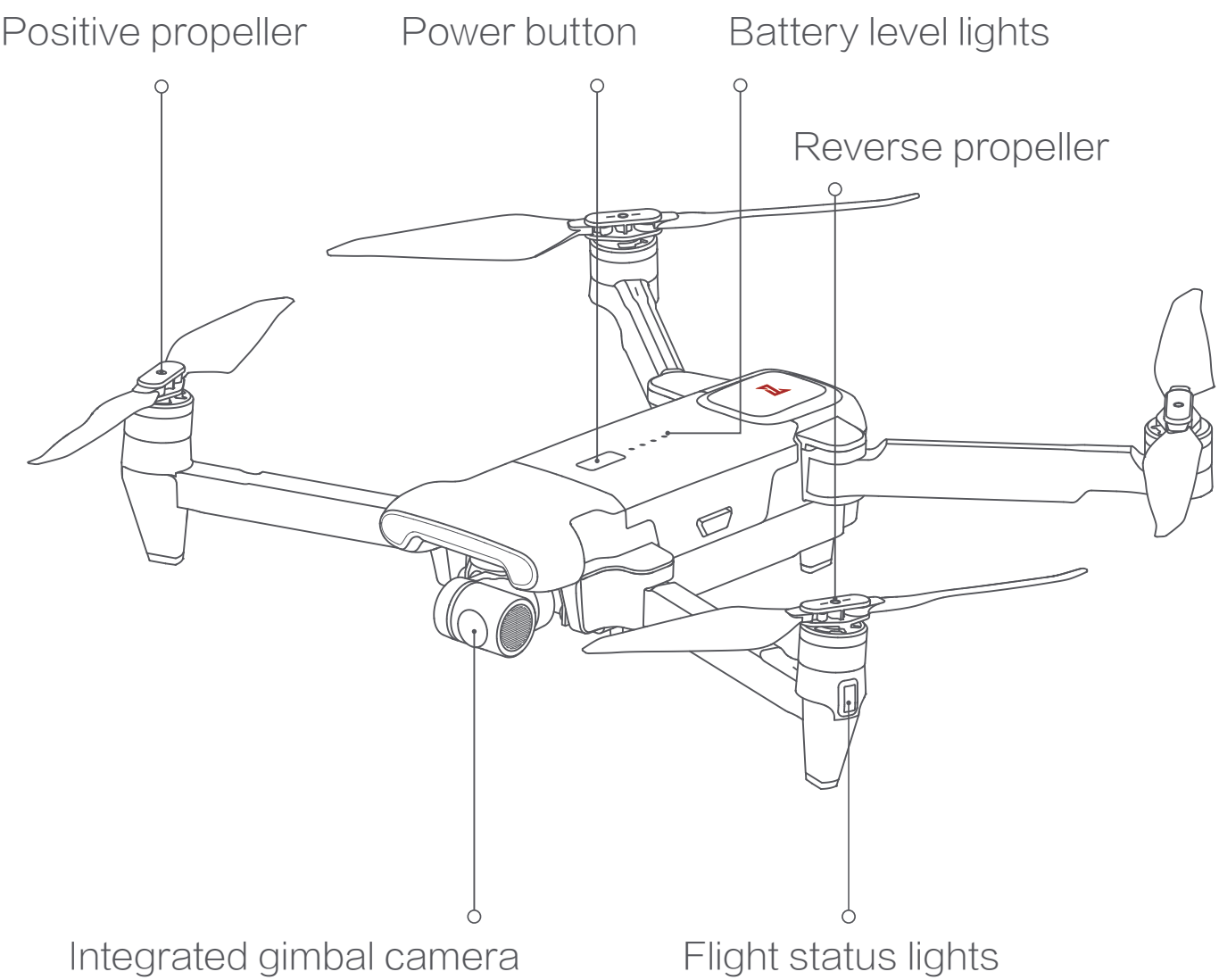
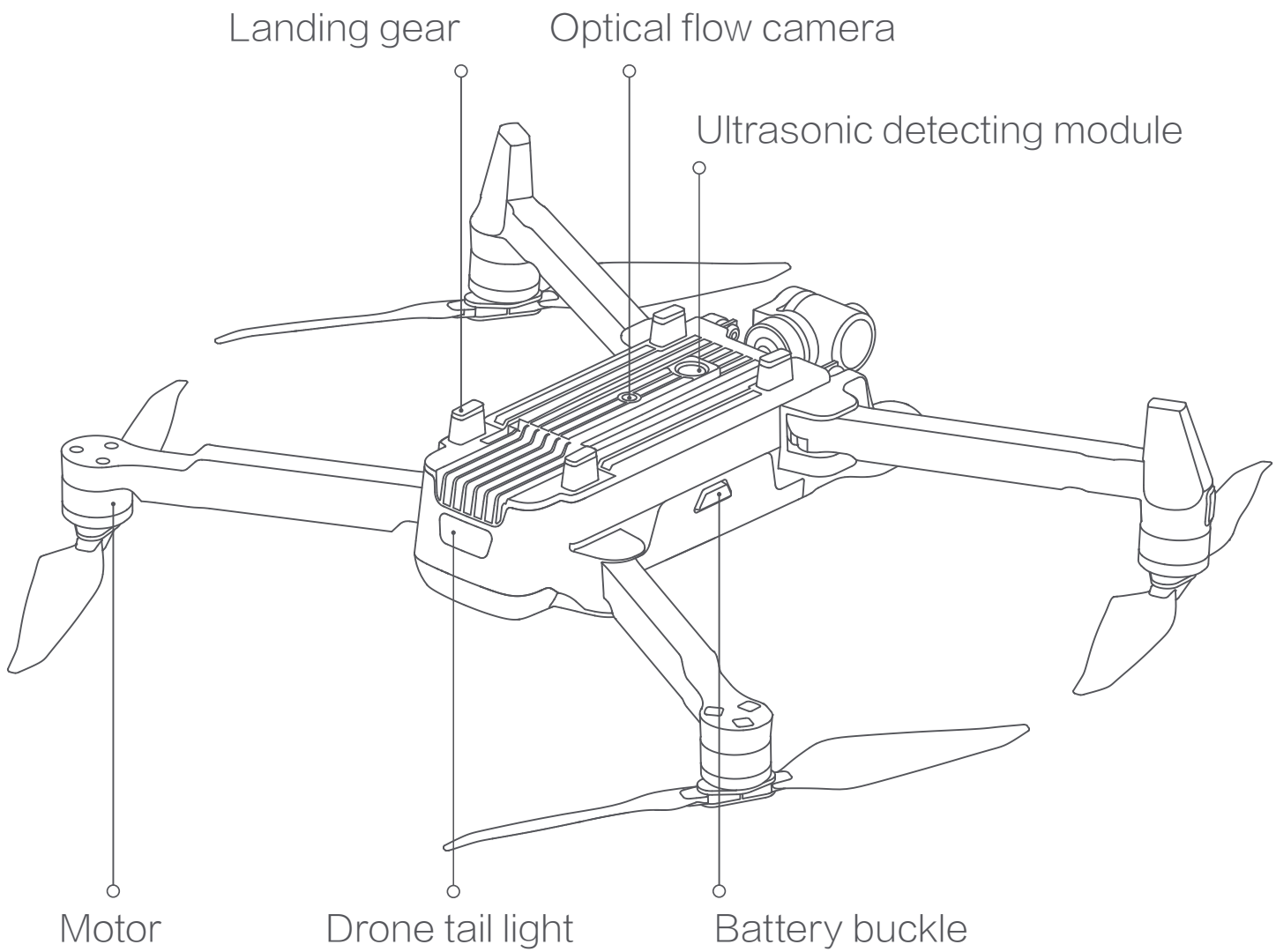
FIMI X8 SE 2020 Drone Quick Start Manual

Please read the quick start manual carefully before using and keep it for future reference.

Product Introduction

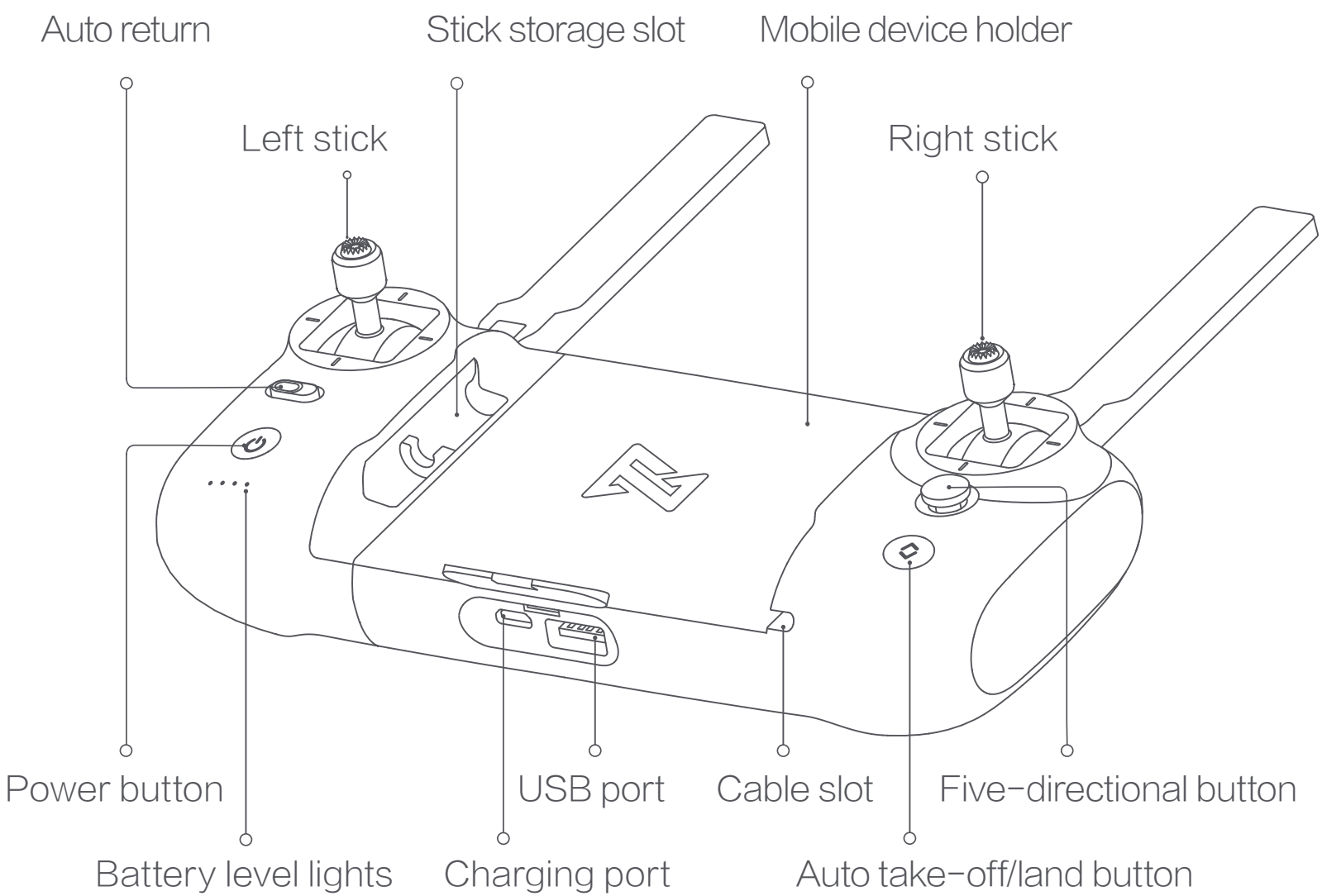
1 Drone

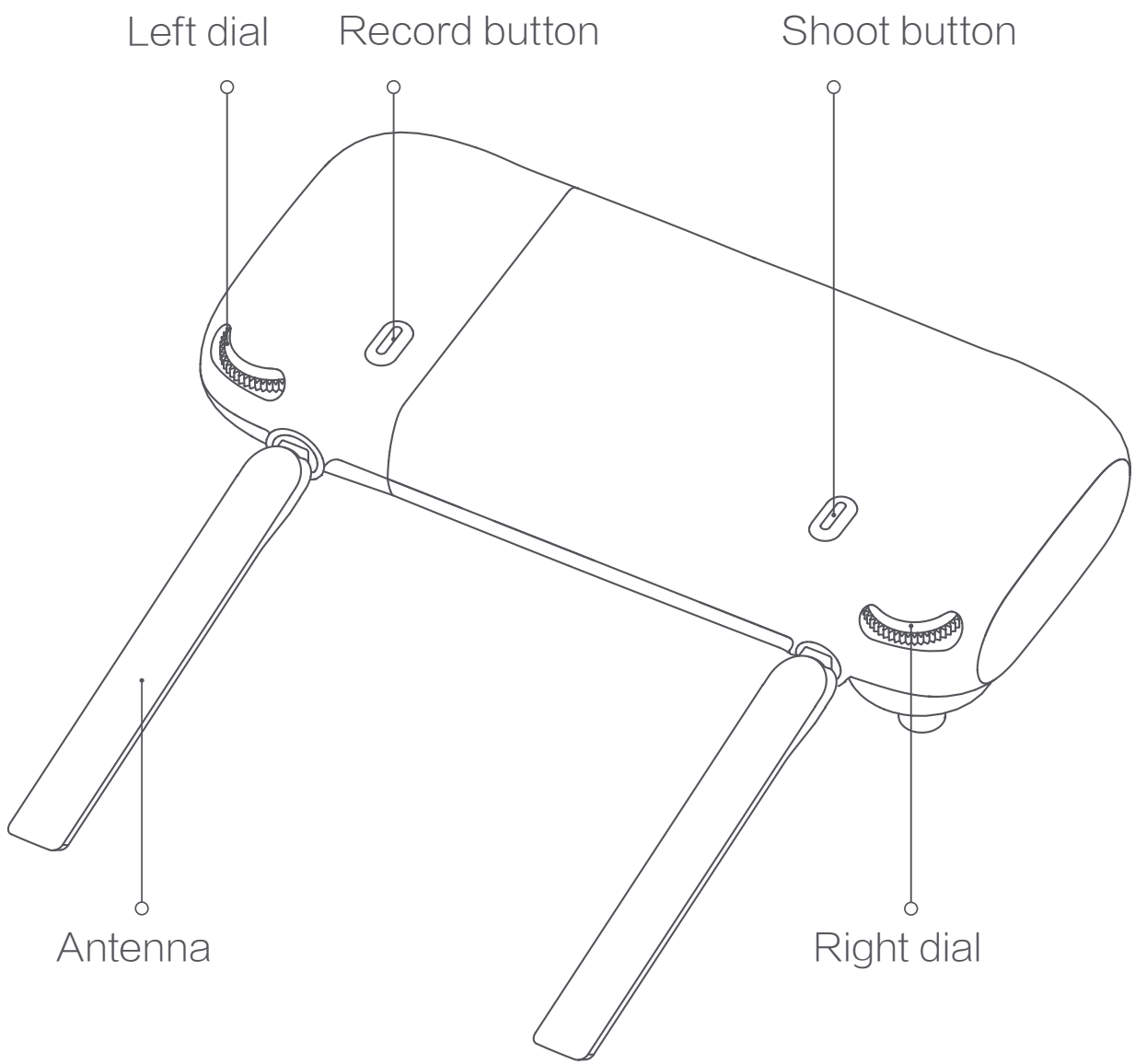



Landing gear
Optical flow camera
Ultrasonic detecting module
Motor
Drone tail light
Battery buckle

Product Introduction

2 Remote controller

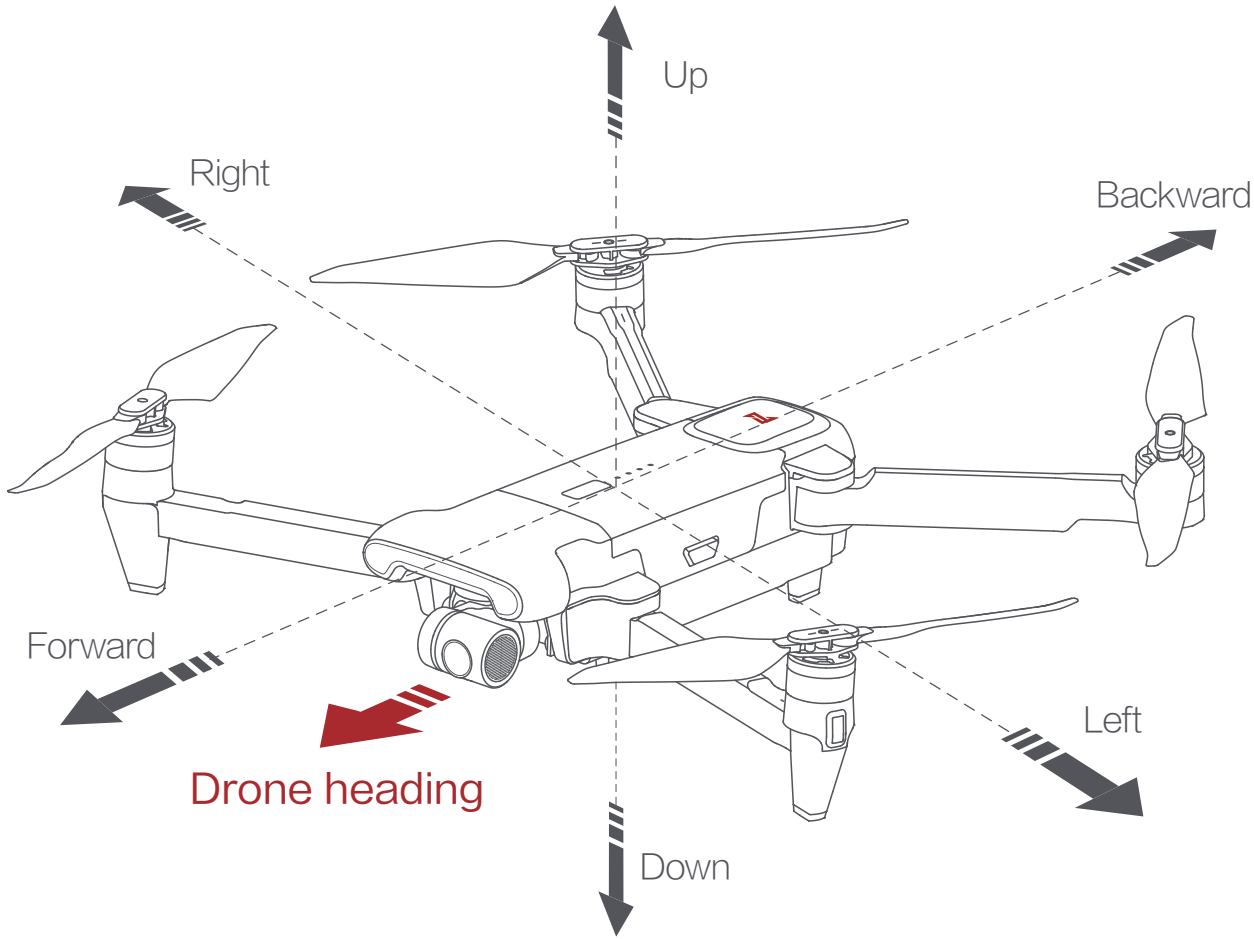


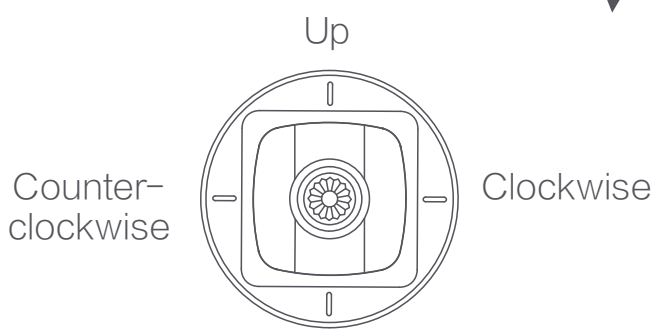

Left dial
Record button
Shoot button
Antenna
Right dial

Function Introduction of RC

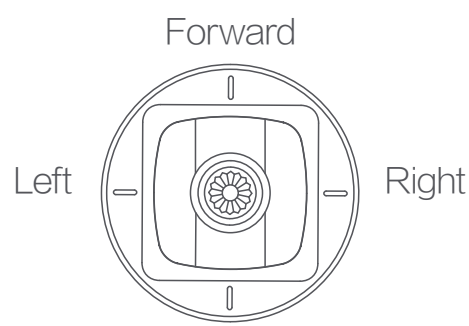
	Buttons		Function description
1	Left stick		Push stick upward, the drone goes up; pull stick downward, the drone goes down; toggle stick to left, the drone rotates counter-clockwise; toggle stick to right, the drone rotates clockwise
2	Right stick		Push stick upward, the drone flies forward; pull stick downward, the drone flies backward; toggle stick to left, the drone flies to left; toggle stick to right, the drone flies to right
3	Auto return		Toggle the button to the left, switching to normal flight Toggle the button to the right, switching to auto return
4	Auto take-off/land button		long press 2 seconds to auto take off/landing
5	Shoot button		short press to start / stop shooting
6	Record button		Short press to start /stop recording
7	Five directional button	Up	Default to switch between map / FPV
		Down	Default to switch between gimbal center/down
		Left	Default to turn on / off battery info interface
		Right	Default to turn on / off self-checking interface
		Center	Default to turn on/off media library
8	Left dial		Adjust the pitch angle of gimbal
9	Right dial		Adjust the value of EV / ISO
10	Power button		Short press to view the battery level Short press+long press 2 seconds to power on / off

Note: The other functions of the five-directional button can be set in the FIMI Navi app.





Left stick



Right stick

Note: The stick mode can be set in FIMI Navi app (the default is American hand).

Basic Specification

Drone

Product model: FMWRJ03A6
Dimensions: 204×106×72.6mm
Diagonal size: 372mm
Take off weight: About 765g
Flight time: About 35min*
Max ascending speed: 5m/s
Max descending speed: 4m/s
Max flight speed: 18m/s
Satellite positioning systems: GPS/GLONASS
Hover accuracy:
Vertical:±0.1m (Within the ultrasonic detecting range)
±0.5m (when GPS positioning is active) Horizontal: ±1.5m
Operating temperature: 0° C ~ 40° C
Suitable altitude: ≤5000m
Operating frequency: 5.725-5.850GHz

Remote controller

Net weight: About 373g
Dimensions: 203.8×91×46.6mm
Operating frequency: 5.725-5.850GHz
Type: Rechargeable lithium battery
Capacity: 3900mAh
Nominal voltage: 3.7V
Input: 5 V ⎓ 2A
Max transmission distance: About 8000m*
Operating temperature: 0 ~ 40° C
Suitable altitude: ≤5000m

Charger

Rated input: 100-240V~50/60Hz 1.5A
Rated output: 13.05V ⎓ 3A
Rated power: 39.15W

Gimbal

Controllable rotation range: 0° ~ -90°（Pitch）
Angular vibration range: ± 0.005°
Lens: FOV 80°
Camera aperture: f2.0
Camera focal distance: 3.54mm
Equivalent focal distance: 26mm
Sensor: 1/2.6" SONY CMOS
Effective pixels: 12M
ISO range: 100 - 3200
Shutter speed: 32 ~ 1/8000s
Max video resolution: 3840 x 2160 | 30fps | 25fps | 24fps
Max birate: 100Mbps
File system: FAT32 / exFAT
Image format: JPG，JPG+DNG
Video format: MP4
Memory card type: Micro SD (U3 and above) 8 ~ 256GB

Battery

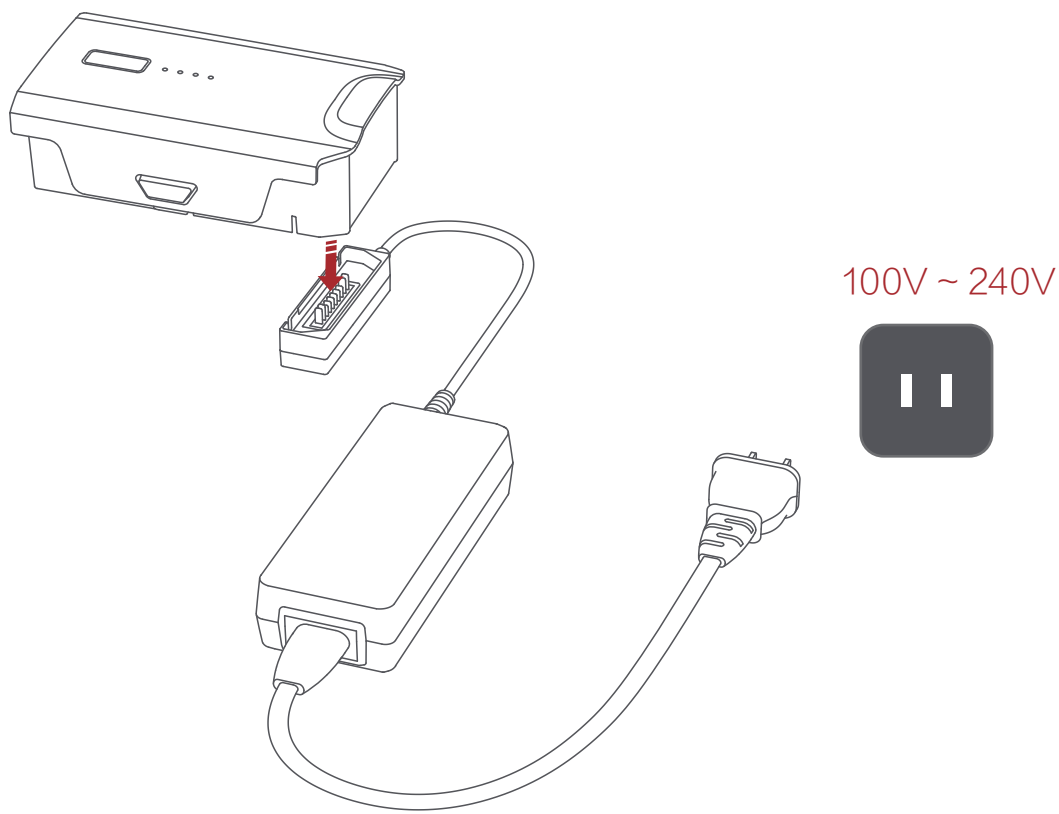
Type: Rechargeable lithium battery pack
Weight: About 275g
Capacity: 4500mAh
Voltage: 11.4V
Limit voltage: 13.05V
Energy: 51.3Wh
Operating temperature: 0° C ~ 40° C

Note:
The 35 minutes flight time refers to constant speed at 10m/s (no wind) with fully charged and low cyclic battery. Remote control distance reach to 8km (FCC) in open area and no interference . All above testing and data come from FIMI laboratory, errors may occur in actual use for operating and environmental changes.

Charging

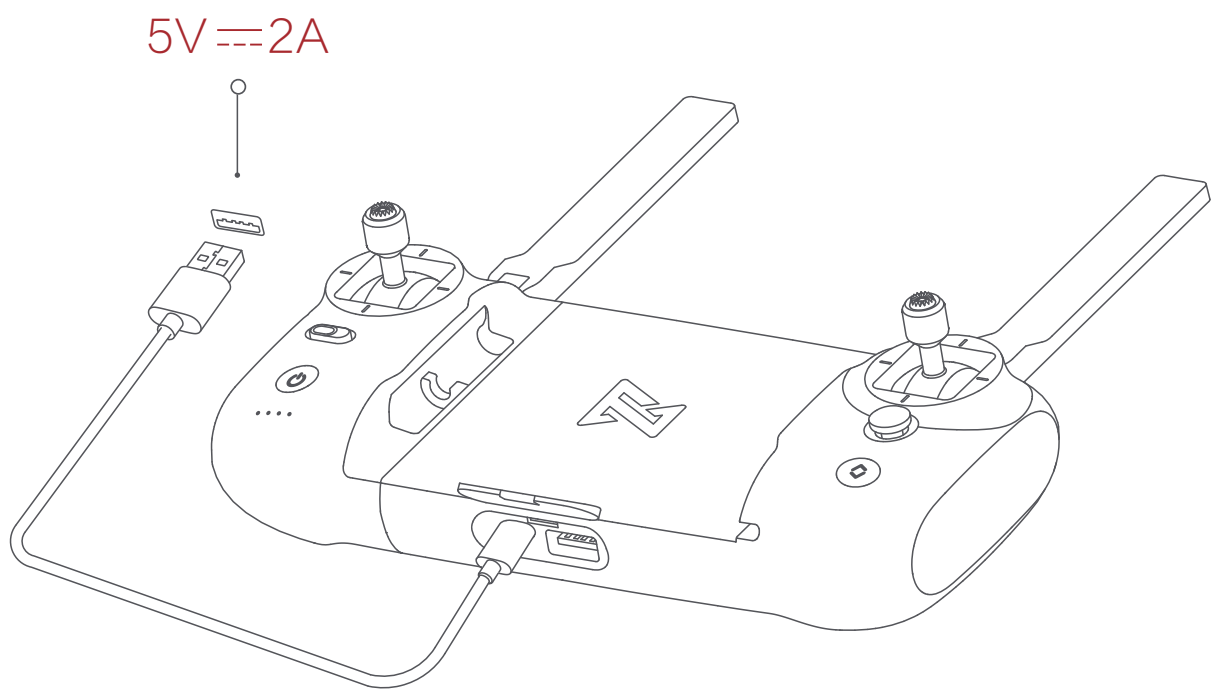
1 Charge drone battery

- Connect the battery,charger and AC cable as shown below, and plug the charger into a power outlet.
- When the battery is in charge, the battery level lights are flashing.
- When the battery is fully charged, the battery level lights go out.
- It takes about 2 hours to fully charge the battery.



2 Charge RC

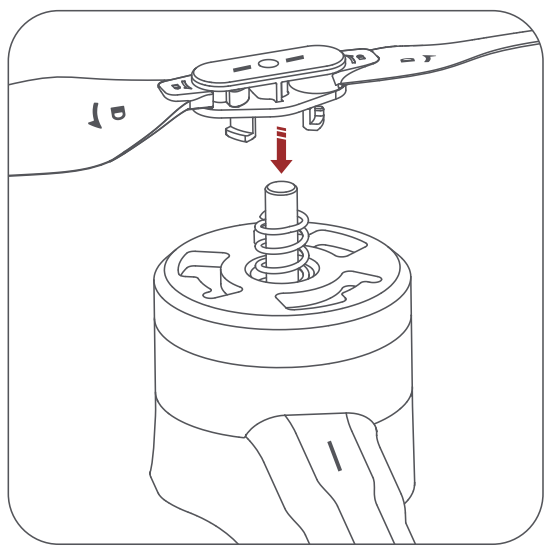
- Connect the remote controller to a power adapter as show below.
- When the RC is in charge, the battery level lights are flashing.
- when the RC is fully charged, the battery level lights go out.
- It takes about 2.5 hours to fully charge the RC in the powered off condition.



Assembly and Disassembly

1 Propellers

- Unfold the front and rear arms of the drone.
- Attach the gray marked propellers to the motor mounting base with gray marks on the arms.
- Ensure the propeller is pressed to the bottom of the mounting base.
- Rotate the propeller to the end of the lock direction until the propeller gets bounced and locked.
- Press the propeller forcefully and rotate the propeller along the unlock direction to remove the propeller.



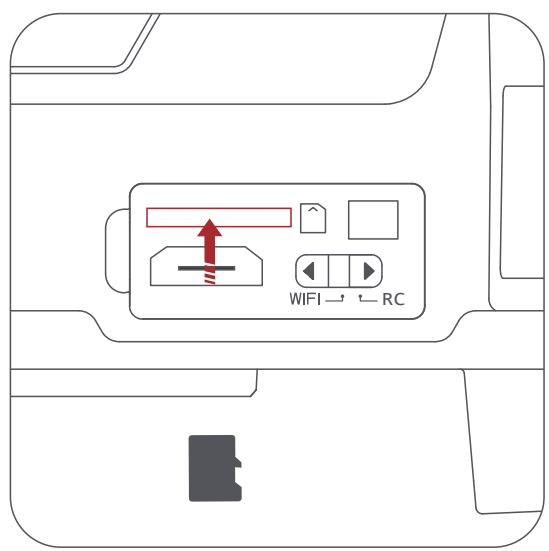
Safety tips:

If the propeller is damaged, please replace them to ensure flight safety and efficiency.Check if the propeller is properly installed and fastened before each flight.Stay away from the rotating propeller to avoid cutting.

Note: Take the installation of reverse propeller as an example.

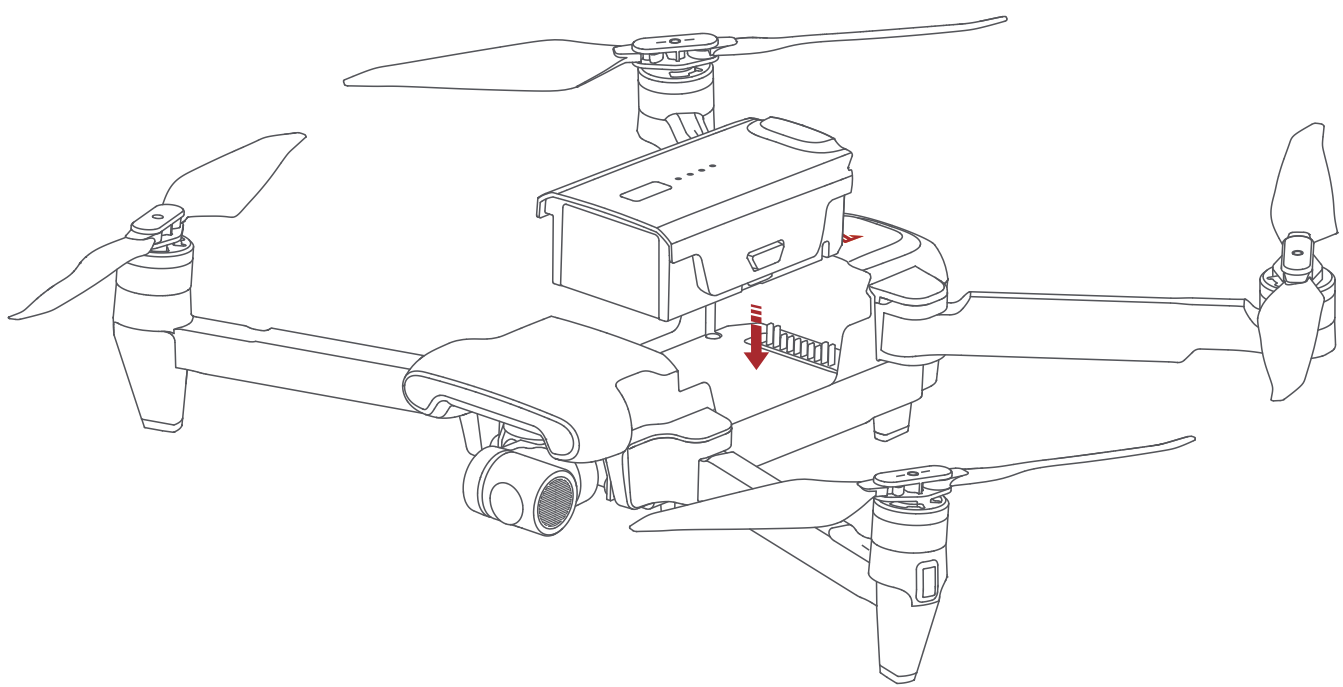
2 Drone TF card

- When installing TF card to the drone,please unfold the arms of the drone first and open the protective cover.
- Insert the TF card with the literal upward into the TF card slot.
- When removing TF card, press the TF card to pop out.



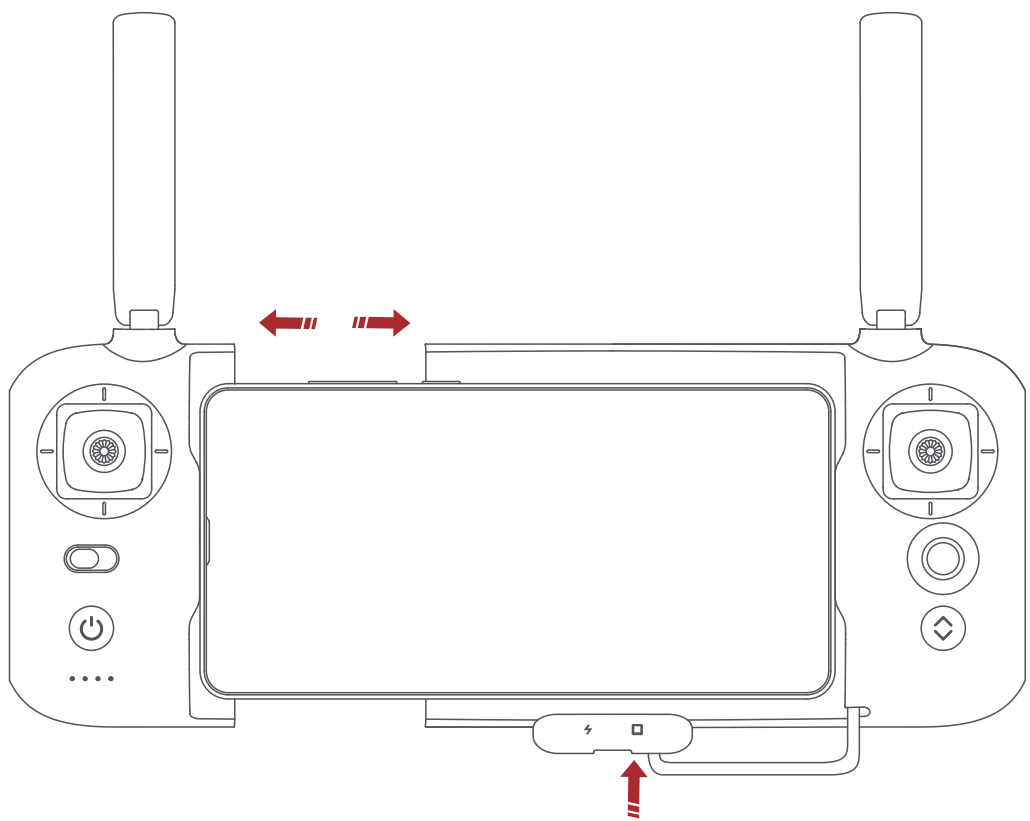
3 Battery

- Push hard the battery, after the battery installed in place, there will be a "click" sound.
- To remove the battery, you need to press the battery buckle on both sides to pull out.



4 Remote controller

- Tighten the mobile or pad on mobile device holder by extending the holder to the left.
- Open the protective cover on the RC bottom.
- Connect your phone and the RC with a USB cable.
- Connect the drone and update firmware according to instructions in FIMI Navi app.

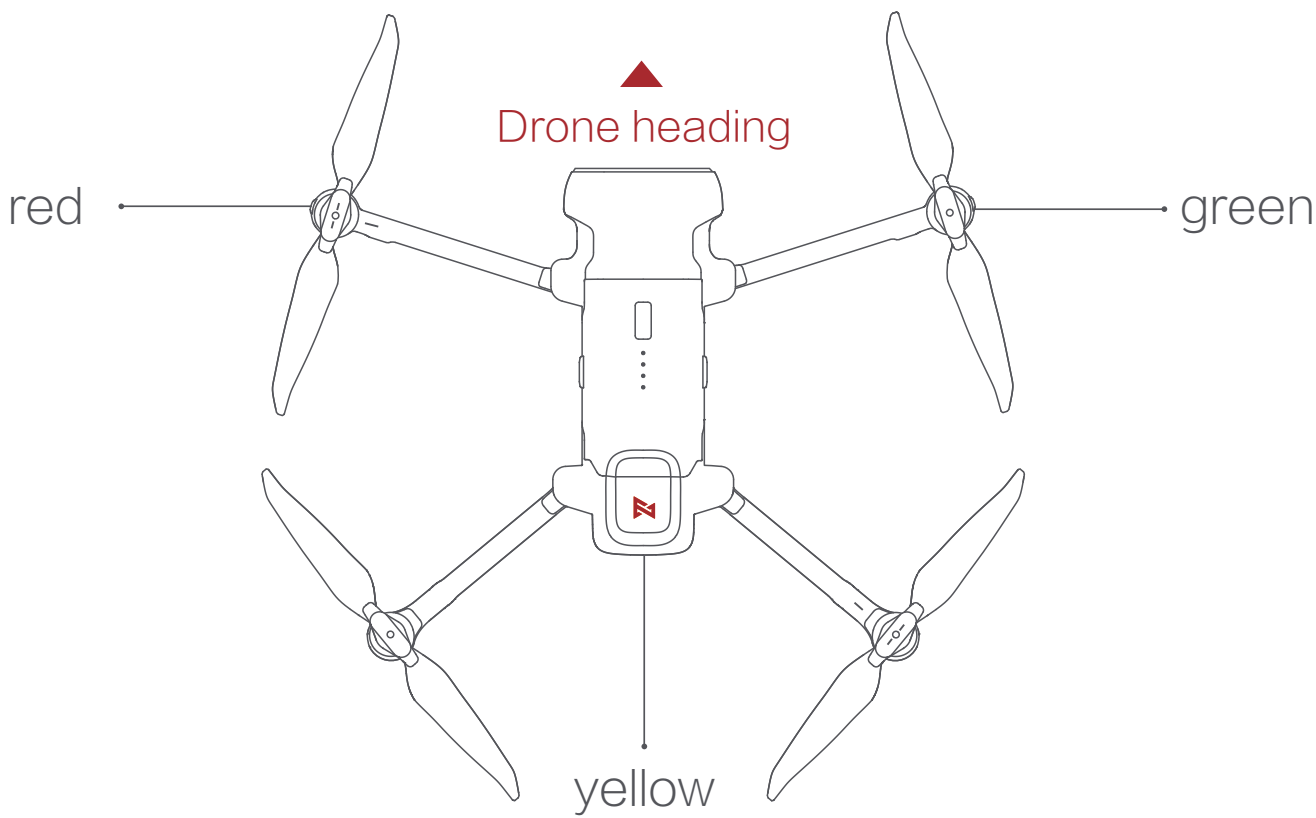


Note: The cable slot is reserved on the right .

Prepare to Fly

1 Confirm the drone heading

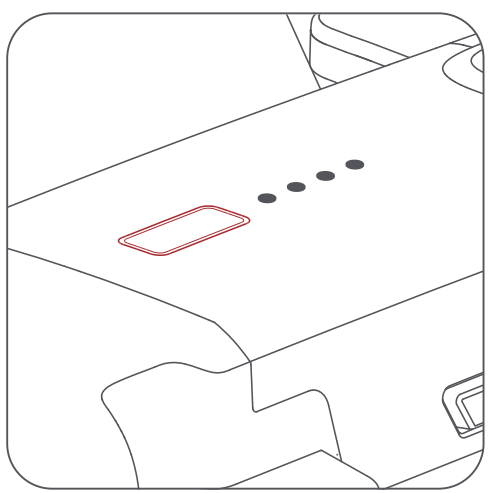
- The direction of build-in gimbal is the drone heading.
- Once the drone is turned on, the heading can be told by navigation lights.
- The red light and the green light indicate the heading,and the yellow light is the tail.



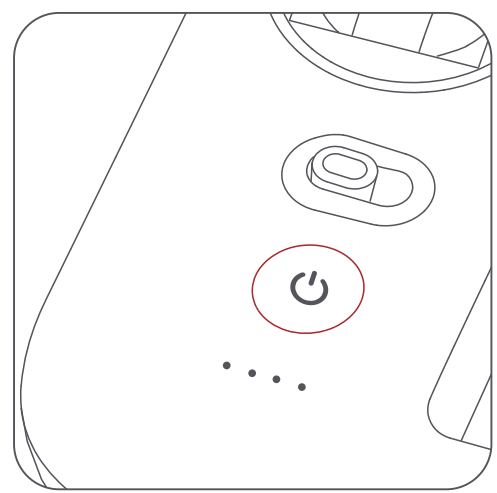
Safety tips: Always keep the tail pointed at the user to avoid direction misjudging.

2 Turning on/off the drone and the RC

- Short press+long press power button 2 seconds to power on/off.
- Short press to check battery level



Drone



Remote controller

Flying

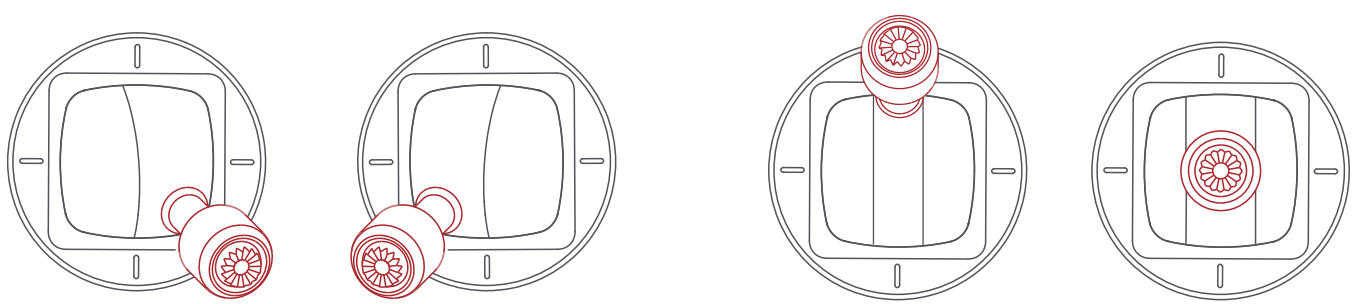
1 Auto take-off/landing

The drone meets the auto take-off/landing condition when the auto take-off/landing button light is white. Press this button for 2 seconds to auto take off/landing.

Auto take-off

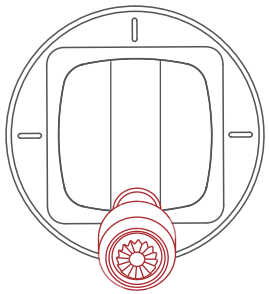
Auto landing

2 Manual take-off/landing

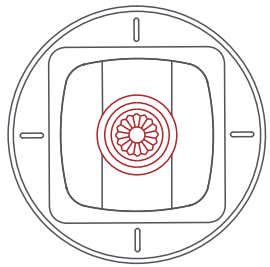


Left stick Right stick Left stick Right stick

- Keep both sticks to the bottom inner still over 3 seconds, the propellers start spinning.
- Release both sticks once propellers have been spinning, and firmly push the left stick upward to take off the drone.
- During flight, release both sticks to hover.
- At any time during controlled flight, release the sticks and the drone will hover automatically.



Left stick



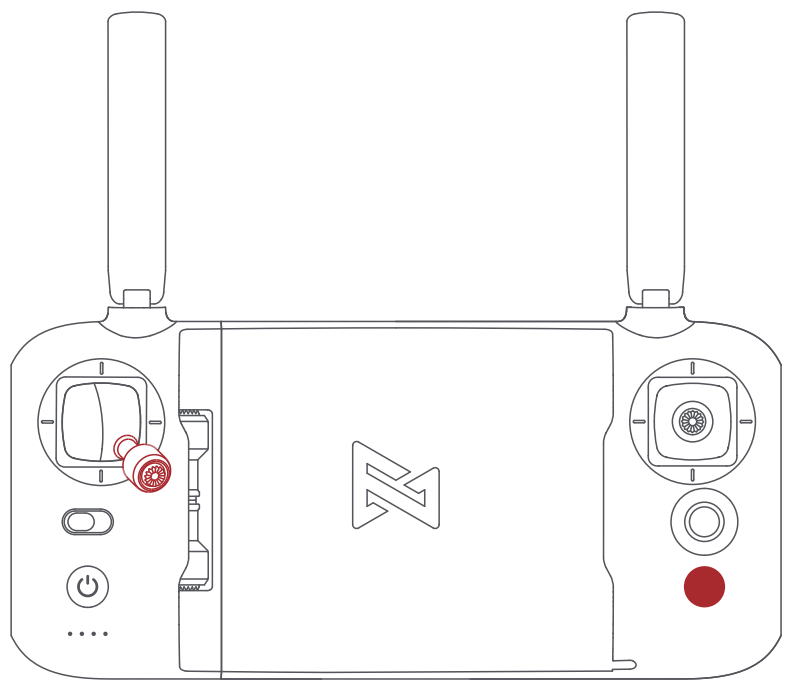
Right stick

- Slowly move the left stick downward to land the drone.
- Once the drone has landed, push and hold the left stick down over 5 seconds, the motors will stop.

Safety tips: The drone has no waterproof function. Please be careful of landing environment. Do not land on an inclined plane for safety.

3 Stop propellers in an emergency

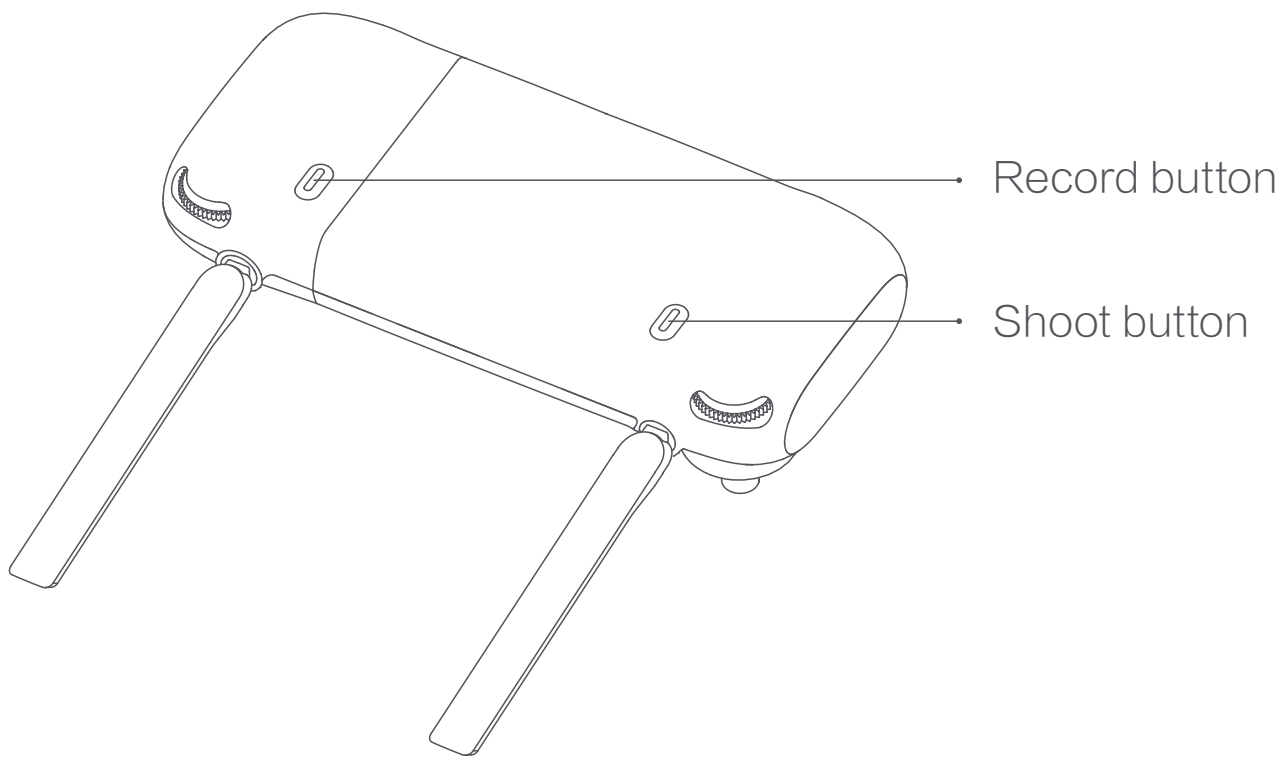
When motors can't properly turn off, please toggle the left stick to the bottom inner in maximum range, and press Auto take-off/landing button for 5 seconds simultaneously, the motors will stop.



Safety tips: Do not do the above operation during normal flight to avoid motors being stopped in the air.

4 Shooting and Recording

- Press the shoot button to take a photo. A photo is taken when you hear 2 short sounds.
- Press the record button to record video. Recording starts when you hear 2 short sounds. Press again to stop recording with 4 short sounds.
- During recording, short press the shoot button to capture a picture.(only support 1920x1080 25|30|50|60fps)
- The pitch angle of the gimbal can be controlled by toggling the left dial up and down.
- The right dial can adjust EV/ISO.



light Recognition

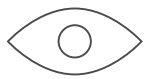
1 Drone lights

	Drone lights	Drone status
1	All lights is fading in and out	Self-checking
2	All lights are on	Drone on the ground: self-check fails
		Drone is flying: internal error
3	The red and green lights are on and the yellow light is flashing at regular intervals	Ready to fly/in flight
4	All lights flashing twice	Low battery alerts
5	All lights are flashing quickly	Very low battery alerts, land as soon as possible
6	The yellow light is flashing	The firmware of the drone is updating

2 Remote lights

	Remote lights	Remote status
1	Power button's red light is on	Weak signal or not connected to the drone
2	Power button's white light is on	Normal signal
3	Power button's red light flashes	RC Pairing or upgrading firmware
4	Power button's white light flashes	Recording videos
5	Auto take-off/landing button's red light is on	Auto take-off or landing not enabled
6	Auto take-off/landing button's white light on	Ready for auto take-off

Safety Flight

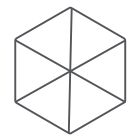


In visual range

+

Good GPS signal

+



Open and unobstructed environment

Warm tips:

Fly only in open areas, and avoid people, animals, trees, vehicles and buildings. Keep away from airports, railways, highways, high-rises, electric wires and areas where drones are restricted. Keep away from telecommunication base stations, high-power antennas and areas with complex electromagnetic signals. Do not use this product in restricted areas. Be sure to read the Disclaimer and Safety Operation Instructions carefully.

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.

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

Note: 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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Scan the QR code to download FIMI Navi 2020 App