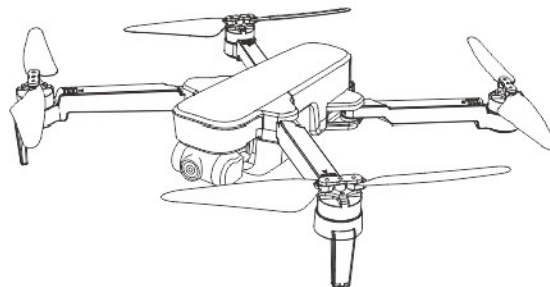# CHUBORY X11 Pro Drone
USER MANUAL

WARNING:

●When taking off , make sure that the operator is 3 meters away from the drone, and keep far away from any crowds and property.

●The players must operate the drone as required by the instructions. Pay attention to the flight safety and understand the accident liability caused by your own negligence!

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

Thank you for purchasing our drone.   Please read all instructions and warnings carefully before operating. Please also keep this instruction manual for future reference and maintenance.

IMPORTANT

1. This product is not a toy. It is a precision device; integrating machinery and electronics with air mechanics and high frequency transmission. It requires correct assembly and debugging to avoid any accident. The user should operate and control this product in a safe manner. In case of incorrect operation, it may cause serious injury or damage property. It can also be lost due to incorrect operation.
2. This product is suitable for who is experiencing in operating drone and age no less than 14 years.
3. In the event of a problem during using, operating, or maintenance, please contact the local sales agent or retailer or keep in touch with the responsible staff of our company.
4. Small parts are included with this product. Please place it beyond the reach of the children to avoid a CHOKING HAZARD or parts being mistakenly swallowed.

INTRODUCTION SAFETY PRECAUTIONS

This R/C flying model can be dangerous when in use, please make sure you keep it far away from any persons or spectators when flying. In-correct installation, poor conditions, or users not familiar with operation may cause damage to the drone or injure people or may cause an unexpected accident. Please pay close attention to flying safety and learn to recognize more dangerous conditions which may cause an accident due to your own negligence.

●Keep it far away from any structures or crowds
This R/C drone may vary slightly in speed or sensitivity while flying and can cause potential danger. Therefore, please keep it far away from crowds, buildings, trees, structures, high voltage wire, etc. Please also avoid flying in adverse weather conditions such as rain, electrical storms, and high winds to ensure safety of the user, any spectators, and surrounding property.

●Keep it away from any moist environment
The inside of the drone is composed of many precision electronic and mechanical parts. Therefore, please try to avoid any moisture or water content from entering the main body of the drone as it may cause a breakdown of the mechanical and electronic parts and thus cause an accident.

●Only operate with included parts for intended use
Please use the original parts for any re-equipping or maintenance to ensure flying safety. Please operate and use only under the scope of the product function permitted, Using un approved parts will void warranty. Do not use for any illegal purpose or use beyond the scope of which your local laws and regulations have stipulated

●Avoid controlling it independently
New users may have certain difficulties during the early stages of learning to operate this drone. Please try to avoid operating the drone alone. When available, always operate this drone under the guidance of a more experienced user.

●Do not operate under the influence of drugs or alcohol
Please operate this R/C drone according to your own state and flying skill. Any fatigue, bad mental state, or incorrect operation may increase the probability of accidental risk.

●Please keep a safe distance from drone when using top speed
When the drone is flying, please keep the drone far from the operator and any surrounding persons or objects so as not to cause danger or damage.

●Store it in a cool, dry place
The R/C drone is composed of material such as metal, fiber, plastic, electronics, etc. Therefore, please keep it away from any heat source and avoid prolonged exposure to direct sunlight. Excessive heat exposure can cause distortion and damage.

KNOW YOUR X-PRO
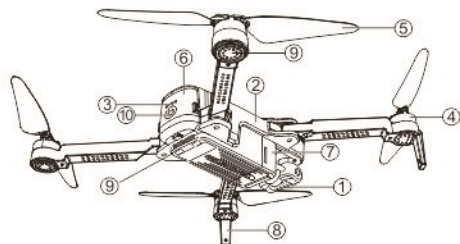
1. HD camera and Gimbal   2. Drone top cover   3. Battery power lights
4. Motor   5. Propeller   6. Lithium battery   7. Drone bottom cover
8. Legs   9. LED lights (Front: white and red/Back: blue and red/Bottom: white)
10. Switch (Depress 4 seconds take on/off)

ACCESSORIES

8811 Drone x1
(battery included)

Remote Control x1
(battery not included)

User Manual x1

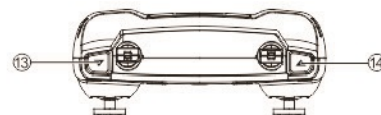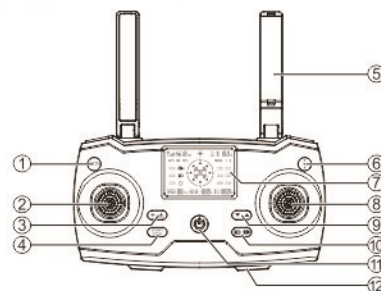WIFI Instruction x1

Screw Driver x1

USB Charging line x1

Extra propellers x4
2 each of L、R

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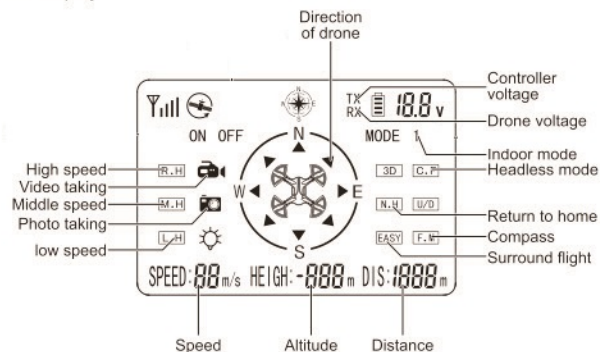replacement if any missing parts.

KNOW YOUR REMOTE CONTROL

Structures of remote control

1. Surround flight
2. Left joystick/3 Speeds
   mode (Press down)
3. Headless mode
   (depress 3 seconds)/
   Return To Home
4. Start (unlock)
5. Antenna
6. Compass
7. LCD display
8. Right joystick/
   Fine tuning
   (Press down)
9. One key ascend/
   descend
   (depress 3 seconds)
10. Photo/Video
    (depress 3 seconds)
11. Power switch
    (depress 4 seconds)
12. Holder for phone
13. Camera upward
14. Camera downward

LCD Display

Direction of drone

Controller voltage

Drone voltage

Indoor mode
Headless mode

Return to home
Compass
Surround flight

High speed
Video taking
Middle speed
Photo taking
low speed

ON OFF   MODE

Speed   Altitude   Distance

LITHIUM BATTERY INSTRUCTION

Remote control battery installation

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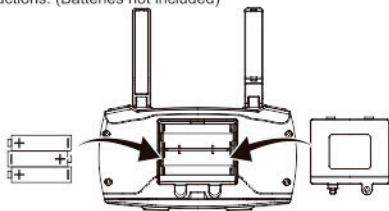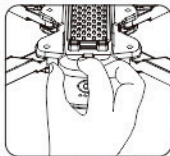

⚠ Note1:
When the remote control is in low power, there is DIDIDI sound. You need to change the battery.
Meanwhile, the LCD screen TX indicates the voltage is less than 3.5V. (Depending on the environment, the value will be vary)
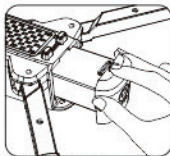Note2:
1. Make sure the battery are loaded correctly according to the polarity indications on the battery compartment.
2. Please do not mix old and new batteries together.
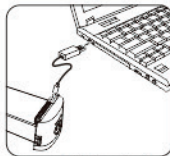3. Please do not mix different types of batteries together.

Battery charging for drone

1. Depress the clip at the bottom of the battery box.
2. Take out battery.
3. Connect lithium battery and USB charging interface by USB charger.

⚠ Note:
1. When the drone is in low power, there is long DIDI sound, and the LCD screen RX indicates the voltage is less than 11V. (Depending on the environment, the value will be vary).
2. When charging, the battery lights flash in turn, four lights all on indicate that the battery is full. After charging, please remove the battery from the USB. Charging time is about 5h.
3. Please take out battery after flying.

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 and 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 dilatant or outworn battery.
- Do not over charge battery. Please unplug the charger once fully charged.
- Do not charge the battery next to in flammables, 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℃ to 40℃.
- Rechargeable batteries are to be removed from the product before being charged.
- Exhausted batteries are to be removed from the product.
- Supply terminals are not to be short-circuited.
- The battery chargers used with the toy are to be regularly examined for damage to the cord, plug, enclosure and other parts, and in the event of such damage they must not be used until the damage has been repaired.
- Non-rechargeable batteries for remote control are not to be recharged.

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.
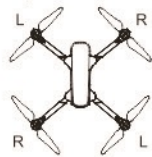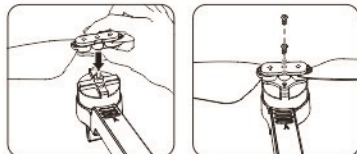
1. Unfold the drone

First unfold the front two arms (Near the camera), then extend the back two arms. When making folding, fold the back arms first, then the front.
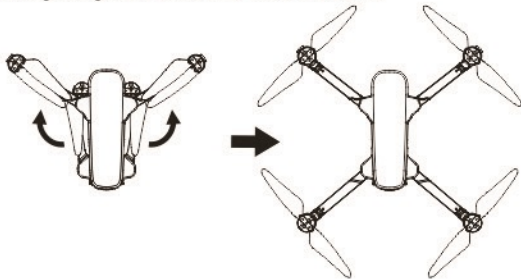
2. Propellers installation
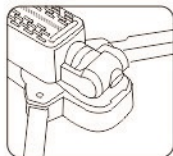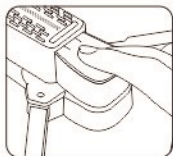

R corresponds to R
L corresponds to L

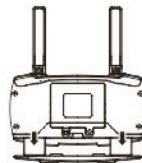Press down the propeller with the crankshaft and screw It.

⚠ Note: When installing or dismantling the propeller, please do not exert force on the propeller to avoid distortion.

3. Open the cover of gimbal

Press the clip of the gimbal cover and remove it.

4. The method to assemble clip on phone

Pull out the holder for phone at the bottom of controller.

Clip the phone.

5. Install APP software and APP operation refer to WIFI INSTRUCTION

### 6. Pairing controller and drone

- Place the drone on a level surface, depress the switch 4 seconds and switch on it, the red LED lights flash.
- Then switch on the controller, the red lights on the drone go out, the white and blue lights start to flash, the pairing between controller and drone is successful automatically.
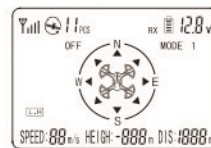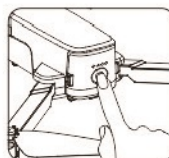
⚠ Note: 1. After switch the drone, if no operation for 5 minutes, the drone will lies dormant and need to restart;
2. If no operation for 10 minutes, the motors will alarm and prompt the operator to shut down.

7. Gyro calibration

Gyro calibration could be applied to ensure drone fly vertically. Push the two joysticks to the right corner in the same time. When there are sounds of DI on controller and the white and blue lights on the drone are quickly flash, then gyro calibration was successful. Drone must be placed on a level surface and remain stationary while calibrating.
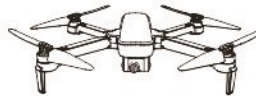
7. Compass (magnetometer) calibration

After Gyro calibration, you need to do compass calibration by two steps, press the compass key, the drone red/white/blue lights begin to flash quickly.

● Keep the drone level and pick up it about 1M height ,then rotate 3 circles, there is a DI sound and front red and white lights on drone will turn to solid, the back lights keep flashing quickly.

● From the bottom, hold the drone face-up about 1M height and rotate it 3 circles, there is a DI sound and front white lights and back blue light start flashing(all the red lights turn off), compass calibration is okay.
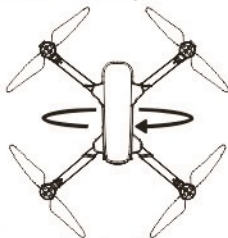
If the GPS calibration is successful before the compass calibration , after the compass calibration, the white and blue lights of the drone will stay on.
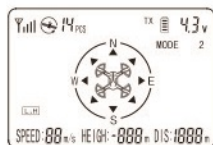
⚠ Note:
　　1. To fly at GPS mode, make sure the GPS signal number is more the 10N/S.
　　2. After succeeding GPS calibration, wait for 2 minutes to take off, the return
　　　 to home will be more accurate.

FLY SAFE

Fly in open areas　　Maintain line　　Fly below 150M
　　　　　　　　　　　of sight

Avoid flying over or near obstacles, crowds, high over voltage power lines, trees, airport or bodies of water. Do not fly near strong electromagnetic sources, such as power lines and base stations, as it may affect the onboard compass.

Do not use the drone in adverse weather conditions, such as rain, snow, fog and wind speeds exceeding 10 m/s or 22/mph.

No fly zone

Stay away from the rotating propellers and motors.

START YOUR FLIGHT

1. Take off and landing

Take off: After compass calibration , press the key "START" to
unlock the drone and push forward the left joystick to realize drone take-off, or just press one key ascend to fly.

Landing: Pull down left joystick to realize drone descending or depress 3 seconds one key descend to land the drone.

2. Basic flight

The left joystick controls the flying altitude and direction change and the right joystick is to control the directions flight.

Left joystick

Ascent

Descent

Turn left   Turn right

Front

Right joystick

Front

Forward

Backward

Front

Left side flight   Right side flight
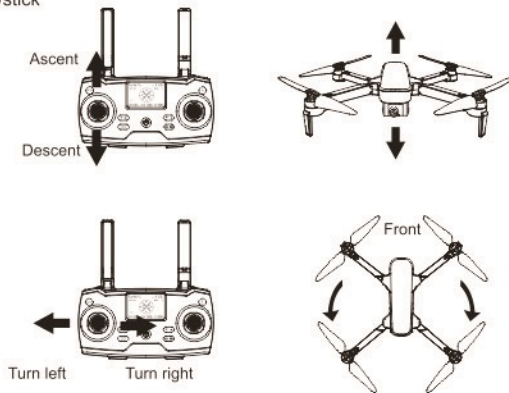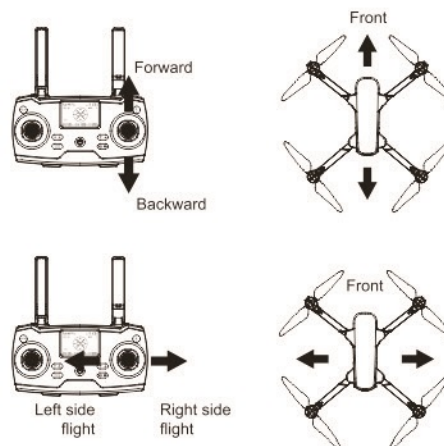
3. Fine-tuning function

● When deviating from course, press down "Fine-tuning" key (Right joystick) for calibration until the drone is back to normal.
● Press down Fine tuning key (Right rocker) then move the right joystick to front, back, left or right to fine tuning the fly direction of the drone.
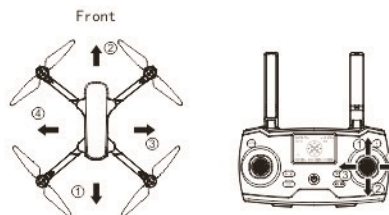
Front

1. Fine tune front if drone drifting back
2. Fine tune back if drone drifting front
3. Fine tune left if drone drifting right
4. Fine tune right if drone drifting left

⚠ Note:

4. Set 3 speeds mode
Press down 3 speeds mode button (Left joystick), you can hear corresponding sounds, the drone is set 3 speeds mode.

5. Headless mode
Depress 3 seconds the "Headless mode" key, the controller make sounds DIDI and blue lights (back) on drone start to flash, drone is now in headless mode, this will lock the drone flying direction, that means no matter which direction the drone will fly, it always remembers the first set direction. Pressing "Headless mode" 3 seconds again, exit this mode.

6. Return to home (RTH)
The return to home (RTH) function brings the drone back to the last recorded home point. The are 3 types of RTH : Smart RTH / Low-battery RTH / Failsafe RTH

Smart RTH
Press the key return to home, there is DI sounds on the controller and the white and blue lights on the drone start to flash, the drone will return to the take off point. Press this key again, exit this mode.

Low-battery RTH
●Low-battery RTH is triggered when the drone battery level is low. The drone will fly back to where away from you about 20 m. You can still control your drone. Pull the joystick down to land the drone in a safe area.
●When the drone is under low voltage, the controller will make long "DIDI" sound, and all the Indicator lights (red, white and blue) on the drone will flash. LCD screen RX indicates the voltage is less than 11V. (Depending on the environment, the value will be vary)

Failsafe RTH
Drone will enter failsafe RTH mode if the signal of the controller is lost, drone fly back to the record point. Rebind the controller to the drone if drone flies into your view. Pull the joystick down to land the drone in a safe area.

7. surround flight
●At flight mode press surround flight key (pic.1), the drone looks for its direction automatically.
●Push the right joystick left front, the drone fly surround counterclockwise. (pic.2)
●Push the right joystick right front, the drone fly surround clockwise. (pic.3)

| Pic.1 | Pic.2 | Pic.3 |

8. Follow me
Follow me function refer to WIFI INSTRUCTION.

9. Way point flight
Way point flight function refer to WIFI INSTRUCTION.

10. Photo/video taking
●Press "Photo" key on controller to take photo.
●Depress 3 seconds "Video" key on controller to start video taking and depress again to finish.
●Players can view photos and videos in APP or save them on the SD card and read them with a card reader. SD card and card reader need to be purchased separately.

WIFI SOFTWARE
INSTRUCTION
(FOR X-PRO)

Software installation instructions

1. Install the APP

Please scan the qr code below and download the mobile App on the corresponding website.

iOS   Android(Google)

2. Connect Aircraft WiFi

(1) Turn on the aircraft power;

(2) Looking for aircraft hot spots " aircraft " in mobile phone "setting-wireless LAN";

(3) Click the network (no password) , and the phone will be connected automatically.

3. The recommended model configuration

(1) iOS

Configuration	Recommended	Optimal (Support 2K)
Product model	iPhone 6 and above	iPhone 7 and above
System version	iOS 9.0 and above	iOS 9.0 and above

(2) Android

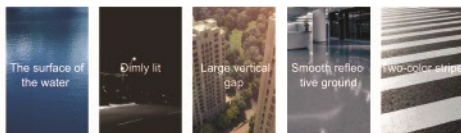| Configuration	Recommended	Optimal (Support 2K)
The CPU model	Snapdragon 630 and above Samsung Exynos 7420 and above Hair division Helio X25 and above Kirin 950 and above	Snapdragon 835 and above Samsung Exynos 8895 and above Hair division Helio X30 and above Kirin 970 and above
System version	Android 5.0 and above	Android 8.0 and above
Memory size	3G and above	6G and above
CPU usage	Occupancy rate of 25% and below	Occupancy rate of 10% and below

Clean up the background program, which can effectively reduce the CPU usage.

Tips: Your mobile Wi-Fi needs to support IEEE 802.11 b/g/n band WLAN.

Warm Precautions

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

Note:When the aircraft is in the following environment, the optical flow of the lower lens is not good enough to hover, which will make it difficult for the aircraft to fly smoothly, and the body will be shaken.

The surface of the water

Dimly lit

Large vertical gap

Smooth reflective ground

Two-color stripe

Control Interface-Home

Turn off the sound

Operation guide   Personal center   Aircraft calibration

I have read and agree to the

Start flying

Operation guide   Personal center   Aircraft calibration   Start flying

18

Control interface-control page

Set up
Holder
MV
Switch lens
Photo/video
Album

More
Satellite WiFi
Battery

Geomagnetic interference

GPS tracking
No UI mode
Surrounding flight
VR
Waypoint flight

SD:500KB/4G

00 30

Empty

Empty

Indoor mode (master follow)

Palm control
Host tracking
AR
50x zoom

Flight status

Back

One-click return

Switch to map

19
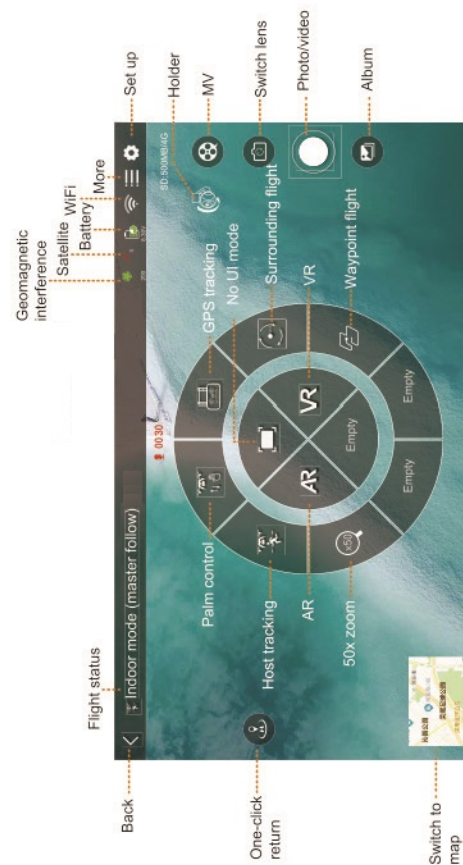
WiFi : Display chart signal strength;

Satellite signals : Represents current flight mode and number of satellites;
Scintillation means that the current mode is the optical
flow point, without the function of returning, following,
circling and pointing.

Battery : The battery status of the aircraft.
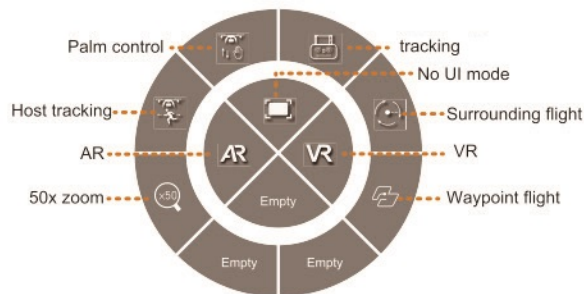(1) 2-4 grid indicates the normal power, which can
operate the returning, following, circling and pointing
flight functions normally in the mode.
(2) 1 grid (flicker state) represents the current low power
state, and the aircraft will perform the automatic
course reversal function. There is no following circling
and pointing flight function in low power state.

Palm control : Click [Palm Control] in optical flow mode, and the aircraft
will follow the palm of your hand to fly up and down. (See
the extension description for details)

Host tracking : Click the button in the optical flow mode, the aircraft will
follow the target person flight. (See the extension description
for details)

AR : Embed AR 3D model in real-time video stream;

50x zoom : After opening, adjust the zoom multiples of the lens view
by adjusting the right slide bar. After the view is enlarged,
the finger slides the visual range of the movable view on
the screen.

tracking : In S mode, click this button and the aircraft will follow
the phone.

No UI mode : Hide non-essential UI controls;

Surrounding flight : the aircraft nose will fly around clockwise
or counterclockwise with the current position of the aircraft
as the center. During the surround process, you can
control the rise, fall, forward, and reverse to adjust.

VR : Click into VR mode.

Waypoint flight : the aircraft will fly according to the location
selected on the map.

Holder : Turn on the front camera pan/tilt controller.

*Expansion description

Human Tracking	Palm Control
(1) Blue candidate boxes for the target person appears on the screen.	(1) Click the [Palm Control] button in the optical flow mode;
(2) On the screen, tap your finger to select the target character.	(2) Facing the camera lens, raise one hand horizontally;
(3) After the target person is locked, the blue box will turn red. Make sure the red box target character is in the middle of the screen.	(3) When the palm is in the red frame on the App, move the palm gently;
(4) The tracking flight starts when the aircraft is about 2m away from the target figure. If the target character is lost, you need to click the target character again.	(4) At this time, the aircraft will follow the palm of the hand to fly up and down;
When the red frame is more than 80% of the human area, the best effect can be achieved.	When the distance between the palm and the camera is about 1m, the control effect is best.

Control interface-function description (I)

⚓ ·········· One-click return   One-click return: In S mode, click to return home with one key.

⊛ ········· MV   MV: Click the button to open the MV interface.

📷 ········· Switch lens   Switch lens: The front lens and the lower lens can be switched.

◯ ········· Photo/video   Photo/video: Click the button to take a photo according to the current lens (front lens or bottom lens); long press the button to switch to camera.

🖼 ········· Album   Album: Can view photos and videos.
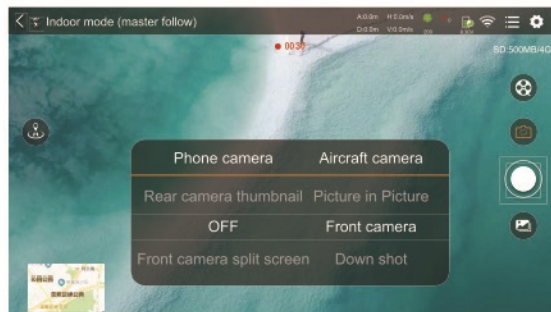
22

*Multi-lens function description

📷 Switch lens

Camera switching and multi-lens window : (Some models support)
In the expanded button, you can freely switch the drone's top and bottom camera, picture-in-picture. (4K lens Wi-Fi aircraft does not support);
And combined with the mobile phone camera to realize the free combination of multiple windows.
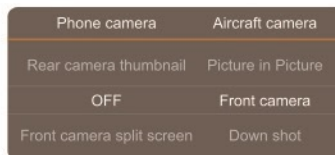
Phone camera	Aircraft camera
Rear camera thumbnail	Picture in Picture
OFF	Front camera
Front camera split screen	Down shot

📷 Switch lens

Click the "switch lens" button to switch the following 3 functional states successively:

   (1) ordinary front lens;
   (2) shooting;
   (3) painting within painting;

If the button "switch lens" is not clicked, the default function is normal front-lens function.

Phone camera	Aircraft camera
Rear camera thumbnail	Picture in Picture
OFF	Front camera
Front camera split screen	Down shot

*PIP (Picture in picture)
In the picture in the picture, you can view the video reality of the camera under the aircraft in real time;
On the control page, click to open the "draw in picture" switch, the lower lens of the aircraft and the video screen captured by the front lens will be displayed together.
(The 4K lens Wi-Fi aircraft is not supported.)

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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.

*Joystick and PTZ

Holder

After the aircraft takes off, the holder will be displayed on the left side of the screen. At this time, if you move the slider upward, the front lens of the aircraft will move upward by a certain angles; if you move the slider down, the front lens of the aircraft will move downwardby a certain angle.

Rocker

The left rocker can control the upward, downward movement, left and right turn of the aircraft, and the right rocker can control the forward, backward movement of the aircraft, and it can also move the aircraft towards the left and right.

Share
After clicking [icon] in the upper right corner of the screen on the control page, enter the album interface. When you click to view a photo or video, users can share photos or videos to major social platforms through [icon] in the top right corner.

*Gesture Recognition

Facing the front lens of the camera, the following gestures can be triggered to trigger the automatic camera or camera function of the aircraft:

Take Photos by Yeah Gestures About 2m in front of the camera of the aircraft, hold the Yeah gesture with one one hand flat. After the aircraft successfully recognized the gesture, the countdown of 3 seconds began to take photos;

Shoot Videos by Palm Gestures About 2 meters in front of the aircraft lens, with five fingers and one hand flat; After the aircraft has successfully recognized the gesture, the video will start.

When the gesture is recognized again, end the recording (The time difference between two recognition should be more than 3 seconds);

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* Special Instructions

To ensure that the lens gets a higher recognition rate:
1. Please aim the lens face to face;
2. Please fly in a good light environment;
3. Please conduct gesture recognition operation at a distance of about 2m from the lens.

In the following cases, it will result in a low lens recognition rate:
1. Weak light or backlight;
2. The WiFi signal is weak or the signal is disturbed.

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*MV interface

Click the button on the right [icon] side of the screen on the control page to enter the MV interface. In the MV interface, you can shoot music videos.

Operating lever
Photo album   Revolve lens   Choose music

Filter   Background wall

Rotate the picture
Taking pictures
Camera
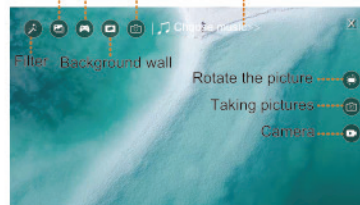
Rotating picture
Click this button to enable the Rotate Screen feature. At this point, the finger swipes on the screen to rotate the image; if the finger double-clicks anywhere on the screen, the image can be magnified in an instant (this feature also applies when recording video).

*Choose music

Return to the MV interface

Music list

Search music

Downloaded

local music

my collection

Absolute
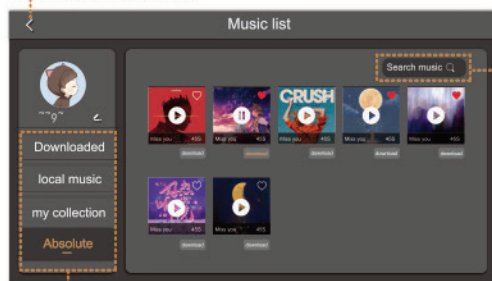
Slide down to choose
more types of music