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Avnio Aerospace K11

Avnio Aerospace K11 Shoot Premium Drone User Manual

Model: K11

1. INTRODUCTION

This manual provides essential instructions for the safe operation, setup, and maintenance of your Avnio Aerospace K11 Shoot Premium Drone. Please read this manual thoroughly before operating the drone to ensure proper function and to prevent damage or injury.

The Avnio Aerospace K11 is a high-performance drone featuring a 1080P Triple Gimbal Camera, designed for stable aerial photography and videography. It offers a flight time of approximately 30 minutes and includes a unique water bomb shooting function.

2. SAFETY INFORMATION

- **Adult Supervision:** This product is intended for adult use. Children operating the drone must be under direct adult supervision.
- **Flight Environment:** Operate the drone in open, clear areas, away from people, animals, buildings, and power lines. Avoid flying in strong winds or adverse weather conditions.
- **Propeller Safety:** Keep hands, face, and loose clothing away from rotating propellers. Always power off the drone before handling propellers.
- **Battery Safety:** Use only the provided charger and batteries. Do not overcharge or puncture batteries. Dispose of batteries responsibly.
- **Water Bomb Function:** Use the water bomb function responsibly. Do not aim at people or animals. Ensure the water bombs are used in appropriate environments.
- **Pre-Flight Check:** Always perform a pre-flight check to ensure all components are securely attached and functioning correctly.

3. PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- Avnioo Aerospace K11 Drone
- Remote Controller
- Rechargeable Lithium Ion Battery (installed or separate)
- USB Charging Cable
- Spare Propellers
- Water Bomb Container and Water Bombs
- Screwdriver
- User Manual (this document)



Figure 3.1: Contents of the Avnioo Aerospace K11 Shoot Premium Drone package. This image displays the drone, remote controller, spare propellers, USB charging cable, water bomb container, water bombs, and a screwdriver.

4. PRODUCT OVERVIEW

4.1 Drone Components



Figure 4.1: The Avnio Aerospace K11 Shoot Premium Drone in flight configuration, showing the main body, propellers, camera, and water bomb shooter attachment.

- **Propellers:** Four main propellers for lift and thrust.
- **Motors:** Brushless motors for efficient and stable flight.
- **1080P Triple Gimbal Camera:** Integrated camera system for high-definition video and photos, supporting horizontal, vertical, and overhead shooting.
- **Water Bomb Shooter:** Detachable accessory for launching water bombs.
- **Battery Compartment:** Houses the rechargeable Lithium Ion battery.
- **Optical Flow Positioning Sensor:** Assists with stable hovering, especially for beginners.

4.2 Foldable Design

The K11 drone features a foldable arm design for compact storage and portability.



Figure 4.2: The Avnio Aerospace K11 Shoot Premium Drone with its arms folded, demonstrating its compact storage capability.

4.3 Camera Features

The drone is equipped with a 1080P Triple Gimbal Camera system. This system includes a 1080p landscape camera, an HD vertical shot lens, and a bottom HD overhead camera, allowing for versatile shooting angles.

1080p GIMBLE CAMERA

Supports horizontal, vertical, and overhead shooting

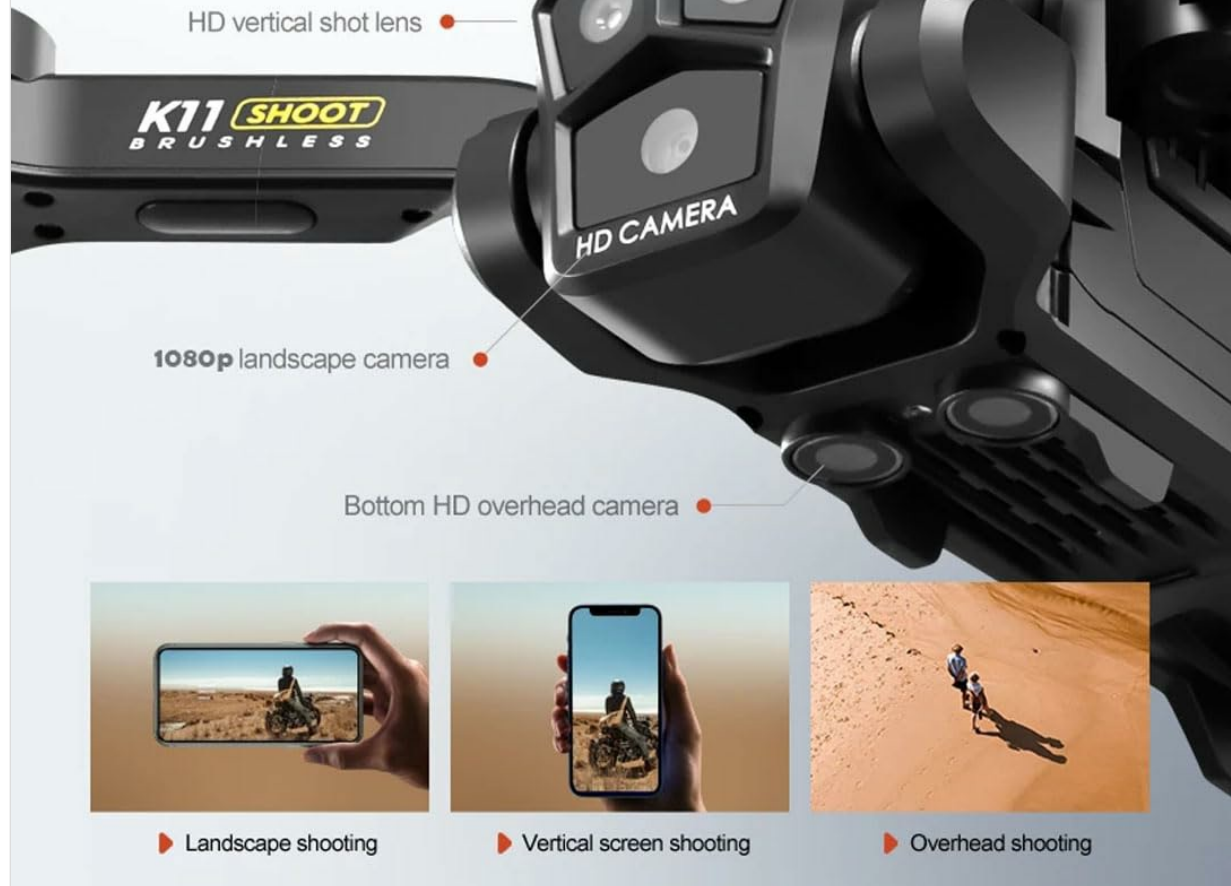


Figure 4.3: Close-up of the 1080P Triple Gimbal Camera, highlighting the landscape, vertical, and overhead lenses. This camera supports various shooting modes including landscape, vertical screen, and overhead perspectives.

The camera's angle can be remotely adjusted up to 90 degrees for optimal framing.

Remote adjustable 90° camera



Figure 4.4: Illustration of the drone's camera, indicating its capability for remote 90-degree angle adjustment.

5. SETUP

5.1 Charging the Battery

1. Remove the drone battery from its compartment.
2. Connect the battery to the USB charging cable.
3. Plug the USB cable into a suitable USB power adapter (not included).
4. The indicator light on the charger will show charging status. Charge until fully charged (refer to battery indicator for full charge).

Note: A full charge provides approximately 30 minutes of flight time.



Figure 5.1: The drone in flight, illustrating its approximate 30-minute flight duration per charge.

5.2 Propeller Installation

If propellers are not pre-installed or need replacement:

1. Identify the correct propeller for each motor (marked A or B).
2. Attach the propellers securely to their corresponding motor shafts. Ensure they are firmly seated.

5.3 Remote Controller Setup

1. Install required batteries into the remote controller (refer to the remote's battery compartment for type and orientation).
2. Power on the remote controller.

5.4 App Installation and Pairing (Wi-Fi/Bluetooth)

For advanced features and real-time camera feed, download the dedicated drone control application on your smartphone.

1. Scan the QR code in the quick start guide or search for the "Avnio K11" app in your device's app store.
2. Install the application.

3. Power on the drone.
4. On your smartphone, enable Wi-Fi or Bluetooth and connect to the drone's network (e.g., "K11-Drone-XXXX").
5. Open the app to establish a connection and view the live camera feed.

6. OPERATING INSTRUCTIONS

6.1 Pre-Flight Check

- Ensure drone and remote batteries are fully charged.
- Check that propellers are securely attached and undamaged.
- Verify the flight area is clear of obstacles.
- Confirm successful pairing between drone and remote/app.

6.2 Takeoff and Landing

1. Place the drone on a flat, level surface.
2. Power on the drone, then the remote controller.
3. Perform calibration if required (refer to app instructions).
4. **Automatic Takeoff:** Press the one-key takeoff button on the remote or in the app. The drone will ascend to a stable hovering height.
5. **Manual Takeoff:** Push both joysticks outwards and downwards to start the motors, then slowly push the left joystick up to ascend.
6. **Automatic Landing:** Press the one-key landing button. The drone will descend and land automatically.
7. **Manual Landing:** Slowly pull the left joystick down to descend, then push both joysticks inwards and downwards to stop the motors after landing.

6.3 Flight Controls

Refer to your remote controller diagram for specific joystick and button functions. Common controls include:

- **Left Joystick:** Ascend/Descend (vertical movement), Rotate Left/Right (yaw).
- **Right Joystick:** Forward/Backward (pitch), Left/Right (roll).
- **Trim Buttons:** Adjust for drift to maintain stable hover.
- **Speed Modes:** Switch between different flight speeds (e.g., beginner, intermediate, professional).
- **Optical Flow Positioning:** This feature assists in maintaining a stable hover, making it easier for beginners to control the drone.



Figure 6.1: Key features of the K11 drone, including the Bobbie Shooter, robust build, brushless motors for strong power and wind resistance, and optical flow positioning for stable hovering.

6.4 Camera Operation

- **Photo:** Press the photo button on the remote or in the app to capture a still image.
- **Video:** Press the video button to start recording. Press again to stop.
- **Camera Angle Adjustment:** Use the dedicated buttons on the remote or app to adjust the camera's vertical angle (up to 90 degrees).

6.5 Water Bomb Function

1. Fill the water bomb container with the provided water bombs.
2. Attach the water bomb shooter module to the drone.
3. Activate the water bomb function via the remote controller or app. The shooter has an approximate range of 6 meters.

Approximately 6
meters range
Accurate Strike

High speed launch of water
bombs, water bombs 90%
moisture, lightweight Crush
at once, safe and reassuring.



Figure 6.2: The drone's water bomb shooter in action, illustrating its effective range of approximately 6 meters.

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the drone and remote controller. Avoid using harsh chemicals or solvents.
- **Propeller Inspection:** Regularly inspect propellers for cracks, bends, or damage. Replace damaged propellers immediately using the provided spare parts.
- **Battery Care:** Store batteries in a cool, dry place. Do not store fully charged or completely depleted for extended periods. Charge periodically if not in use.
- **Storage:** When not in use, fold the drone arms and store it in a safe, dry place away from direct sunlight and extreme temperatures.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Drone does not power on.	Battery depleted or not properly installed.	Charge the battery fully. Ensure battery is correctly inserted.
Drone drifts during flight.	Improper calibration or wind interference.	Recalibrate the drone. Use trim buttons to adjust. Fly in calmer conditions.
No camera feed in app.	Wi-Fi not connected or app not launched correctly.	Ensure phone is connected to drone's Wi-Fi. Restart the app and drone.
Water bomb shooter not working.	Module not attached correctly or empty.	Verify the shooter module is securely attached. Refill with water bombs.
Short flight time.	Battery not fully charged or aged battery.	Ensure battery is fully charged before flight. Consider replacing aged batteries.

9. SPECIFICATIONS

Feature	Detail
Model Name	Aerospace K11
Brand	Avnio Aerospace
Camera	1080P Triple Gimbal Camera (Landscape, Vertical, Overhead)
Video Capture Resolution	1080p
Flight Time	Approximately 30 minutes
Battery Type	Lithium Ion (Rechargeable)
Connectivity	Bluetooth, Wi-Fi
Skill Level	Professional (suitable for adults)
Product Dimensions	10L x 10W x 10H Centimeters (folded/compact)
Item Weight	240 g
Water Bomb Range	Approximately 6 meters
Special Features	Optical Flow Positioning, Brushless Motors, Foldable Design, Remote 90° Camera Adjustment

10. WARRANTY AND SUPPORT

The Avnio Aerospace K11 Shoot Premium Drone comes with the following:

- **1-Year Warranty:** A 1-year warranty covers manufacturing defects from the date of purchase.
- **1 Time Free Crash Replacement:** This drone includes a one-time free crash replacement. Please refer to the warranty card or contact customer support for terms and conditions regarding this

replacement.

1 YEARS PRODUCT WARRANTY*
1 FREE CRASH REPLACEMENT*



Figure 10.1: The drone in operation, emphasizing the included 1-year product warranty and one-time free crash replacement offer.

For technical support, warranty claims, or inquiries, please contact Avnioo Aerospace customer service through the contact information provided with your purchase or on the official Avnioo Aerospace website.