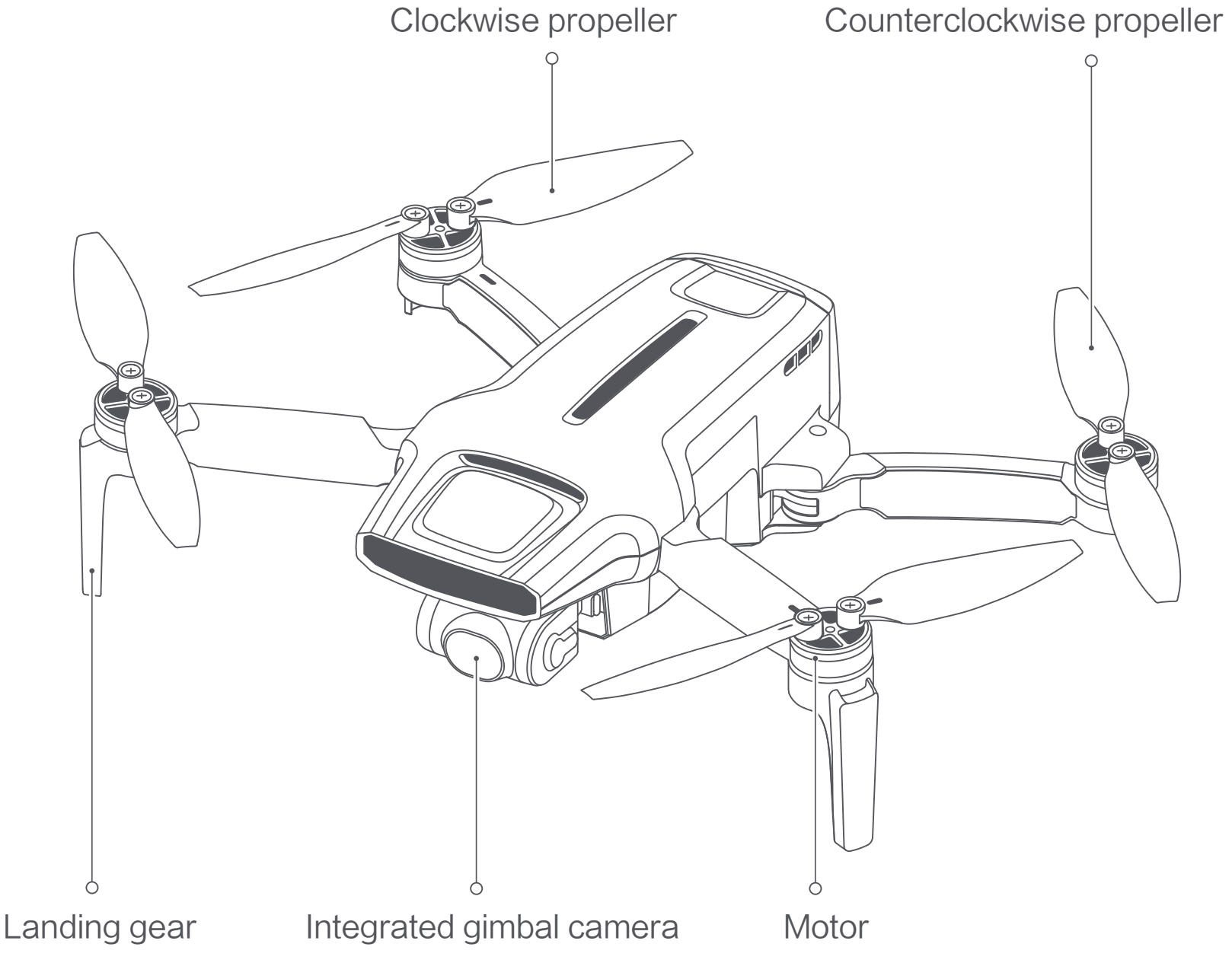
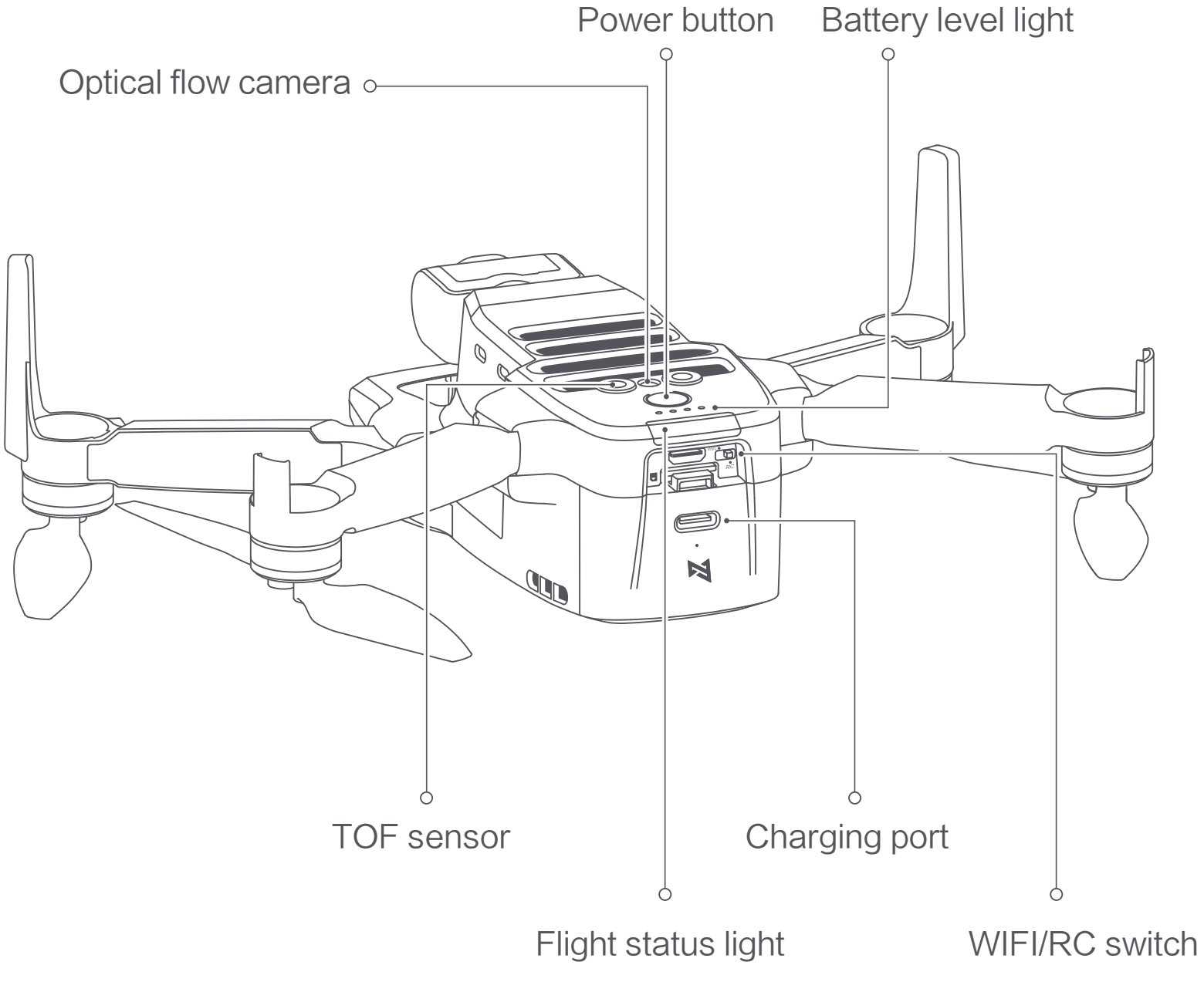
FIMI X8 MINI Drone Quick Start Manual

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

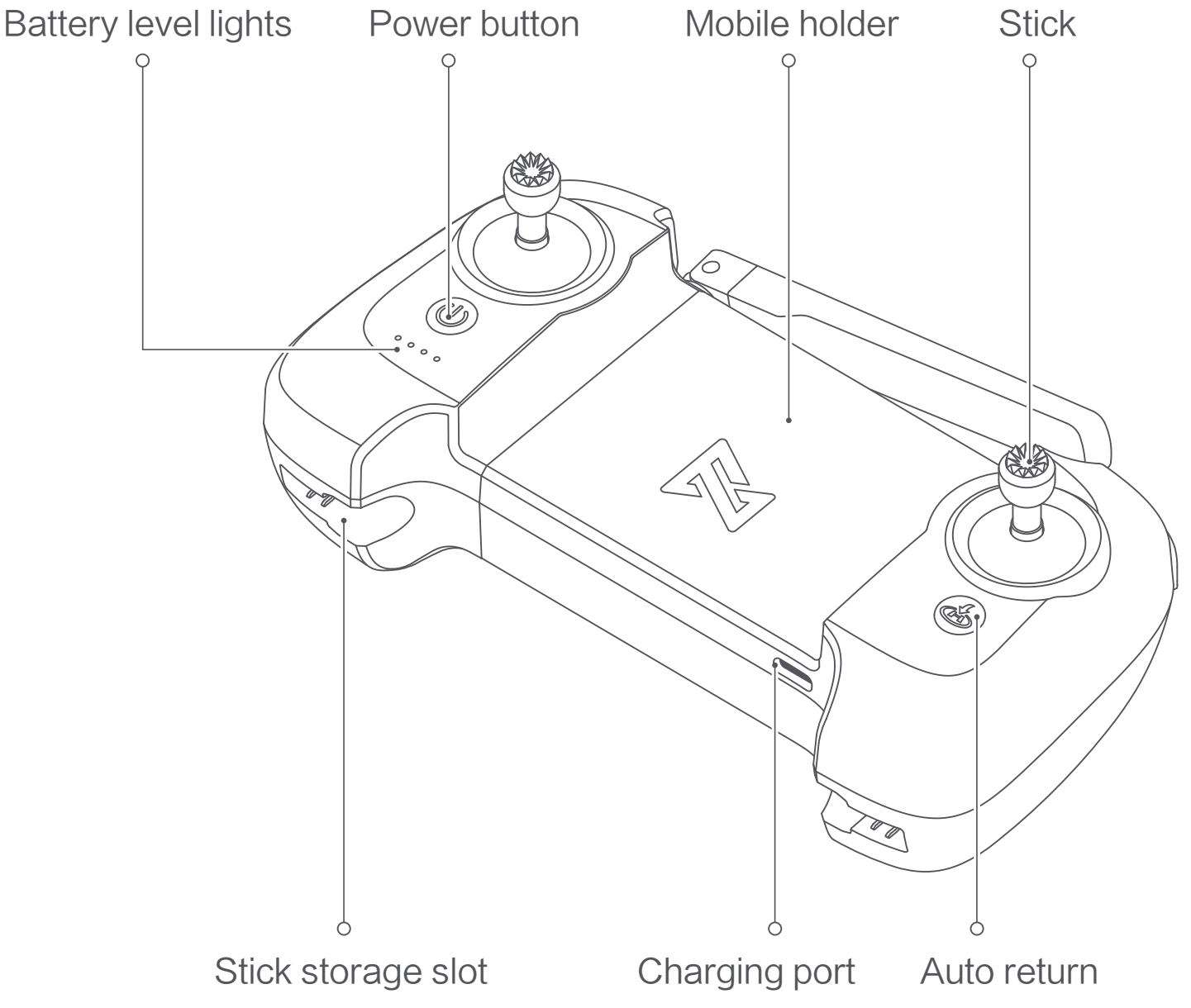
Product Introduction

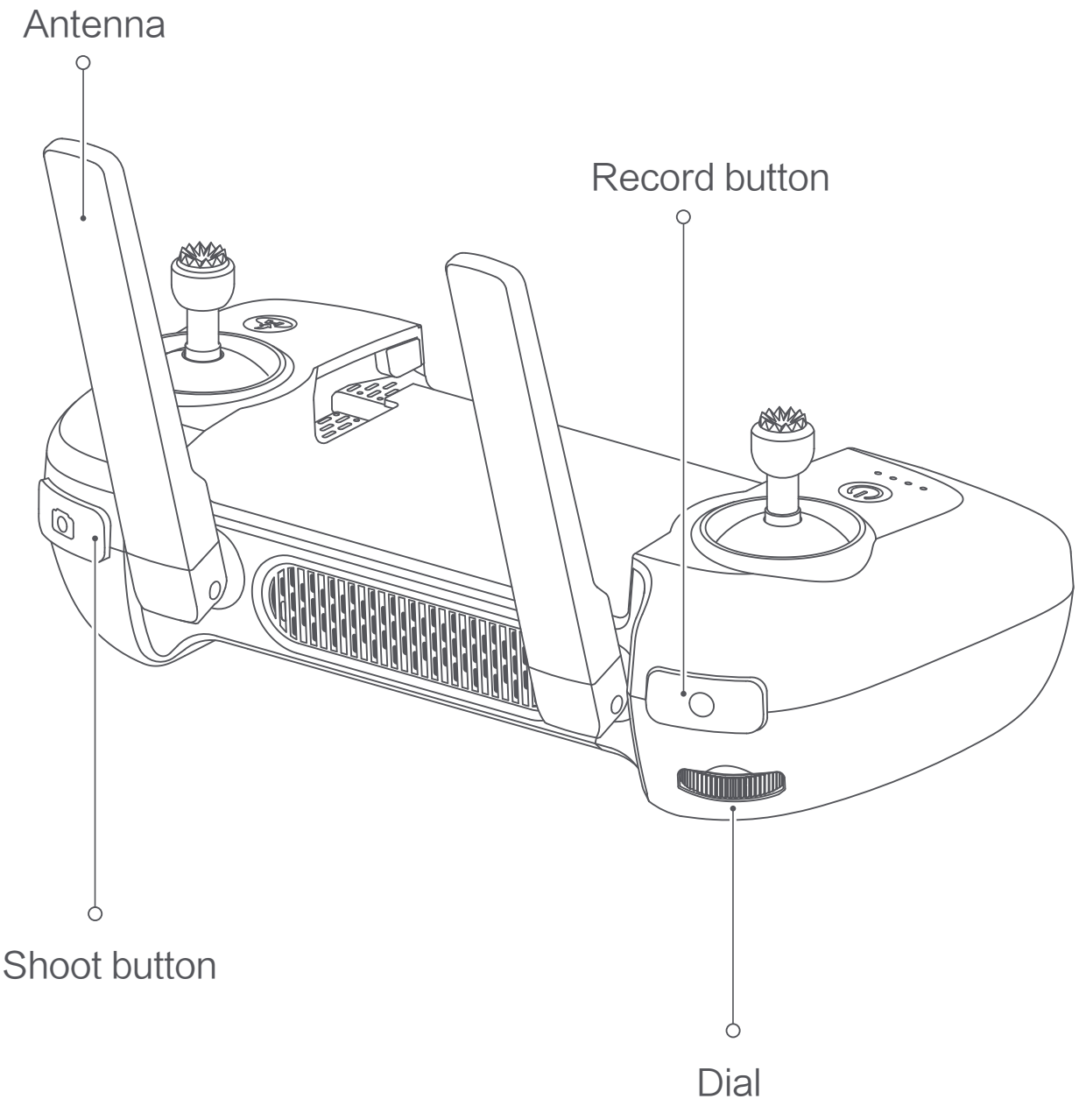
1 Drone




Power button
Battery level light
Optical flow camera
TOF sensor
Charging port
Flight status light
WIFI/RC switch

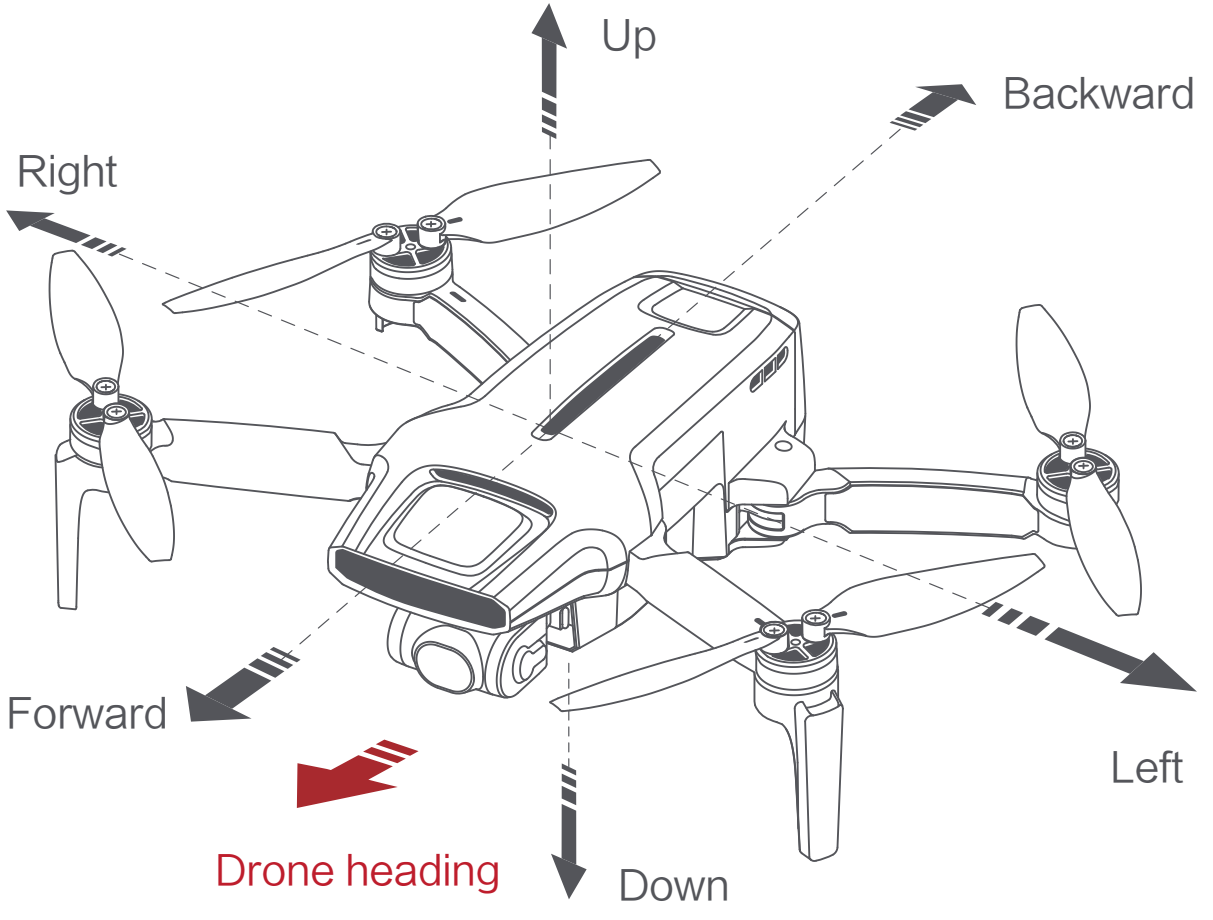
2 Remote controller

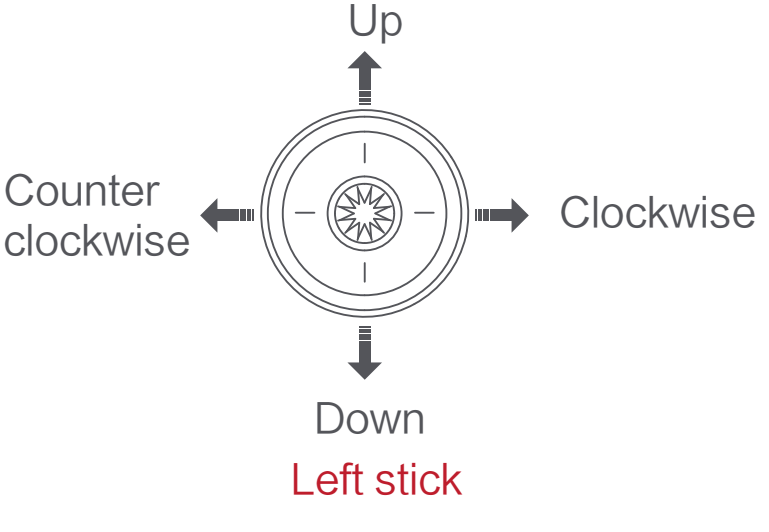


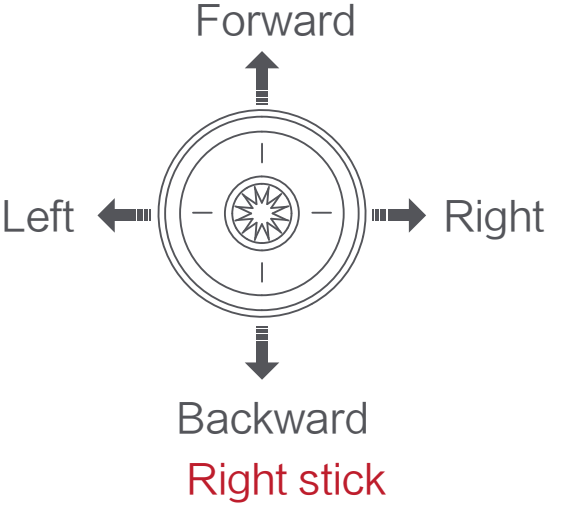

Antenna
Record button
Shoot button
Dial

Description of RC Button

	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 anticlockwise 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	Long press the button for over 2 seconds, and the drone will enter RTH mode when you hear a beep. Short press the button to cancel RTH mode
4	Shoot button	Short press to shoot the picture
5	Record button	Short press to start / stop recording
6	Dial	Adjust the pitch angle of gimbal camera
7	Power button	Short press to view the battery level Short press+long press 2 seconds to power on/off







Note: The stick mode can be set in FIMI Navi Mini app. (The default is Mode 2)

Drone Specifications

Drone

Product model：FMWRJ04A7

Max ascending speed：5m/s

Max descending speed：3.5m/s

Max flight speed：16m/s

Operating temperature：0~40℃

Suitable altitude：≤4000m

FCC ID: 2AYVYFMWRJ04A7

Operating frequency：5.725-5.850GHz

Dimensions：145×85×56mm (folded)
200×145×56mm (unfolded)

Take-off weight：Drone with standard version battery weight: around 258g
Drone with pro version battery weight: around 245g

Flight time：Standard version battery usage time: 30-minutes
(no wind environment and at a constant flying speed of 6m/s)
Pro version battery usage time: 31-minutes
(no wind environment and at a constant flying speed of 6m/s)

Satellite positioning systems：GPS/GLONASS/BEIDOU

Hovering accuracy：Vertical ±0.1m (within TOF sensor working range)
±0.5m（when GPS positioning is active）
Horizontal: ±1.5

Remote controller

Product model：FMYKQ04A7

Net weight：About 260g

Dimensions: 165x89x47mm

Operating frequency：5.725-5.850GHz

Type：Rechargeable lithium battery

Battery voltage: 3500mAh

Nominal voltage: 3.7V

Input: 5V⎓2A

Max transmission distance: About 8000m

Operating temperature: 0~40℃

Suitable altitude：≤4000m

FCC ID: 2AYVYFMYKQ04A7

Gimbal camera

Controllable rotation range: 10° ~ -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 pixels

ISO range：100-3200

Shutter speed：32~1/8000s

Max video resolution：

3840×2160I30fpsI25fpsI24fps

Max bitrate：100Mbps

File system：FAT32

Image format: JPG，JPG+DNG

Video format：MP4

Recommended SD card：

Micro SD(U3 grade and above）8~256GB

Standard version smart battery

Type：Li-ion 2S

Weight：102g

Capacity：2400mAh

Voltage：7.2V

Limited voltage：8.4V

Energy：17.28Wh

Suitable charging temperature: 5~40℃

Pro version smart battery

Type：LiPo 2S

Weight：86g

Capacity：2200mAh

Voltage：7.7V

Limited voltage：8.8V

Energy：16.94Wh

Suitable charging temperature: 5~40℃

Note：

*The standard version battery usage time is 30 minutes, measured at a constant flying speed of 6m/s (no wind or breeze environment) after being fully charged

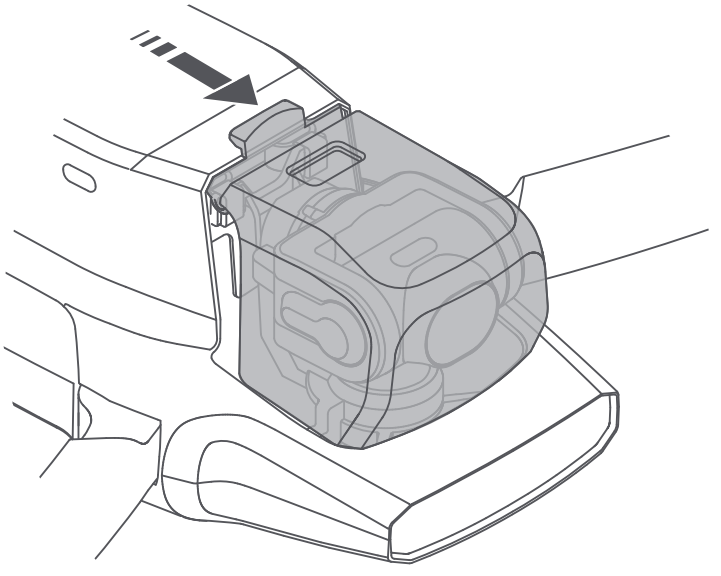
*The Pro version battery usage time is 31 minutes, measured at a constant flying speed of 6m/s (no wind or breeze environment) after being fully charged

*Remote control distance reaches to 8km (FCC) in open area and no interference. All testing and data above come from FIMI laboratory. Errors may occur in actual use because of operating and environmental changes.

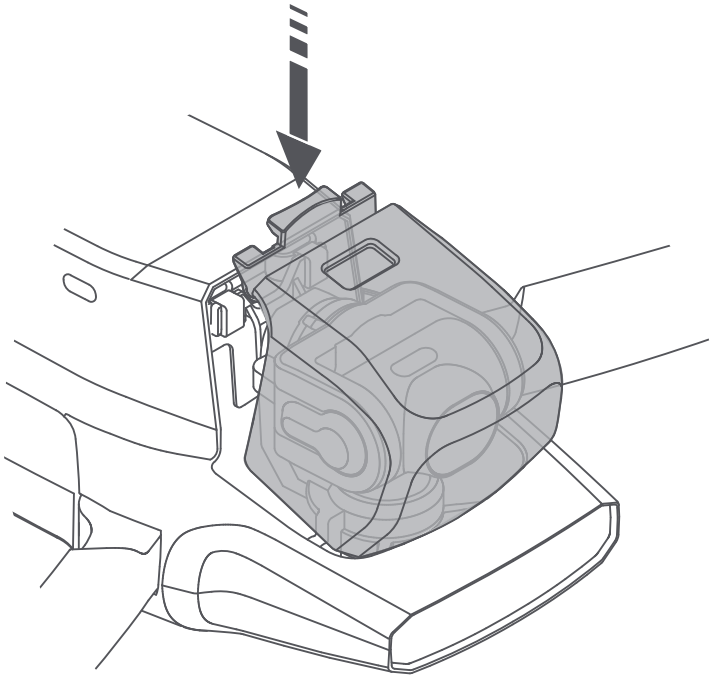
Ready to fly

1 Equip and remove the gimbal protector

- Equip and remove the gimbal protector as shown



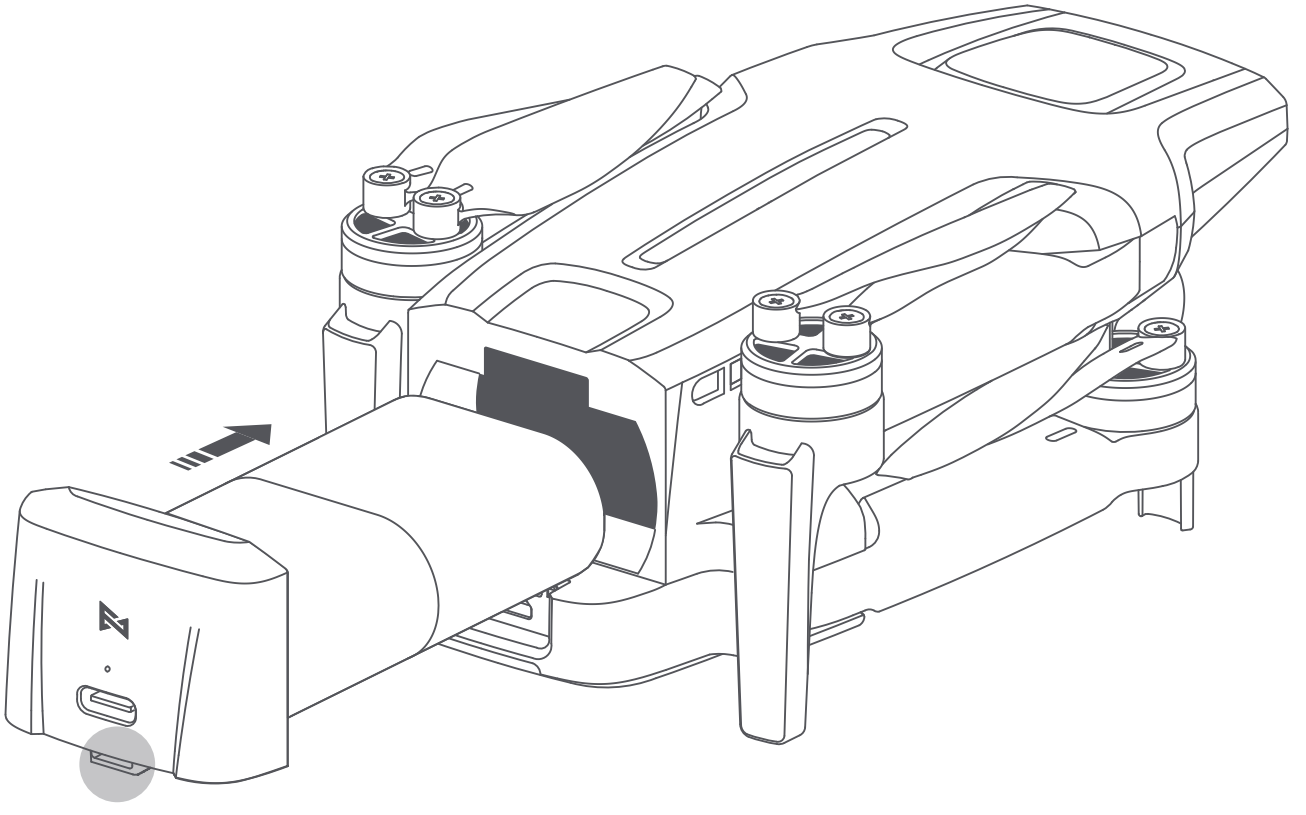
Equip the gimbal protector as the arrow leading



Remove the gimbal protector as the arrow leading

2 Battery

- Hard push the battery. There will be a “click” sound if the battery is installed in place.
- To remove the battery, you need to press the bottom battery buckle to pull out.

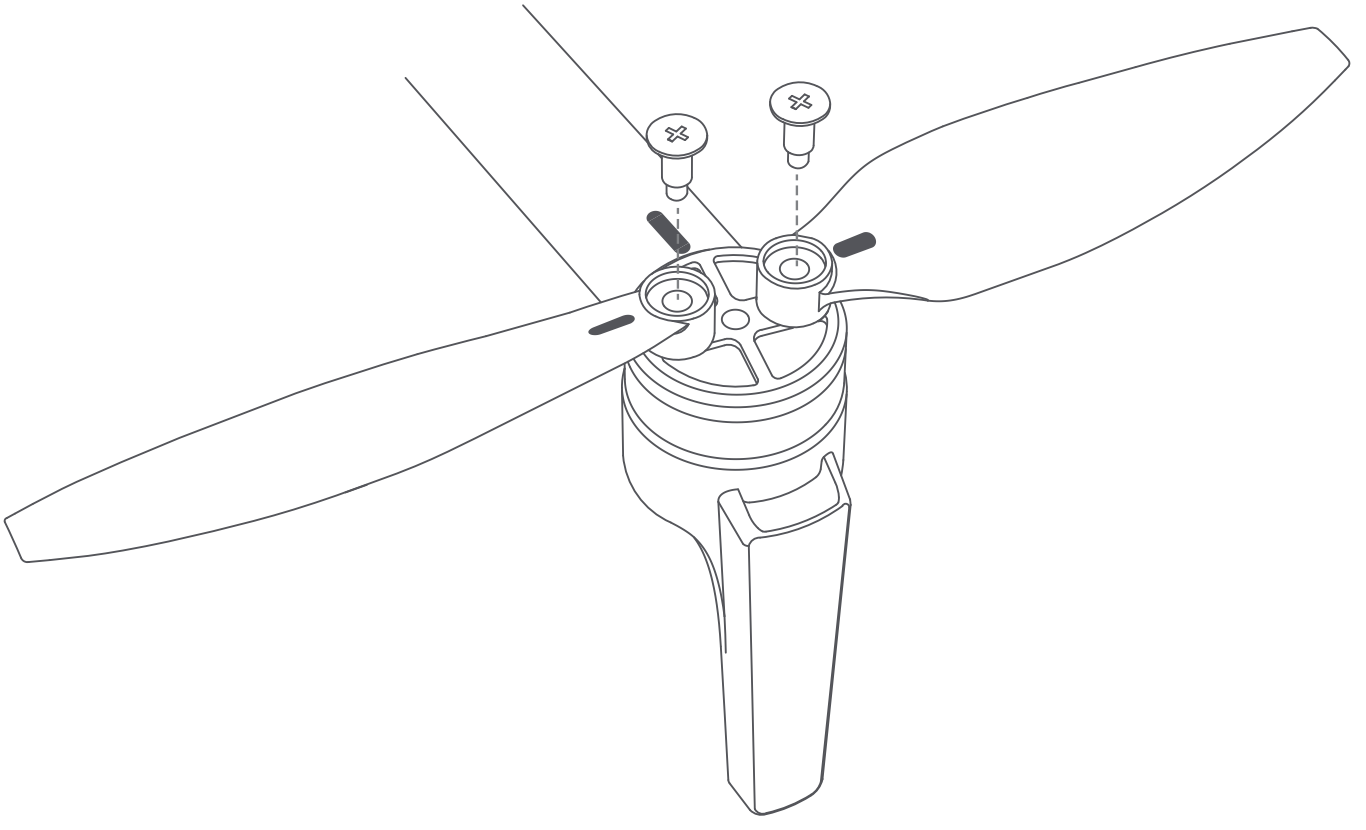


Battery buckle

Safety tips: Please take the battery out of the drone and keep it separately when not in use.

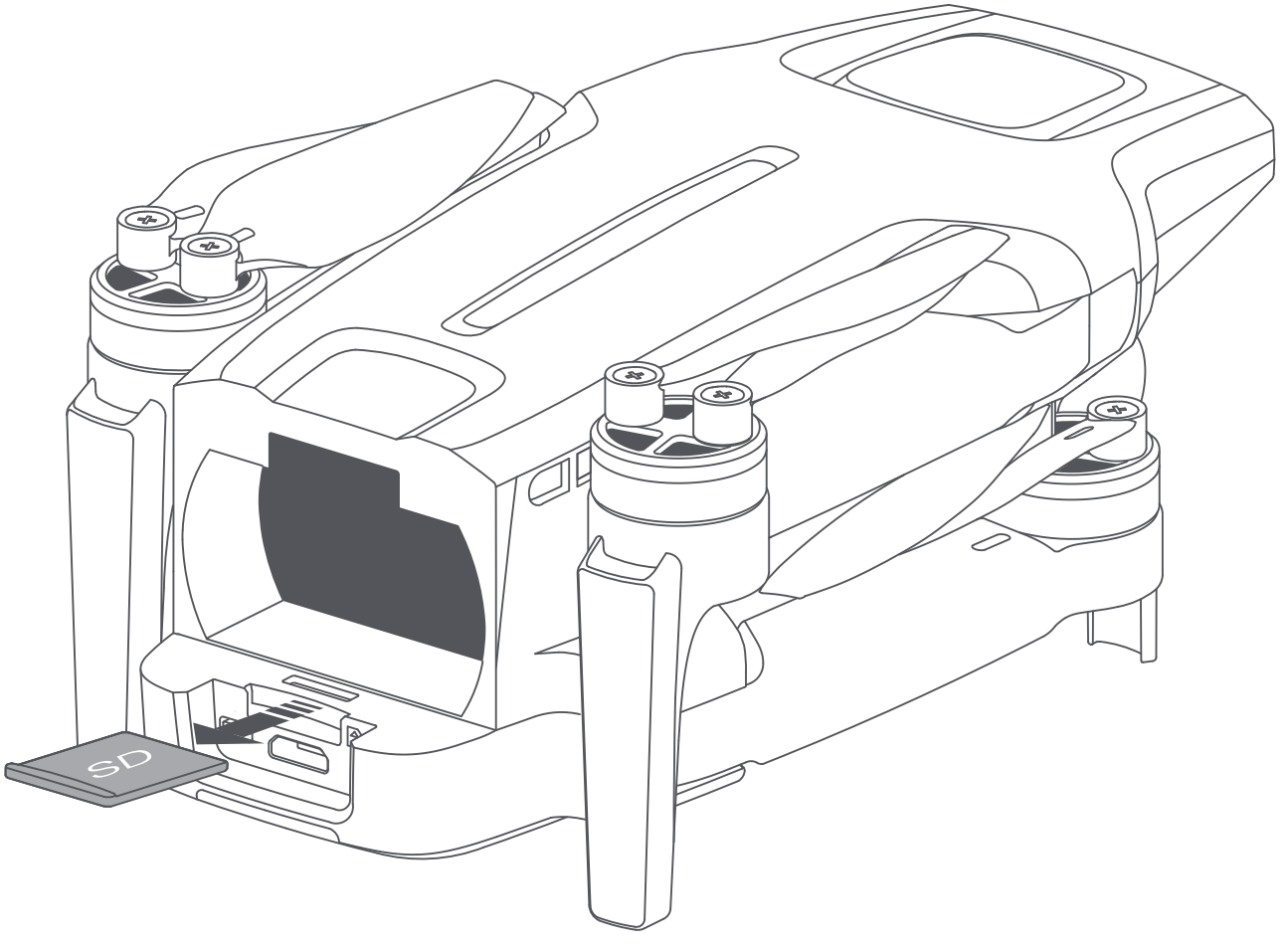
3 Propeller

- Please install and remove the propellers as the picture shown.
- The propellers need to be installed according to the marks on the arms and propellers, and distinguished the forward and reverse propellers (the attached picture shows the forward propeller.)
- Need to use a screwdriver for installation and make sure the screws are locked well.
- To keep safe, screws should be replaced together with propellers.



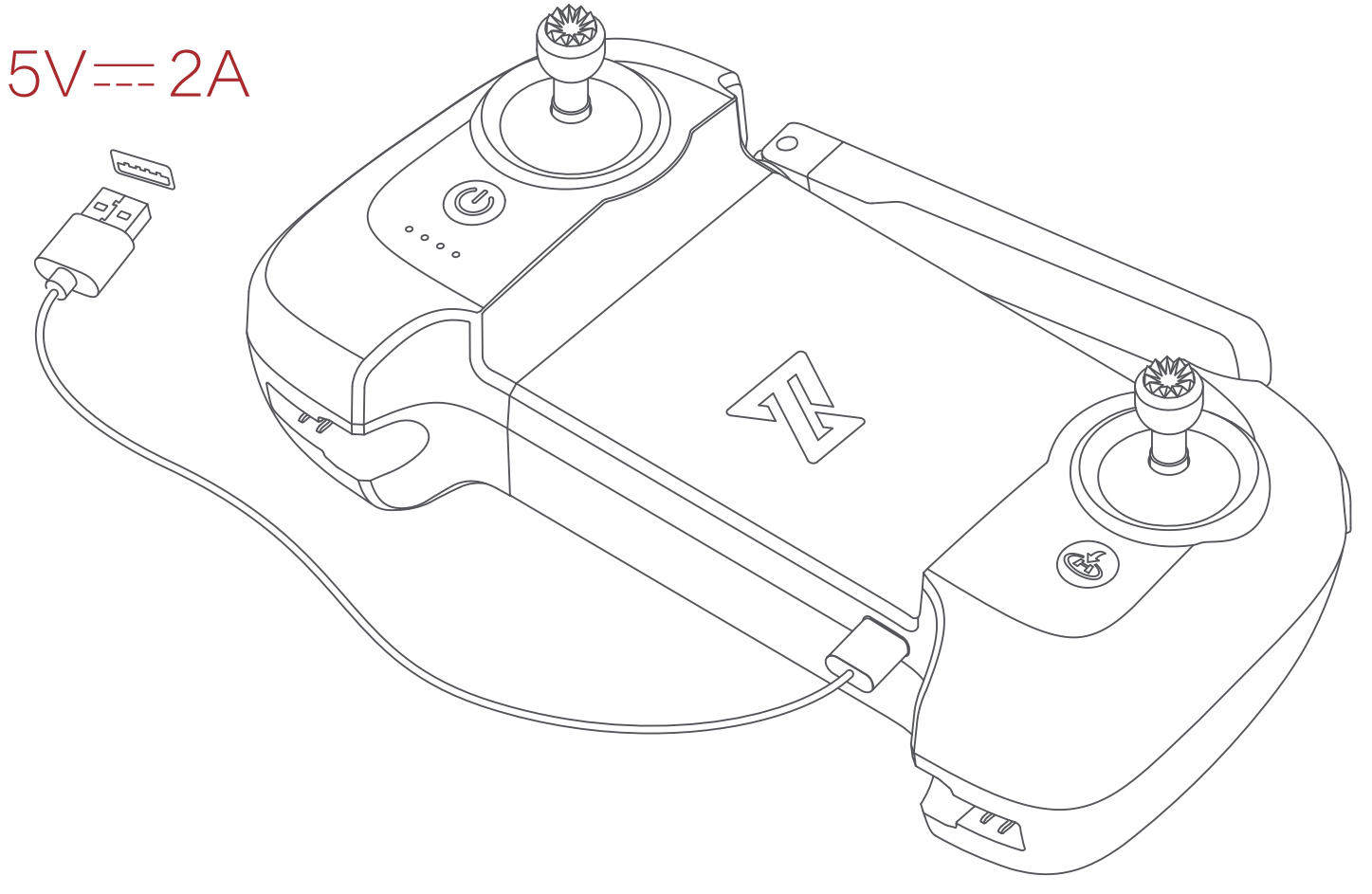
4 Insert Micro SD card

- When installing Micro SD card, please pull out the battery.
- Insert the SD card into the SD card slot.
- When removing SD card, press the SD card to pop out.

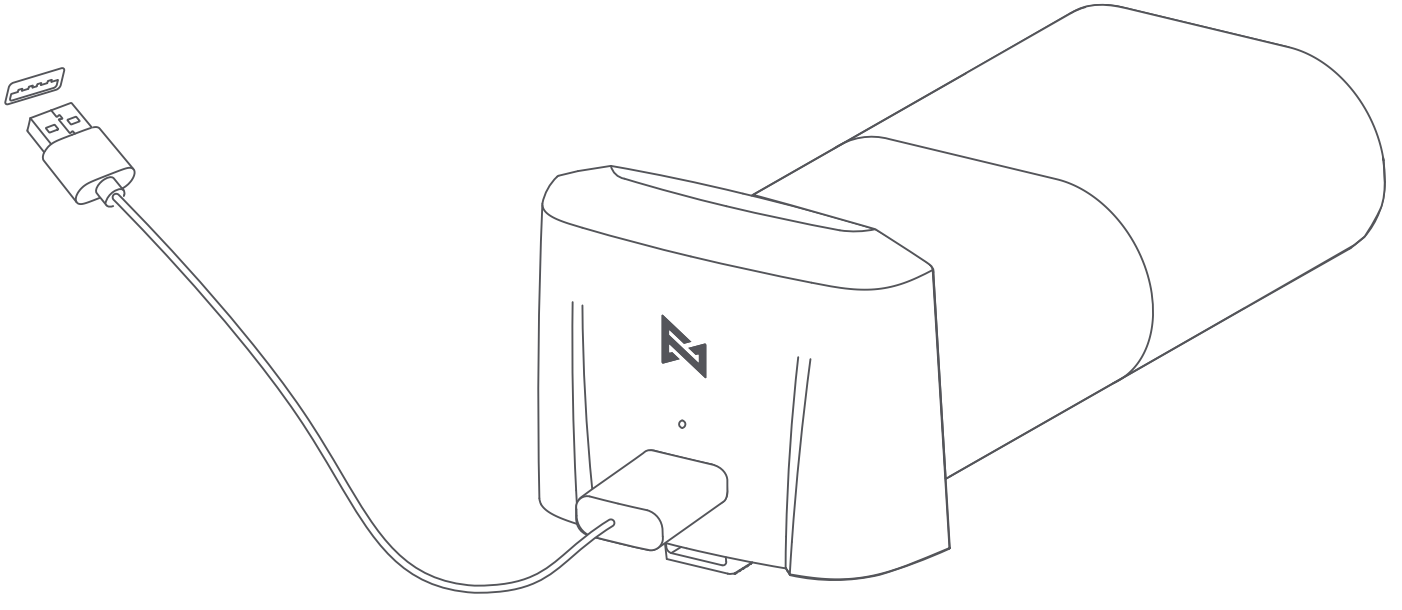


5 Charge

- Connect the remote controller to a power adapter as shown 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.

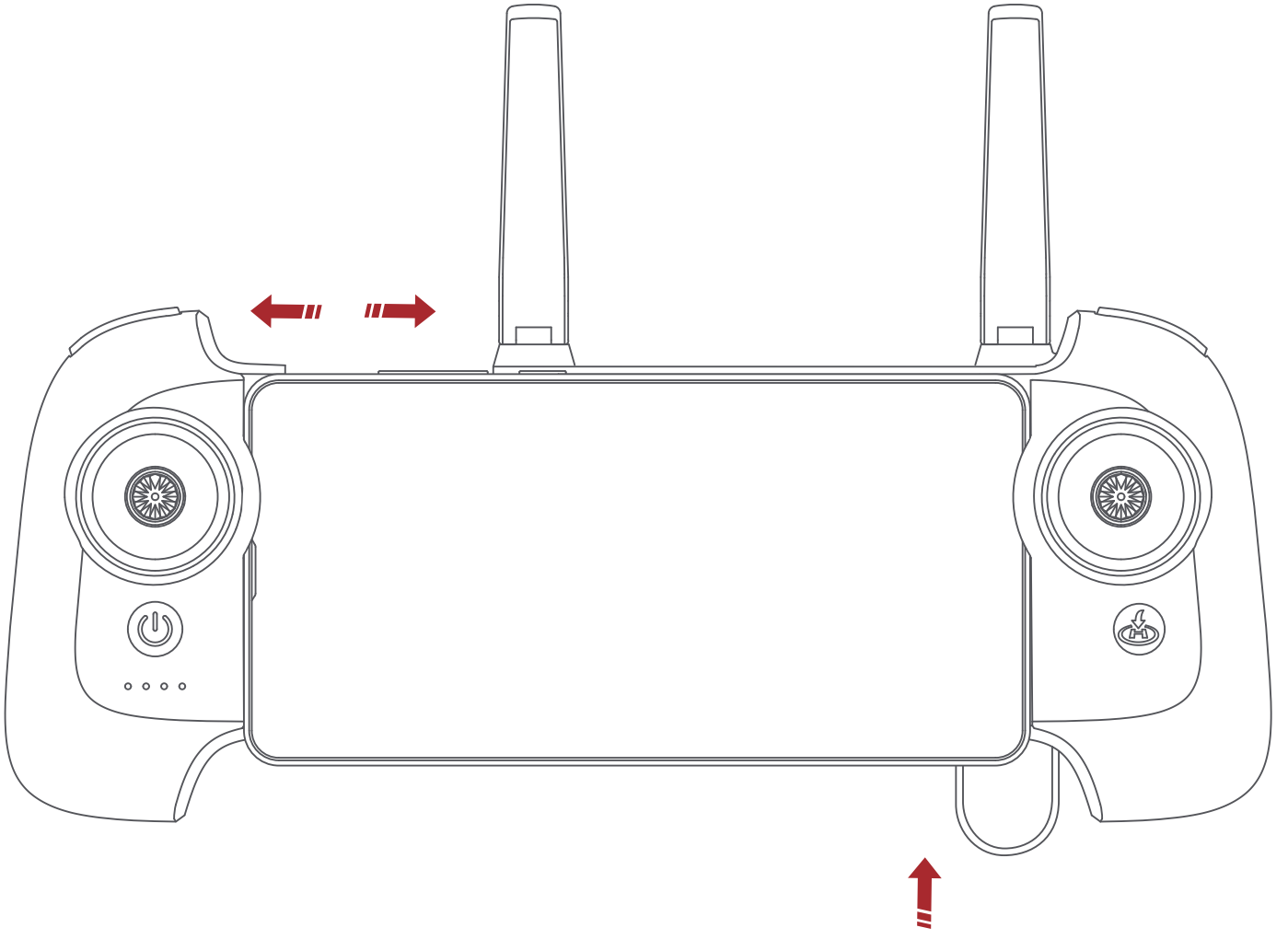


- The battery status light keeps on when charging.
- The battery level light off when charging finished.
- It takes 2.5h to fully charge the batter via 5V/2A, 1.5h via 9V/2A and 1h via 9V/3A.



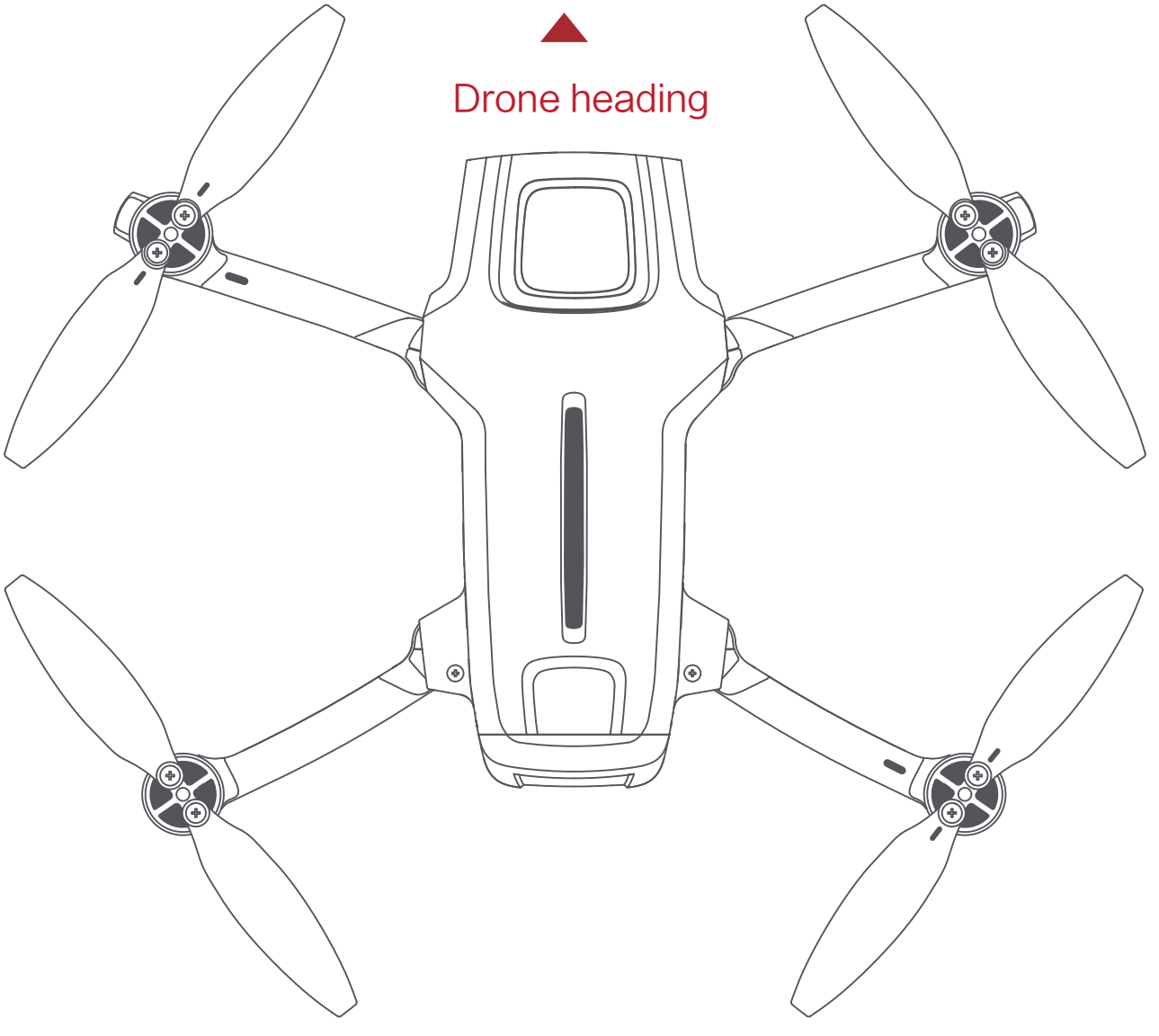
6 Remote controller

- Use USB cable to connect the device as shown.
- Unfold the RC to place the device.



7 Distinguish the direction of drone

- The side of gimbal camera is head of drone.
- Distinguish the direction of drone through status light.

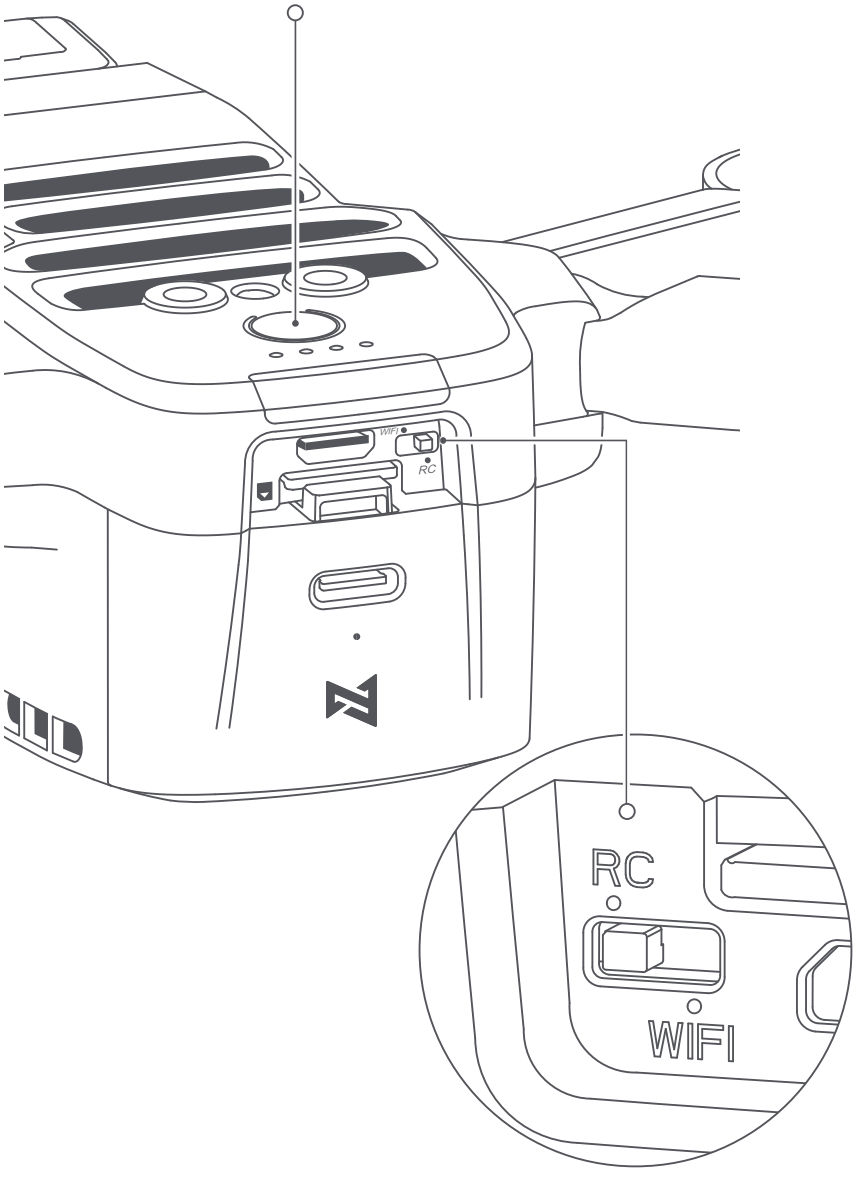


Safety tips: User should face to the tail of drone when operating it, in case of accident caused by wrong direction.

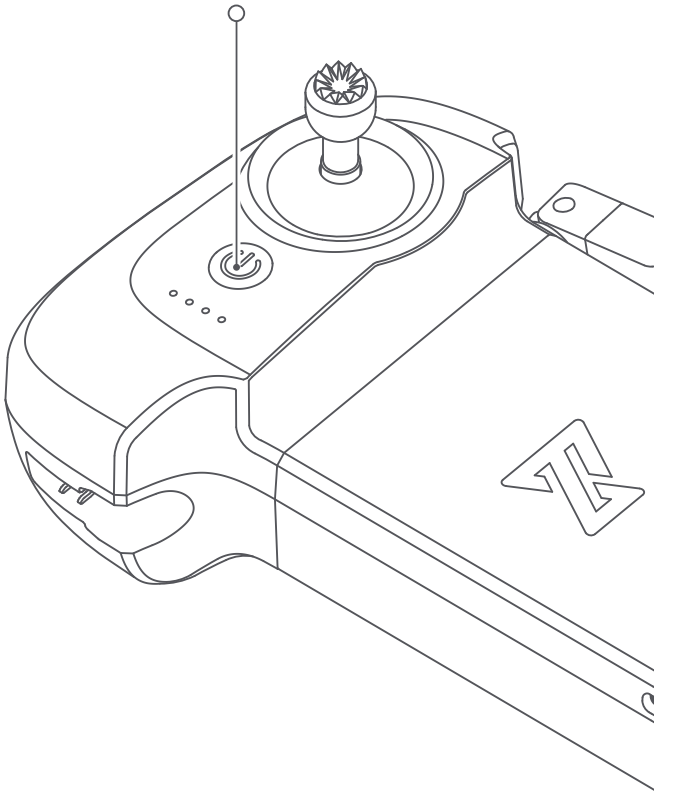
8 urning on/off the drone and the RC

- Short press+long press power button 2 seconds to power on/off.
- Short press to check battery level.
- Confirm the current state of the Wi-Fi / RC switch before powering on (factory default RC position); switch control mode requires restarting the device.

Power button



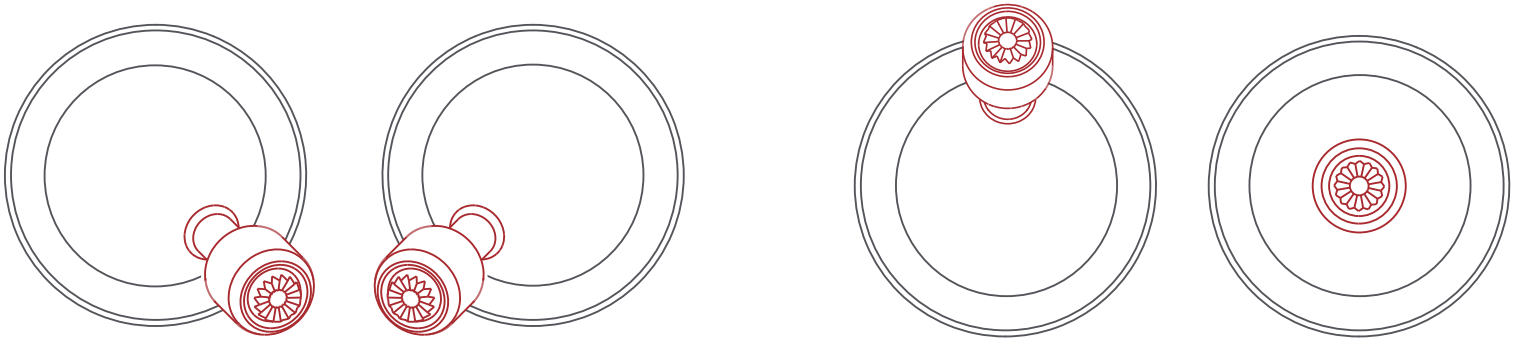
Power button



Flying

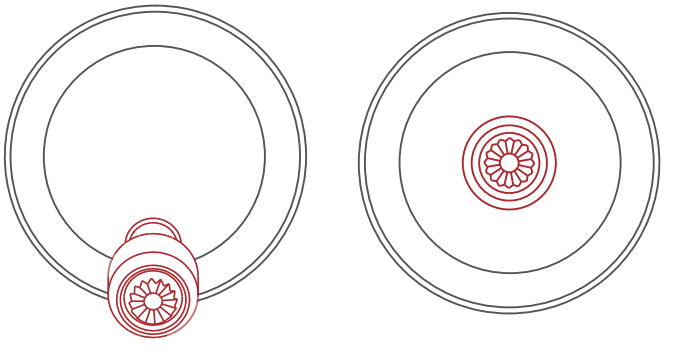
1 Auto take-off/landing

- Keep both sticks to the bottom inner still over 2 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.



Left stick Right stick 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.

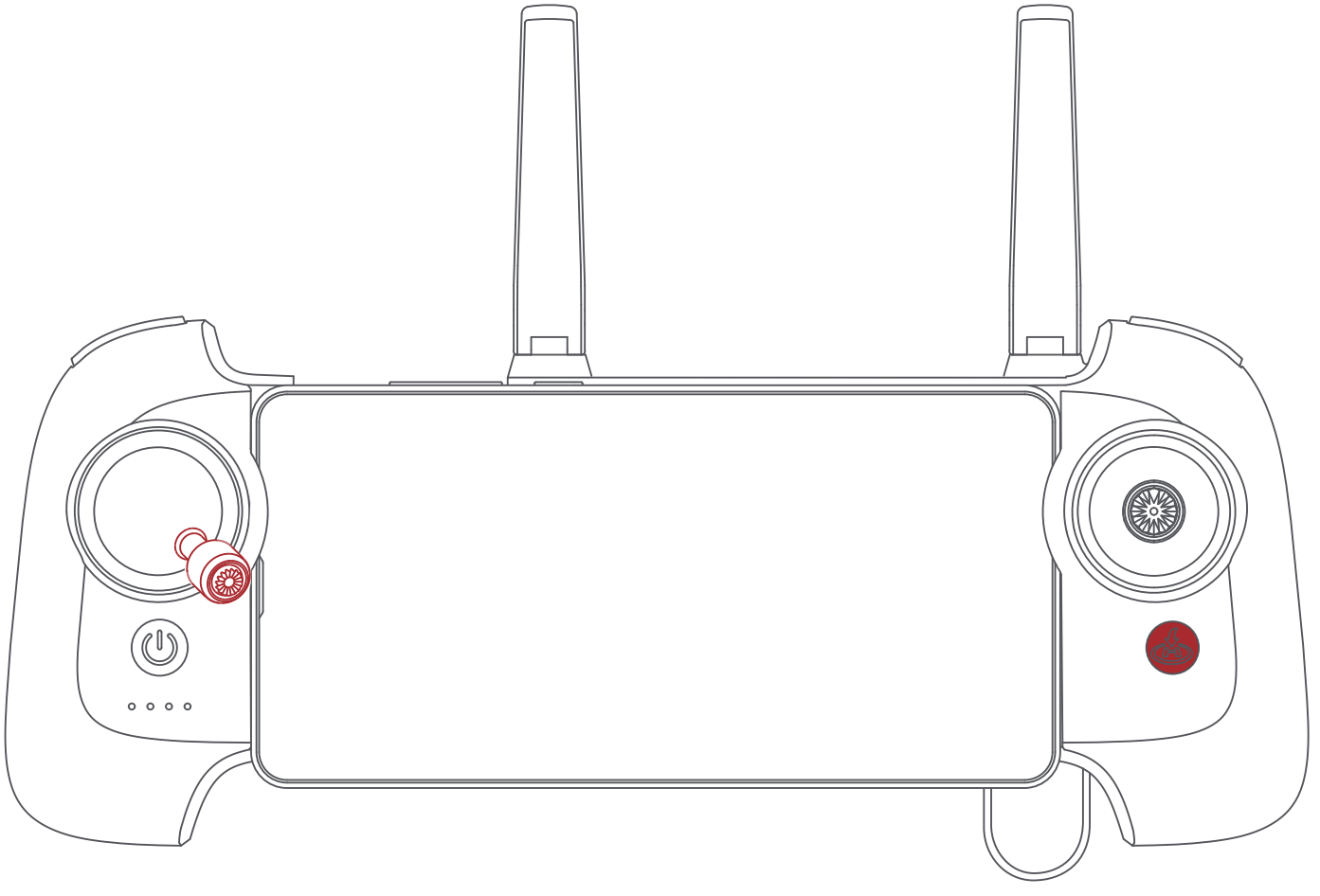


Left stick Right stick

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

2 Stop propellers in emergency

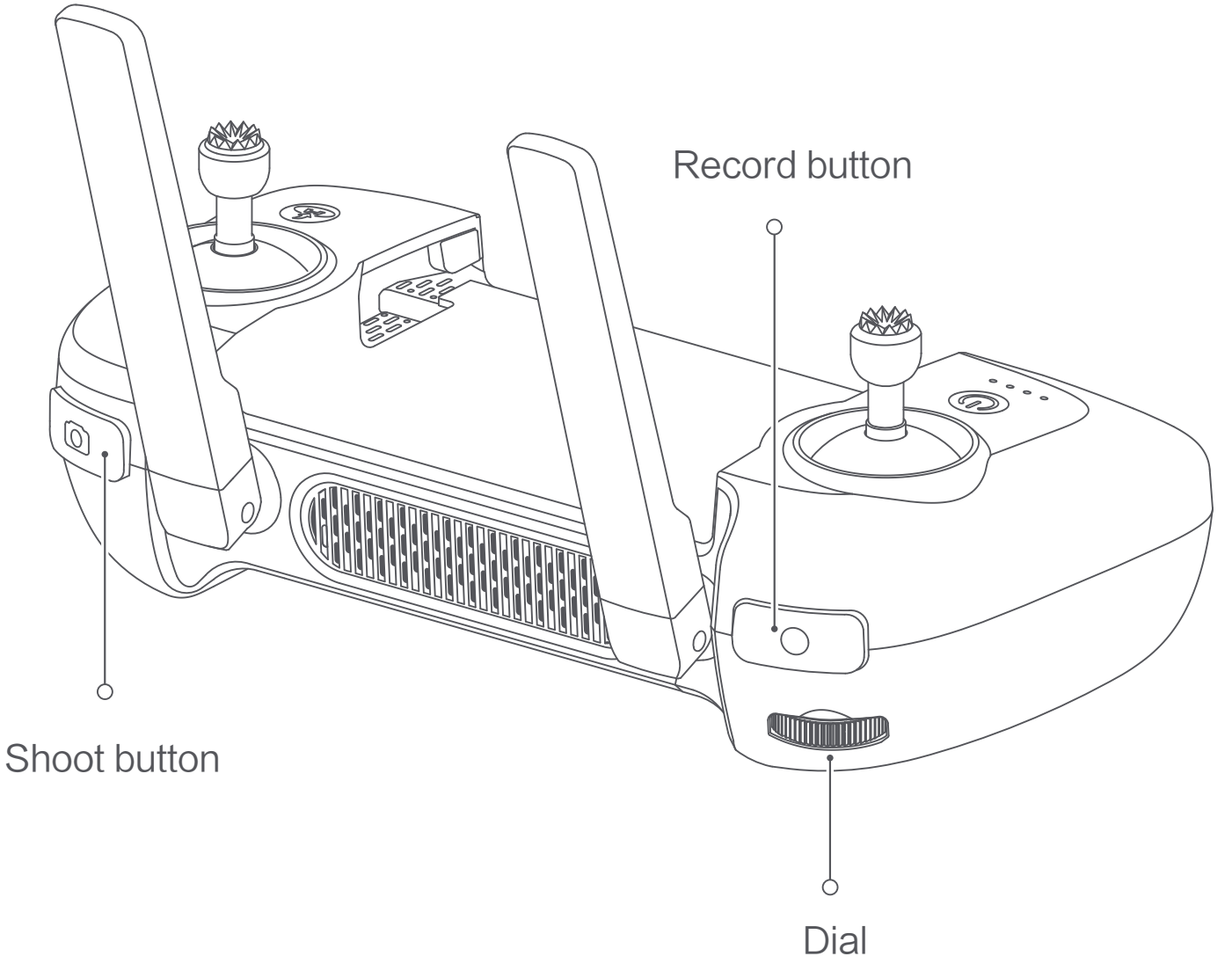
- When motors can't be properly turned off, please toggle the left stick to the bottom inner maximum range, and press auto take-off in/landing button for 5 seconds simultaneously, then motors will stop.



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

3 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.
- The pitch angle of the gimbal can be controlled by toggling the left dial up and down.



Light Recognition

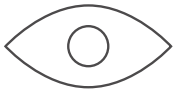
1 Drone light

	Light status	Drone status
1	The yellow light is fading in and out	Self-checking
2	Red light on	Drone on the ground: self-check fails
		Drone is flying: internal error
3	Red and yellow lights flash alternately	Calibrate the compass
4	Red light flashing twice	Ready to fly/in flight
5	Red light flashing twice	Low battery alerts
6	Red light flashing quickly	Very low battery alerts, land as soon as possible
7	Red and green lights flash alternately	Updating firmware
8	All lights off	The drone is paring to the RC

2 Remote controller light

	Light status	RC status
1	All lights are on	Normal connection
2	Lights flash	RC doesn't pair to the drone
3	Lights flash alternately	Pairing or firmware updating

Safety Flight

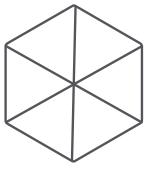


In visual range

+

Good GPS signal

+



Open and unobstructed environment

Safety tips：

Fly only in open area, 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 areas 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.

The FIMI X8 Mini Drone should be installed and operated with minimum distance 20cm between the radiator & your body.

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