finger double-clicks any position of the interface, it can be used in magnifying the image instantly (this function also applies when recording video).

1.Filter
2.Photo album
3.Lever on/off
4.Choose music
5.Turn off MV mode
6.Rotation picture
Take pictures
7.Take pictures
8.Camera
9.Recorded length
10.Recorded progress bar
11.Music length

FCC warning：

1. This device should be installed and operated with minimum distance 20cm between the radiator&your body.

2. 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.

3. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

4. 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.