



kogan KA4KOADRONA 4K Camera Drone with Obstacle Avoidance User Guide

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kogan KA4KOADRONA 4K Camera Drone with Obstacle Avoidance



SAFETY & WARNINGS

Ensure to read all instructions and warnings in this user guide prior to first use. Retain this user guide for future reference.

WARNING:

This drone may need to be registered. Check with your local authority on the rules for registration.

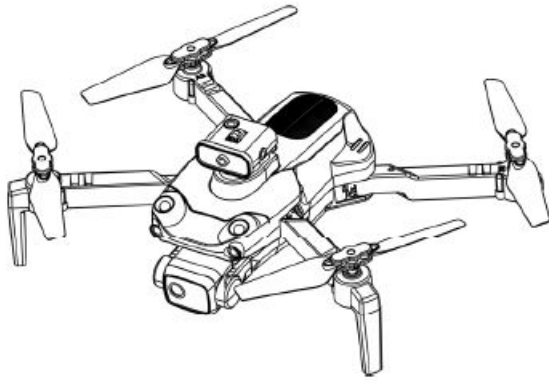
- Do not attempt to touch the drone whilst it is operating under any circumstances.
- This drone is not a toy and can be dangerous when used incorrectly. Follow all instructions while operating. Disassembling or modifying the drone arbitrarily, operating improperly, or being unfamiliar with this product may lead to an accident and possible injuries.
- This drone is intended for use by persons aged 14 years or older. It is recommended that people between 14-18 years operate the drone under adult supervision.
- Ensure the drone is operated in a safe environment.
- It is recommended that you seek the assistance of an experienced drone pilot before attempting to fly the drone for the first time. Asking a local expert is the best way to properly assemble, set up, and fly your drone for the first time. It requires a certain degree of skill to operate and is subject to normal wear and tear.
- Do not fly this drone higher than 120 meters above ground level.
- Do not fly multiple drones simultaneously. Only one drone can be flown at any given time.
- Do not allow drones to fly out of visible range.
- Ensure the drone is flown at least 30 meters away from any people.
- Do not fly the drone over populated areas (for example, beaches, parks, and event venues).
- Do not fly drones within 5.5km of airports. Many locations are considered no-fly zones and you must ensure that you fly in areas that align with local laws and ordinances.
- Do not record or photograph people without consent.
- Drones are prone to accidents and failures when piloted incorrectly. Operators are responsible for their actions as well as any damage or injury caused by pilot error and radio interference.
- This drone is suitable for indoor and outdoor use. Always fly in a place clear of obstacles and do not fly the drone in a way that would cause hazards to nearby people and property.

- Do not operate the drone in unsafe conditions and keep clear of heat sources, wires, or electric power sources.
- Do not fly the drone over areas affecting public safety or where there are emergency operations taking place.
- This drone contains electrical components. Always keep this drone away from water and other liquids.
Exposure to water or moisture in any form can cause this drone to malfunction resulting in a crash.
- To avoid a potential fire hazard, do not short, reverse the polarity, or puncture batteries. Battery charging must be done under supervision and in a location out of reach of children.
- Remove the batteries if they will not be used on the drone for an extended period. Always dispose of old batteries according to the laws of local environmental authorities.
- Li-Polymer batteries pose higher operational risks compared to other battery types; thus it is imperative to follow its usage instructions.
- Avoid contact between the battery and metallic objects.
- If there is an increase in battery temperature after the operation, cease use immediately and allow it to cool down. Continuous use of this battery may cause it to expand, deform, explode, or result in potential fire hazards.
- Do not place heavy objects directly onto the drone or any of its components.
- Images used in this user guide are for reference only.

Battery warnings

- There is a certain risk when using a lithium battery. It may cause fire, bodily injuries, or property loss. Users must be aware of the risks and take full of responsibility if using the battery improperly.
- If battery leakage occurs, avoid contact with your eyes or skin. If there is contact, wash your eyes with water and seek medical care immediately.
- Remove the plug immediately if there is any peculiar smell, noise, or smog.
- Do not use third-party chargers.
- Do not charge a diluted or outworn battery.
- Do not overcharge the battery. Unplug the charger once fully charged.
- Do not charge the battery next to inflammable (for example, carpet, timber floors, wood furniture, or on the surface of electro-conductive objects).
- Always keep an eye on the battery when charging.
- Do not charge the battery if it has not had sufficient time to cool after use.
- The ambient temperature when charging is between 0–40°C.
- Do not dispose of the battery as rubbish. Familiarise yourself with the local disposal laws and follow them accordingly.

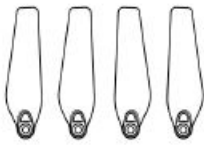
COMPONENTS



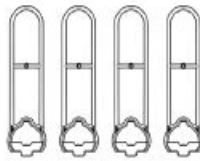
A Drone (x1)



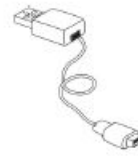
B Remote control (x1)



C Spare propellers (x4)



D Protective guards (x4)



E USB charging cable (x1)



F Batteries (x2)



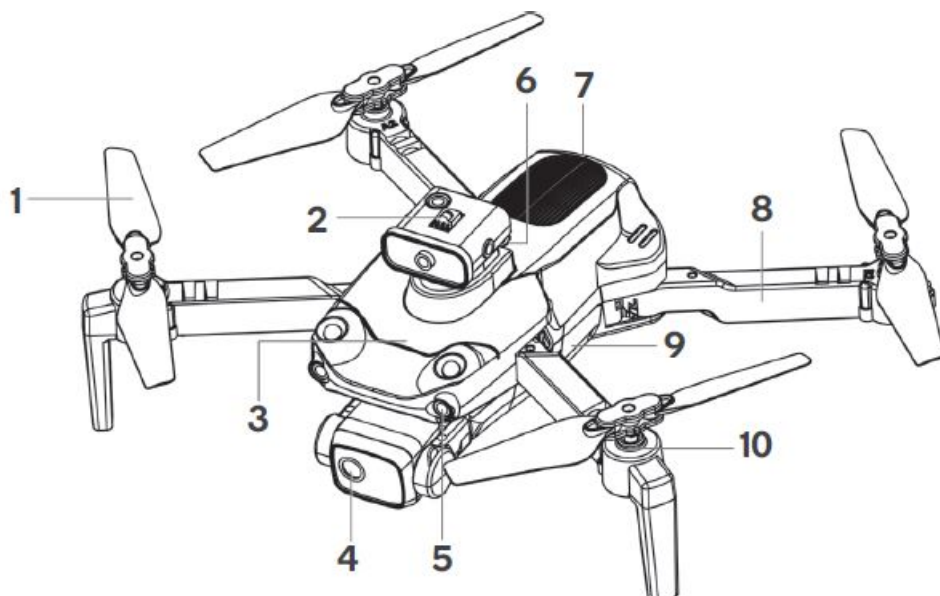
G Screwdriver (x1)



H User guide (x1)

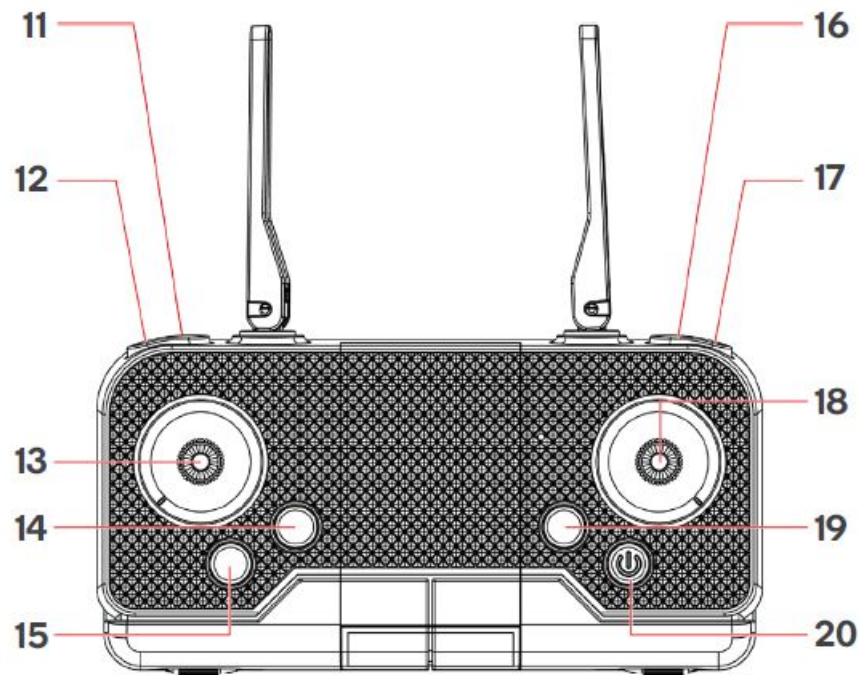
OVERVIEW

Drone



1. Propeller
2. Obstacle avoidance sensor
3. Upper casing
4. Camera
5. Indicator light
6. Power button
7. Battery
8. Arm
9. Lower casing
10. Motor

Remote control



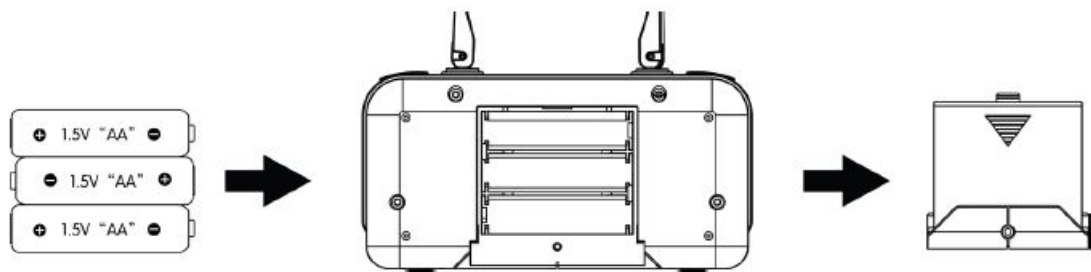
11. Trim button
12. Speed/headless mode button
13. Left joystick
14. Camera angle up button
15. Camera angle down button
16. Capture/record button
17. Flip and roll/return button
18. Right joystick
19. Take-off/land/emergency stop button
20. Power/obstacle avoidance button

BEFORE FIRST USE

Remote control

The remote control needs x3 AA batteries (not supplied) to operate.

1. Open the battery cover.
2. Noting the polarity markings (+/-), insert x3 AA batteries into the remote control. Reattach the battery cover.



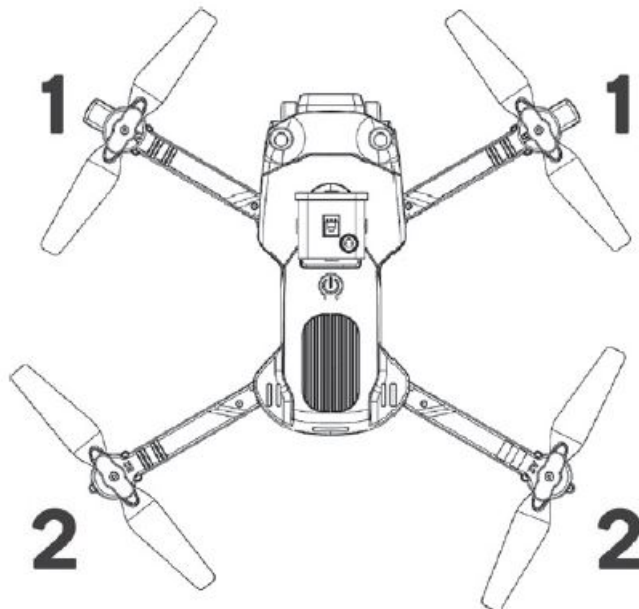
Notes:

- Do not mix old and new batteries together.
- Do not mix different types of batteries.

Drone

Arms

Open the front arms closest to the camera, then open the back arms.

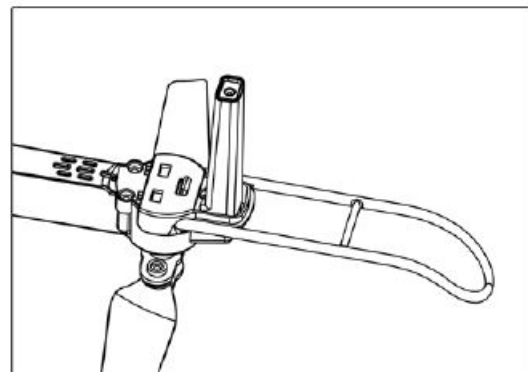
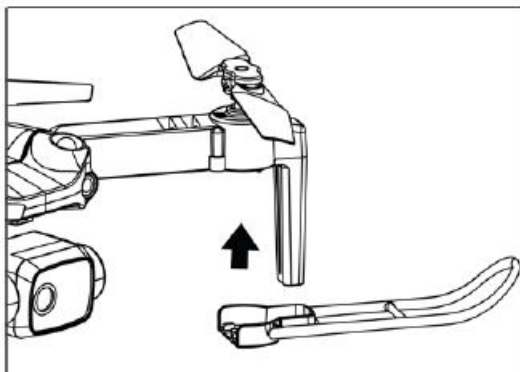


Note:

After use, fold the back arms in before folding the front arms.

Protective guards

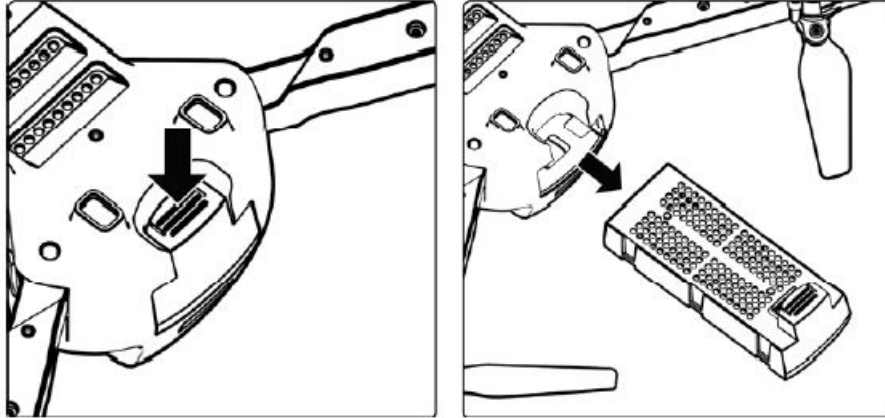
Align the protective guards with the motors on the arms, then attach them by pressing them into place.



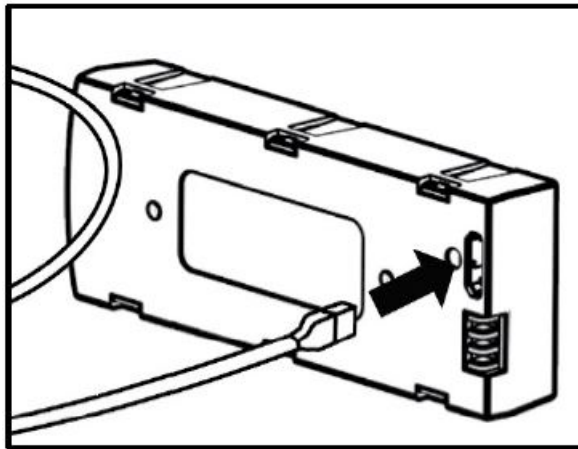
Battery for the drone

The battery must be charged before first use.

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



2. Connect the USB charging cable to the charging port on the battery and a power adapter (not supplied). Plug the power adapter into a socket and switch it on to charge.



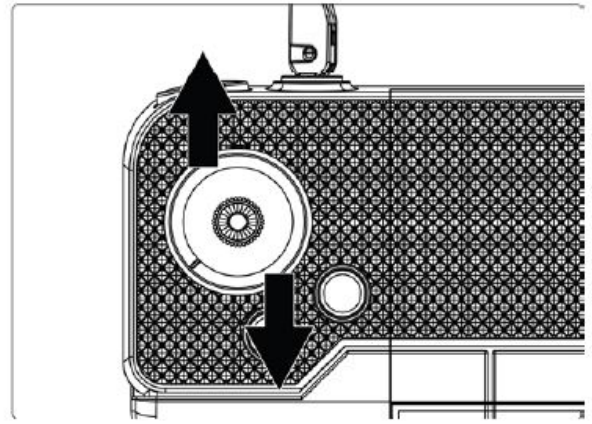
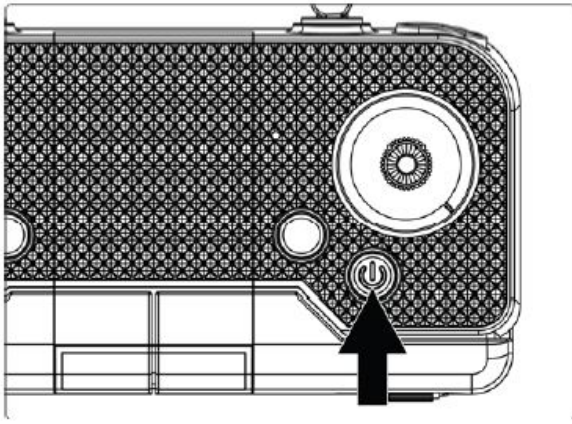
Notes:

- The lights on the battery will illuminate red when charging. The battery lights will turn off when fully charged.
- A full charge takes around 60–90 minutes.

3. After charging, reattach the battery to the drone.

Connecting the signals of the transmitter and receiver

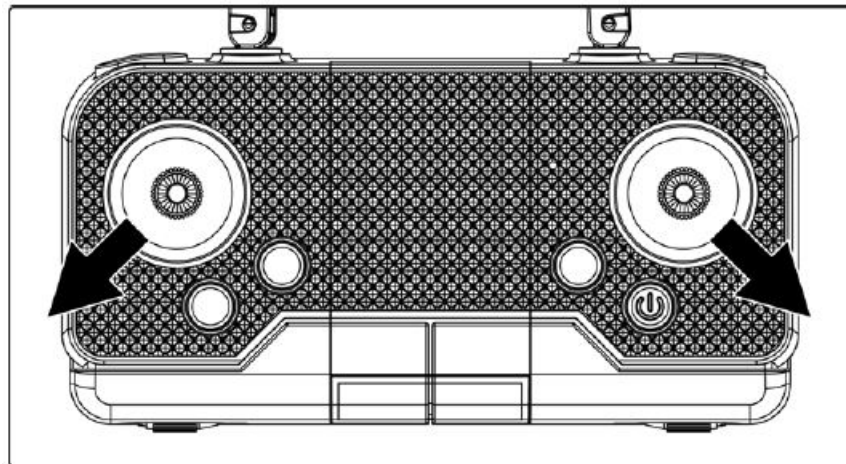
1. Long press the power button on the drone and remote control to turn on the drone and place it on a level surface. The indicator lights of the transmitter and drone will be flashing.
2. Push the left joystick to the highest position upwards then push it down to the lowest position.
3. When you hear two beeps, the indicator lights on the transmitter and drone will become solidly illuminated. The signal connection is now complete.



Calibrating the transmitter with the drone

This calibration can also be used when the drone is drifting or rotating by itself.

1. Long press the power button to turn on the drone and place it on a level surface.
2. Move and hold the left and right joysticks on the remote control for three seconds in the positions indicated.
The remote control will make a beep and the indicator lights will flicker.



3. Wait for about three seconds and then the indicator lights will become solidly illuminated. Calibration is now complete.

OPERATION

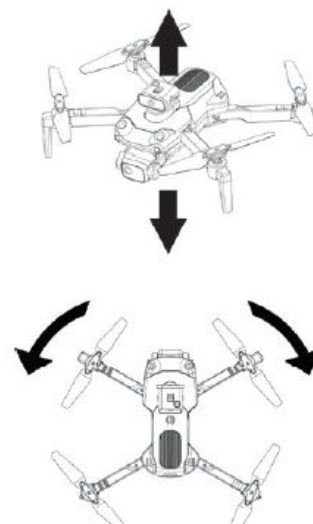
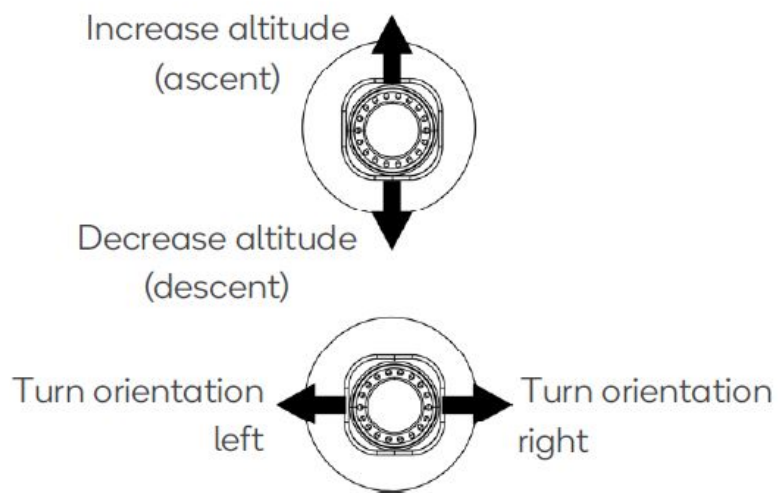
Take-off

1. Long press the power button on the drone and remote control to turn on the drone.
2. Press the take-off button and the drone propellers will start rotating. The drone will automatically fly at a height of 1.5 metres.

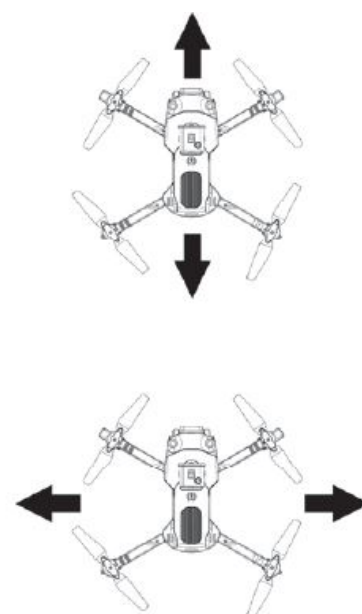
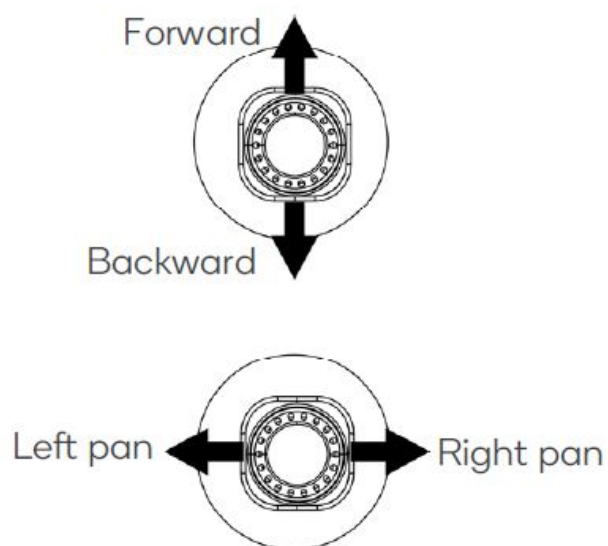
Flight controls

- Use the left joystick to control the flight altitude and to turn the drone's orientation left and right
- Use the right joystick to control the forward, backward, left, and right-pan movements
- If the left joystick is released, the drone will hover at the given height

Left joystick



Right joystick



Note:

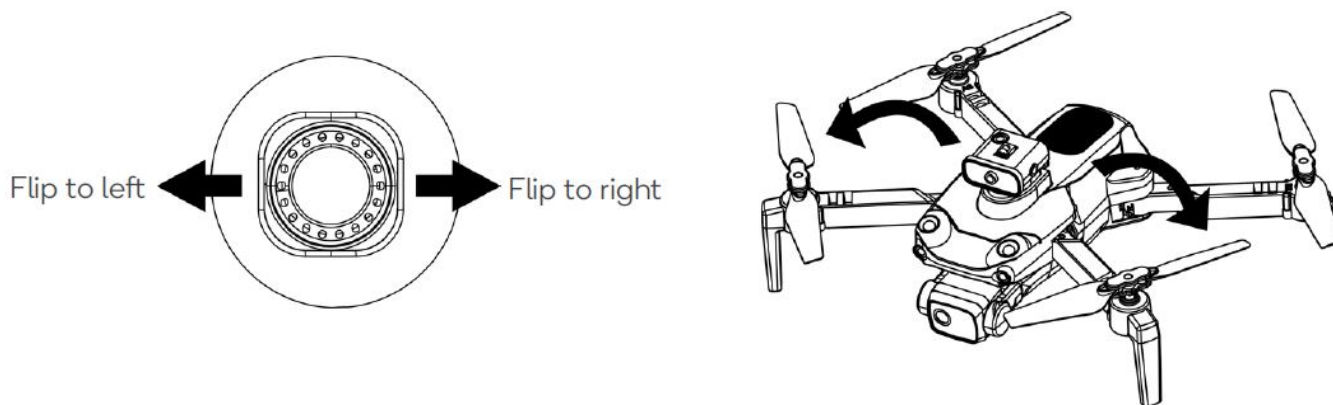
The drone must only be flown during the day in suitable weather conditions. Do not fly the drone through cloud or fog.

Speed

This drone features two-speed settings. Press the speed button to switch between the two speeds.

Flips and rolls

When the drone is more than three meters off the ground, press the flip and roll button and move the right joystick either left or right. The drone will then flip in that direction.



Return

If you wish the drone to come back to its take-off point, long press the return button. The drone will then return to the location where it took off.

Taking photos and recording videos

- Press the capture button and the drone will take a photo
- Press the record button and the drone will start/stop recording video footage

Landing

There are two methods to land the drone:

- Use the left joystick and decrease altitude manually in a desired location and land
- Press the land button. The drone will then automatically slow down and land at its current location.

Emergency stop

The emergency stop should only be used in emergencies. This will result in the motors stopping immediately and cause the drone to free fall and crash onto the ground, which may cause damage. To perform an emergency stop, long press the emergency stop button.

Headless mode

By default, the flight controls of the drone are based on the position of the nose of the drone at any given time. For beginners, this may make the drone difficult to control if the drone changes its orientation.

Activating headless mode allows easier control of the drone as it will move according to the joystick controls regardless of where the nose is facing. To activate the headless mode, long press the headless mode button. The remote control will beep once to confirm. To exit headless mode, long press the headless mode button again. The remote control will beep once to confirm.

Note:

When the drone is flying within 30cm from the ground, it will have reduced drag which may lead to the drone being unstable. The lower the drone flies, the more unstable it will become.

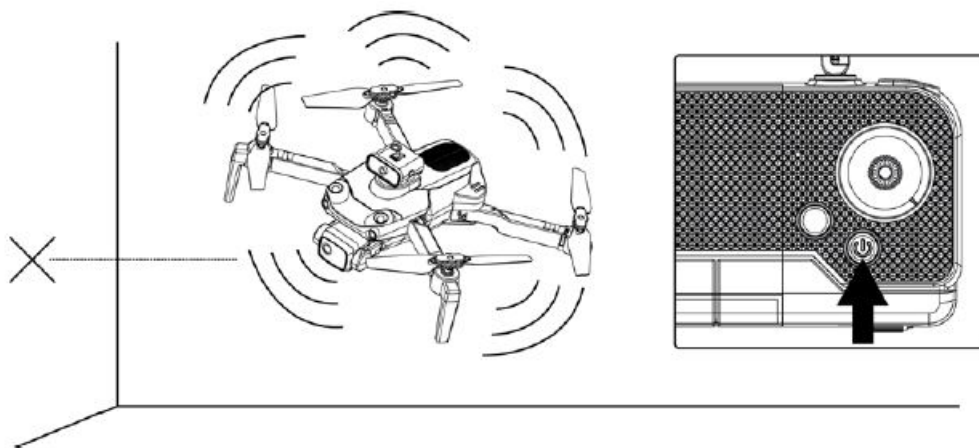
Obstacle avoidance mode

It is recommended to turn on the obstacle avoidance mode when flying indoors in an environment at least six by six meters in area. When turned on, if the drone approaches obstacles on three sides (for example, walls), it will retreat and move in the opposite direction to avoid contact with the obstacles.

Note:

The speed of the drone will also slow down, and the faster speed setting will not function when using this mode.

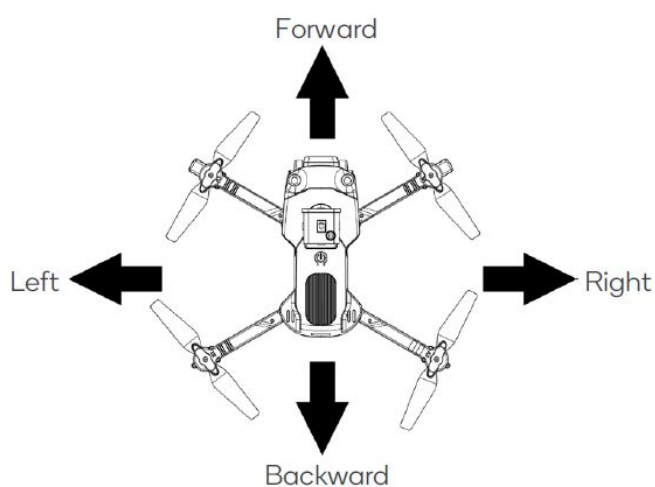
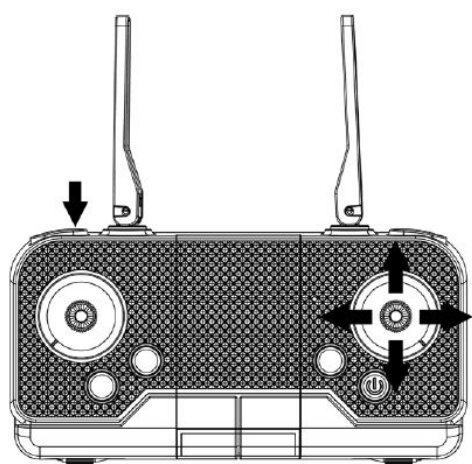
To turn on obstacle avoidance mode, press the obstacle avoidance button. To turn off obstacle avoidance mode, press the same button again.



Trim adjustment

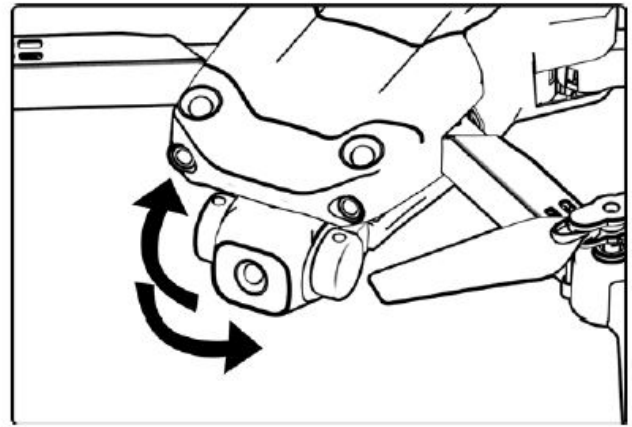
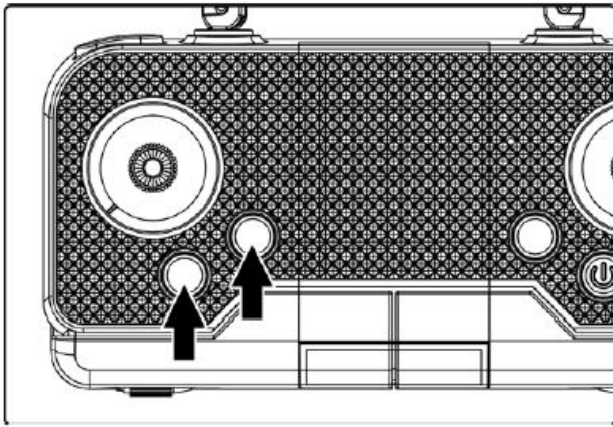
If the drone is deviating off-course or has lost its balance when stationary, trim adjustments will need to be made.

1. Press the trim button and you will hear a beep.
2. Move the right joystick in the appropriate direction to regain balance on the drone. For example, if the drone is tilting towards the right, move the joystick left. Make these adjustments with the joystick until the balance is achieved.
3. After adjusting, once there is no input on the remote control for 5–6 seconds, the remote control will deactivate the trim function and the right joystick can be used normally.



Camera angle adjustment

- Press the camera up button to adjust the camera angle upwards
- Press the camera down button to adjust the camera angle downwards



Powering off

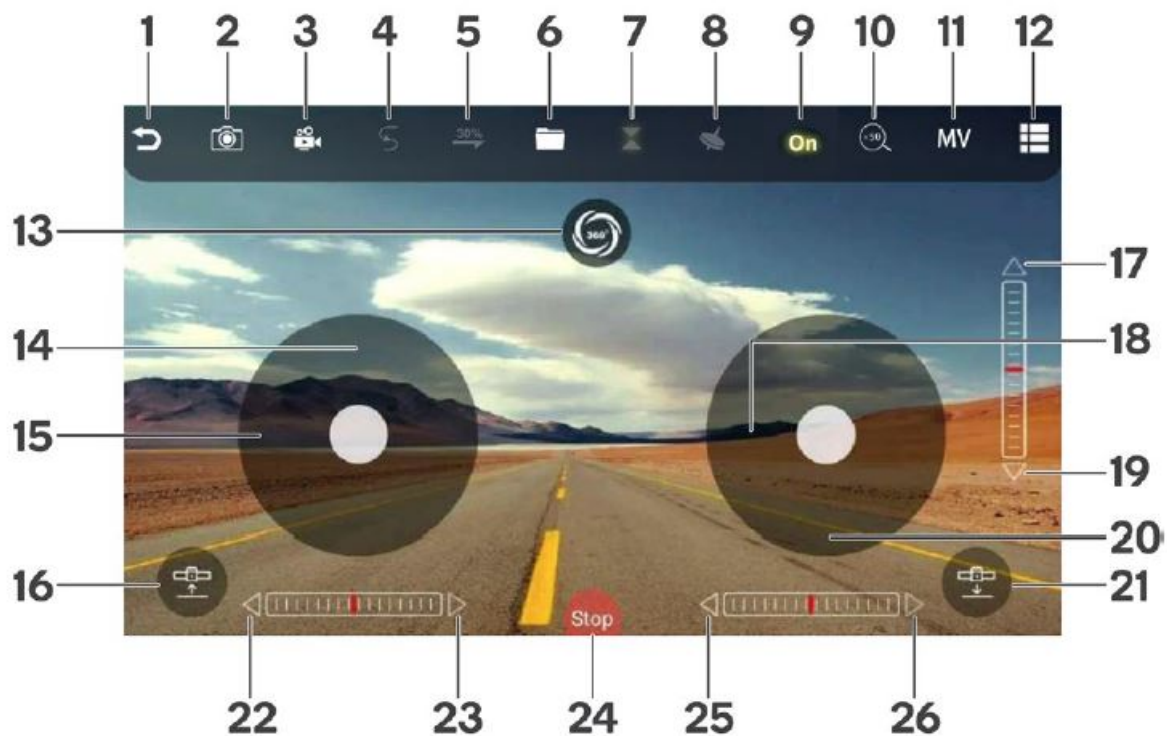
Long press the power button on the drone and remote control to switch the drone off.

WIFI UAV APP

Apart from the remote control, the drone can also be controlled by using the 'WiFi UAV' app.

Interface (before connection)

Press the 'Off' icon to reveal more functions and movement controls.



1. Back
2. Photo
3. Video
4. Flight trajectory
5. Speed control (30%, 60%, 100%)
6. Gallery
7. Altitude hold
8. Gravity control

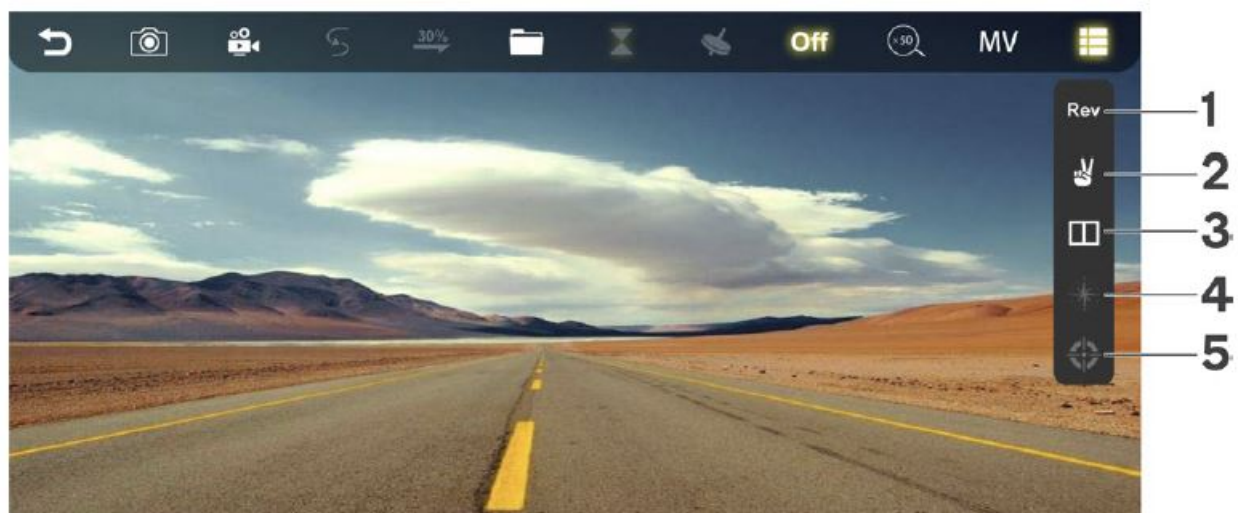
9. Show/hide movement controls
10. Zoom
11. Video options
12. More functions
13. 360° flips and rolls
14. Accelerate
15. Pitch
16. Take-off
17. **Trim adjustment:** Forward
18. Flying sideways
19. **Trim adjustment:** Backward
20. Altitude
21. Land
22. **Trim adjustment:** Left
23. **Trim adjustment:** Left
24. Emergency stop
25. **Trim adjustment:** Right
26. **Trim adjustment:** Right

Note:

The flight trajectory function allows users to pinpoint certain areas they wish the drone to fly.

Menu icon (before connection)

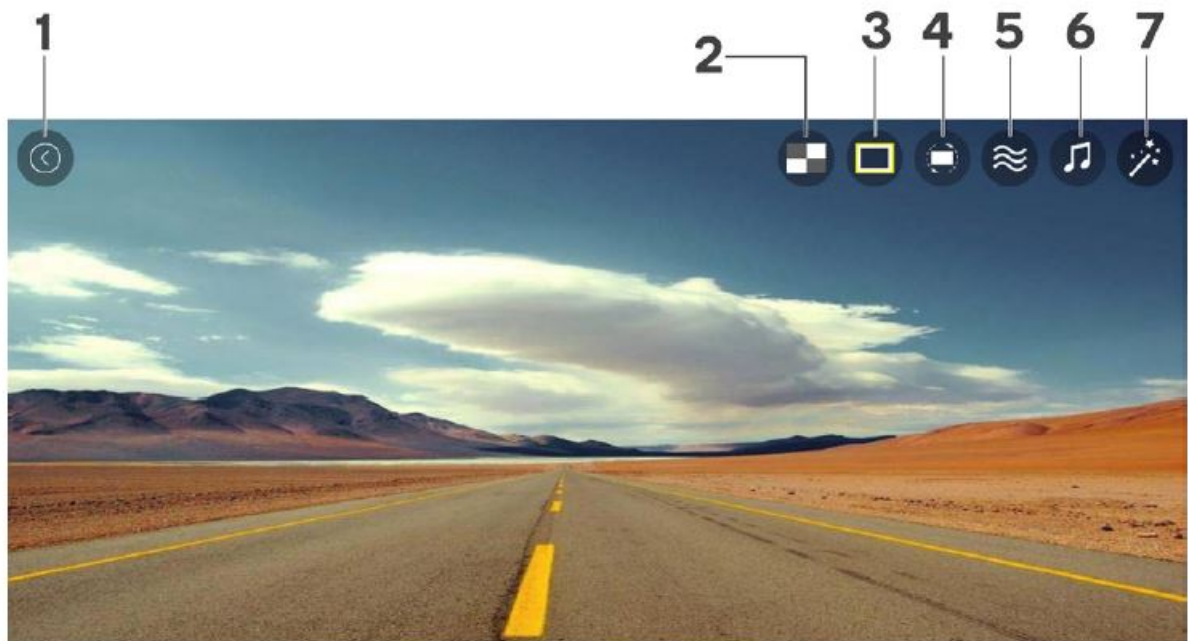
Press the 'Menu' icon to view more options.



1. Reverse camera
2. Gesture control
3. 3D view
4. Headless flight mode
5. Calibration

Video options icon (before connection)

Press the 'Video options' icon to view video settings that can be changed.



1. Back
2. Split screen
3. Aspect ratio
4. Rotate screen
5. Wavy effect
6. Music
7. Filters

App installation

1. Scan the below QR code to download the 'WiFi UAV' app according to your phone's operating system.



iOS

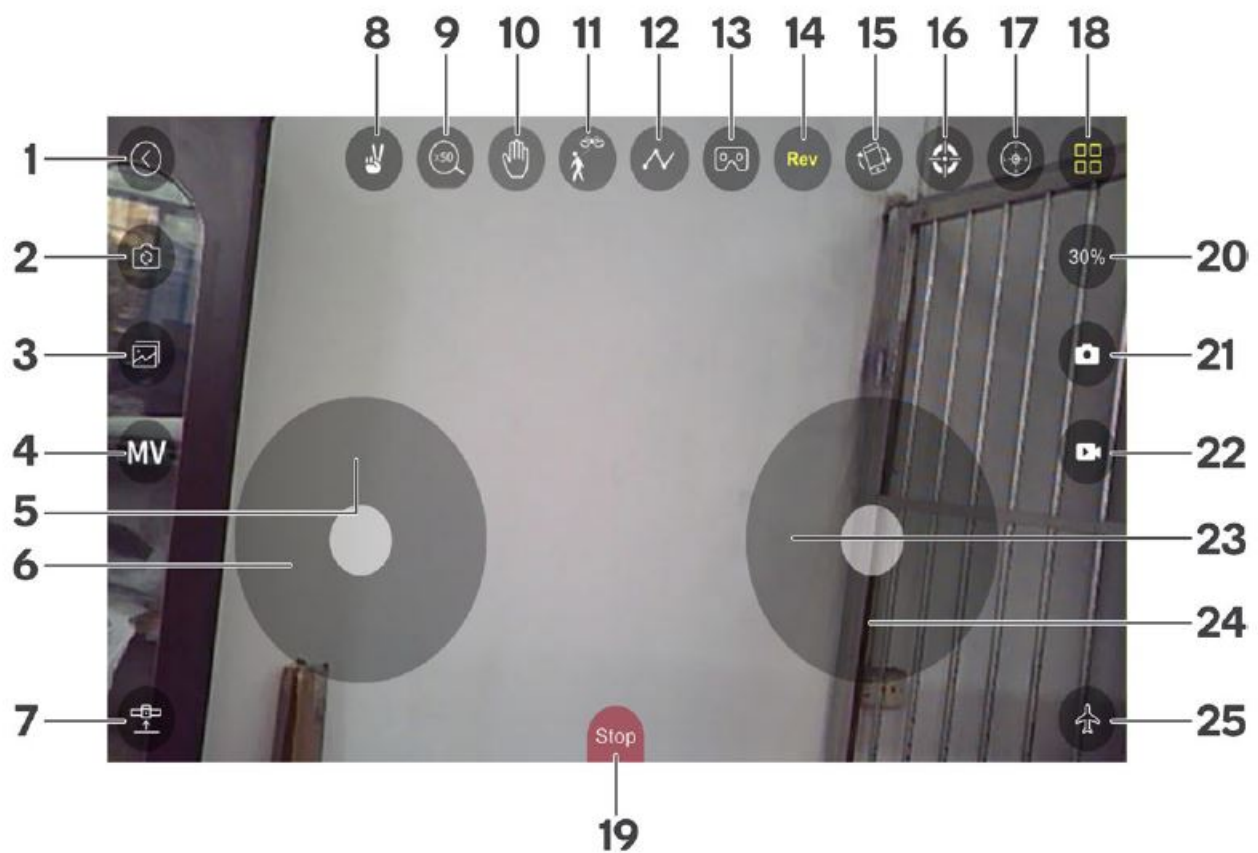


Android

2. Turn on the drone. Enter the Wi-Fi settings of your phone and search for the Wi-Fi network, 'FLOW__4K***'. Tap to connect.
3. Open the 'WiFi UAV' app and tap 'Start' to begin use.



Interface (after connection)



1. Back
2. Shot switching
3. Gallery
4. Video options
5. Ascend/descend
6. Turn left/right
7. Take-off
8. Gesture control (photo)
9. Zoom
10. Gesture control (video)
11. Follow

12. Path
13. VR split screen mode
14. Mirror camera
15. Gravity control
16. Calibration
17. Headless mode
18. More functions
19. Emergency stop
20. Speed control (30%, 60%, 100%)
21. Photo
22. Video
23. Flying sideways
24. Forward/backward
25. Land

Gesture control

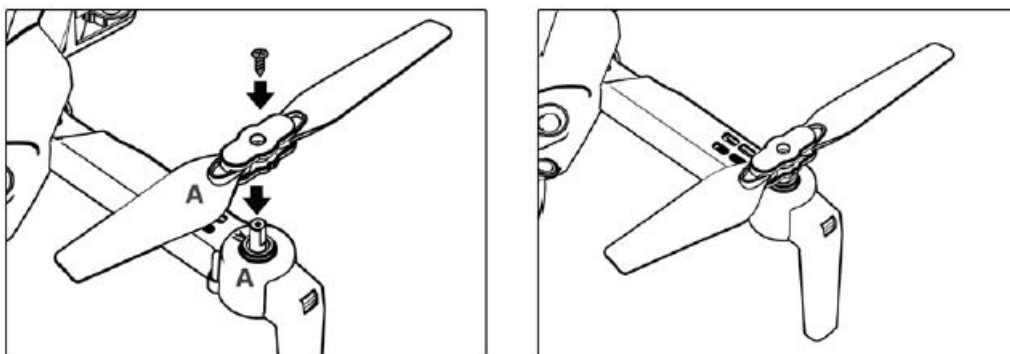
When activated, make a V sign with your right hand towards the camera and the drone will take a photo after three seconds. Face your palm towards the camera and the drone will start a video recording after three seconds. Face your palm towards the camera again to stop recording.

CLEANING & CARE

Once powered off, wipe the drone with a dry cloth.

Propeller replacement

1. Use the screwdriver to remove the screws that are attached to the current propellers. Remove the propellers.
2. Noting the 'A' and 'B' lettering on the spare propellers, insert the spare propellers onto the matching motors.
3. Use the screwdriver to tighten the screws onto the propellers to secure them into place.



TROUBLESHOOTING


Problem	Cause	Solution
The drone is not responding to the remote control.	The battery on the drone is not attached correctly.	Ensure the battery is securely attached to the drone.
	The wind is too strong.	Do not fly the drone in strong wind conditions.
The drone cannot ascend.	The rotational speed of the propellers is too slow.	Push the left joystick up higher.
	The battery of the drone is not fully charged.	Fully charge the battery of the drone.
The drone is landing too quickly/not landing properly.	The left joystick is pushed down too fast.	Push the left joystick down slowly to perform a smooth landing.
The drone cannot be controlled.	The drone is beyond the effective controlling distance.	<ul style="list-style-type: none"> · If using the remote control, ensure the drone stays within 100 meters · If using the 'WiFi UAV' app, ensure the drone stays within 40–50 meters

Need more information?

We hope that this user guide has given you the assistance needed for a simple set-up.

For the most up-to-date guide for your product, as well as any additional assistance you may require, head online to help.kogan.com.

Documents / Resources

<div><div>USER GUIDE</div><div>kugoo.com</div><div></div><div>4K CAMERA DRONE WITH OBSTACLE AVOIDANCE</div></div>	<p>kogan KA4KOADRONA 4K Camera Drone with Obstacle Avoidance [pdf] User Guide KA4KOADRONA, 4K Camera Drone with Obstacle Avoidance, 4K Camera Drone, Drone with Obstacle Avoidance, Camera Drone, 4K Drone, Drone</p>
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