

CN61WRJ464

KF110 Drone User Manual

Model: CN61WRJ464

INTRODUCTION

This manual provides essential information for the safe operation and maintenance of your KF110 Drone. Please read it thoroughly before operating the drone to ensure proper usage and to prevent damage or injury.

PRODUCT OVERVIEW

The KF110 Drone is a lightweight, portable quadcopter equipped with advanced features for an enhanced flight experience. Key features include a 4K camera, 360° obstacle avoidance, GPS+Optical Flow dual positioning, and brushless motors for stable and efficient flight.

Components

- KF110 Drone
- Remote Controller
- Flight Batteries (x2)
- Charging Cable
- Propellers (spare)
- Carrying Case



Figure 1: KF110 Drone package contents, including the drone, remote, batteries, and case.



Figure 2: The KF110 Drone, compact and lightweight, shown held in a hand, emphasizing its portability and weight under 250 grams.



Figure 3: Close-up of the KF110 Drone's camera, highlighting its self-stabilized gimbal and EIS (Electronic Image Stabilization) anti-shake lens for clear imaging.

SETUP

1. Unfolding the Drone

1. Gently unfold the front arms of the drone until they lock into place.
2. Unfold the rear arms. Ensure all arms are fully extended and stable.

2. Battery Installation

- Insert the fully charged flight battery into the battery compartment on the drone until it clicks securely.
- For the remote controller, ensure fresh batteries are installed according to polarity markings.

3. App Download and Connection

Download the official KF110 drone application from your device's app store. Power on the drone and remote controller,

then connect your smartphone to the drone's Wi-Fi network as instructed in the app.

OPERATING INSTRUCTIONS

1. Pre-Flight Checklist

- Ensure batteries are fully charged for both drone and remote.
- Check propellers for any damage or obstructions.
- Select an open, clear area for flight, away from obstacles, people, and animals.
- Verify GPS signal strength before outdoor flight.

2. Take-off and Landing

- **One-Key Take-off:** Press the designated button on the remote controller or in the app to initiate automatic take-off.
- **Manual Take-off:** Push both joysticks down and out to arm the motors, then slowly push the left joystick up to ascend.
- **One-Key Landing:** Press the designated button for automatic landing.
- **Manual Landing:** Slowly pull the left joystick down to descend.

3. Flight Modes

- **GPS Mode:** Utilizes GPS for precise outdoor positioning and stable hovering. Recommended for beginners.
- **Optical Flow Mode:** Uses a downward-facing camera for stable hovering in indoor environments or areas with weak GPS signal.

GPS+ OPTICAFLOW POSITIONING HOVERING IS MORE STABLE



Figure 4: The KF110 Drone demonstrating its GPS and Optical Flow positioning capabilities, ensuring stable hovering both outdoors and indoors.

4. Obstacle Avoidance

The KF110 Drone is equipped with a 360° laser obstacle avoidance system. This system scans the environment up to 20 meters, helping the drone automatically detect and avoid obstacles during flight. This feature enhances safety, especially in complex environments.

OMNIDIRECTIONAL INTELLIGENT OBSTACLE AVOIDANCE FLYING IS MORE SECURE

PORTABLE

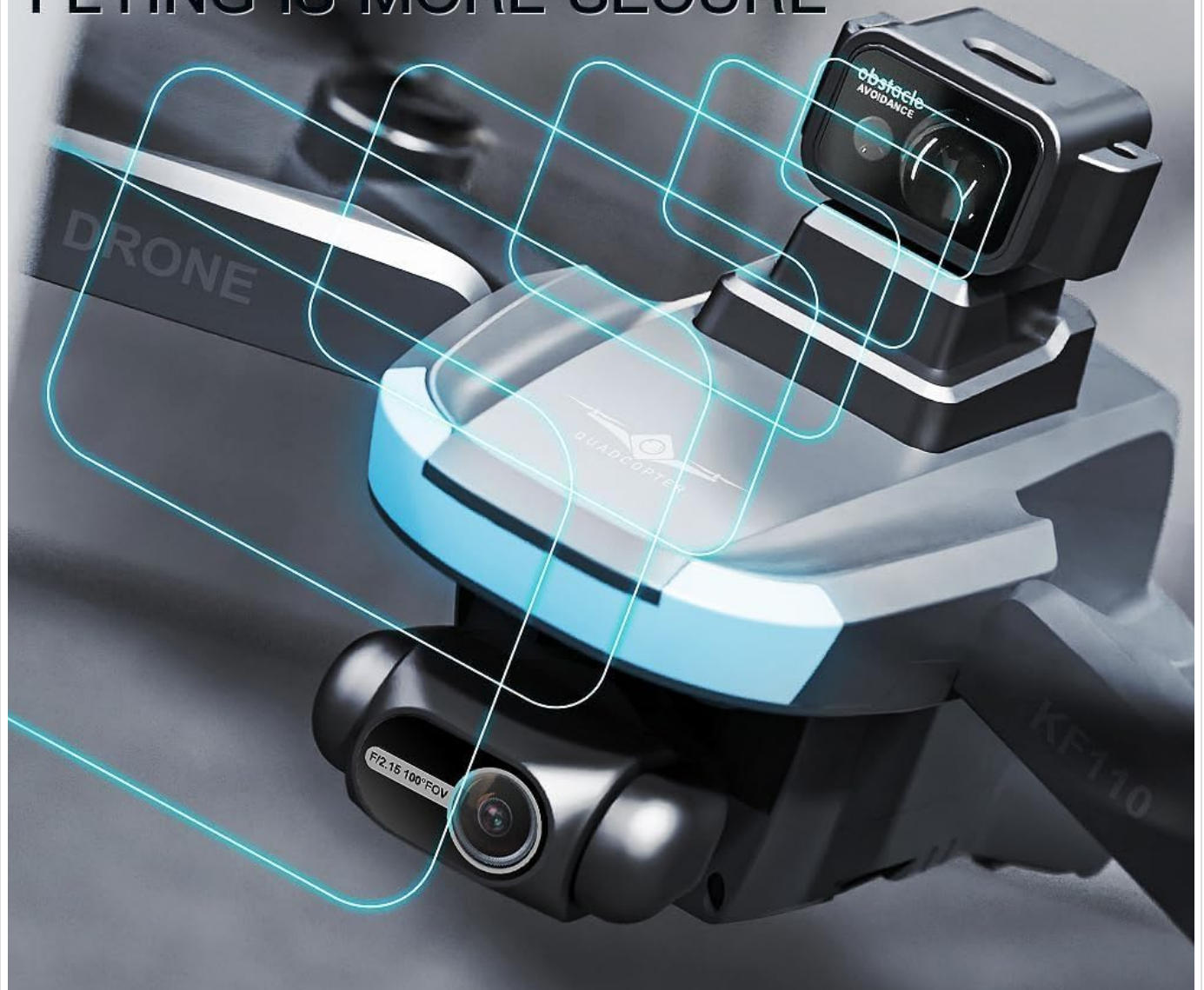


Figure 5: Visual representation of the KF110 Drone's omnidirectional intelligent obstacle avoidance system, showing how it detects and navigates around objects.

5. Camera Functions

- **Photo/Video Capture:** Use the dedicated buttons on the remote or in the app to take 4K photos or record video.
- **Adjustable Camera Angle:** The camera angle can be adjusted remotely to capture various perspectives.
- **Gesture Control:** Perform specific hand gestures to trigger photo or video capture.
- **Follow Mode:** Activate in the app for the drone to automatically follow the operator.
- **Waypoint Flight:** Plan a custom flight path by setting waypoints on the map in the app.



Figure 6: The KF110 Drone showcasing its advanced features: omnidirectional obstacle avoidance, programmed waypoints flight, and gesture recognition for photo/video capture.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the drone body and camera lens. Avoid using liquids.
- **Propellers:** Regularly inspect propellers for cracks or damage. Replace immediately if any damage is found.
- **Battery Care:** Store batteries in a cool, dry place. Do not overcharge or over-discharge. If storing for extended periods, charge to approximately 50%.
- **Storage:** Fold the drone arms and store it in its carrying case to protect it from dust and physical damage.

TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Drone does not power on	Low battery; Battery not properly inserted	Charge battery; Reinsert battery securely
No image from camera	App not connected; Wi-Fi issue	Ensure app is connected to drone Wi-Fi; Restart drone and app
Unstable flight	Weak GPS signal; Propeller damage; Calibration needed	Fly in open area; Replace propellers; Perform IMU calibration
Remote controller not responding	Low remote battery; Not paired	Replace remote batteries; Re-pair remote with drone

SPECIFICATIONS

- **Model:** KF110
- **Weight:** 226 g
- **Unfolded Size:** 23.8 x 26.5 x 5.5 cm
- **Folded Size:** 11.2 x 7.2 x 5.5 cm
- **Max Flight Time:** 22 minutes (per battery)
- **Charging Time:** 3 hours
- **Video Transmission Distance:** Approx. 600 meters
- **Max Flight Altitude:** Approx. 600 meters
- **Battery Capacity:** 7.4V 1320mAh
- **Camera:** Self-stabilising gimbal + EIS Front camera
- **APP Video Resolution:** 2048x1152P
- **TF Card Video Resolution:** 2560x1440P
- **APP Photo Resolution:** 3840x2160P

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the contact details provided with your purchase or visit the manufacturer's official website. Keep your proof of purchase for warranty claims.









Word of Warning	
UK 	<i>Do not use if the packaging is damaged to prevent damage or leakage of the contents.</i>
DE 	<i>Nicht verwenden, wenn die Verpackung beschädigt ist, um Beschädigungen oder Auslaufen des Inhalts zu verhindern.</i>
FR 	<i>Ne pas utiliser si l'emballage est endommagé pour éviter que le contenu ne soit endommagé ou ne fuit.</i>
IT 	<i>Non utilizzare se la confezione è danneggiata per evitare danni o perdite del contenuto.</i>
ES 	<i>Si el embalaje está dañado, no lo use para evitar daños o fugas de contenido.</i>
NL 	<i>Niet gebruiken als de verpakking beschadigd is om schade of lekkage van de inhoud te voorkomen.</i>
SE 	<i>Använd inte om förpackningen är skadad för att förhindra skador eller läckage av innehållet.</i>
PL 	<i>Nie używać, jeśli opakowanie jest uszkodzone, aby zapobiec uszkodzeniu lub wycieku zawartości.</i>

Figure 7: Important warning: Do not use the product if the packaging is damaged to prevent damage or leakage of contents.