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AUHIFVAX K10 Max

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Model: K10 Max

1. INTRODUCTION

The AUHIFVAX K10 Max is a foldable quadcopter designed for aerial photography and recreational flight. Featuring a 4K high-definition camera, optical flow positioning, and a three-camera system, it offers stable flight and clear imaging capabilities. Its compact, foldable design ensures portability, making it suitable for various outdoor activities.

Key features include:

- **4K High-Definition Camera:** Captures high-resolution photos and videos.
- **Three Camera System:** Enhances stability and provides multiple perspectives.
- **Optical Flow Positioning:** Ensures stable hovering indoors and outdoors.
- **Foldable Design:** Easy to transport and store.
- **Obstacle Avoidance:** Intelligent 360° obstacle avoidance for safer flight.
- **Altitude Hold Mode:** Maintains a consistent altitude for stable flight.
- **Wi-Fi Connectivity:** Connects to a mobile app for real-time image transmission and control.

2. SAFETY GUIDELINES

Always prioritize safety when operating the K10 Max Drone. Failure to follow these guidelines may result in injury, damage to property, or legal consequences.

- **Read the Manual:** Thoroughly read and understand this manual before operating the drone.
- **Pre-Flight Check:** Ensure all components are correctly installed and batteries are charged.
- **Environmental Conditions:** Do not fly in strong winds (max wind speed resistance <10km/h), rain, snow, or fog. Avoid extreme temperatures.
- **Clear Area:** Operate in open areas free from people, animals, buildings, trees, power lines, and other obstacles. Maintain a safe distance from others.

- **Line of Sight:** Always keep the drone within your visual line of sight.
- **Battery Safety:** Use only approved chargers and batteries. Do not overcharge or puncture batteries. Discontinue use if batteries are damaged or swollen.
- **Respect Privacy:** Do not use the drone to photograph or record individuals without their consent.
- **Local Regulations:** Be aware of and comply with all local laws and regulations regarding drone operation.
- **Age Recommendation:** This product is suitable for Kid, Teen, Adult users. Adult supervision is recommended for younger operators.

3. PACKAGE CONTENTS

Verify that all items are present in the package:



Image: Contents of the AUHIFVAX K10 Max Drone package.

- K10 Max Drone x 1
- Remote Control x 1
- Flight Battery x 1

- Spare Propellers (Wind blades) x 4
- Propeller Protective Frames x 4
- USB Charging Cable x 1
- Screwdriver x 1
- Instruction Manuals x 2
- Storage Bag x 1

4. DRONE COMPONENTS

Familiarize yourself with the different parts of your K10 Max Drone.



Image: Front view of the AUHIFVAX K10 Max Drone in its folded state.

- **Front Camera:** Main 4K camera for aerial photography and video.
- **Top Camera:** Additional camera for varied perspectives.
- **Optical Flow Sensor:** Located on the bottom, assists with stable hovering.
- **Propellers:** Four rotating blades for lift and propulsion.
- **Motor Arms:** Foldable arms holding the motors and propellers.
- **Battery Compartment:** Located on the drone's body for inserting the flight battery.
- **Power Button:** To turn the drone on/off.
- **LED Indicator Lights:** Provide status information during flight.

light and flexible. Easy folding in one second

Folding design



Image: The K10 Max Drone's foldable design, shown held in a hand for scale.

5. REMOTE CONTROLLER OVERVIEW

The remote controller is your primary interface for controlling the K10 Max Drone. It operates on a 2.4GHz frequency for anti-interference communication.



Image: The remote controller for the K10 Max Drone, with a smartphone attached to the holder.

- **Left Joystick (Throttle/Direction Lever):** Controls ascent/descent and rotation (yaw).
- **Right Joystick (Direction Lever):** Controls forward/backward and left/right flight.
- **Power Switch:** Turns the remote controller on/off.
- **One Key Takeoff/Landing:** Initiates automatic takeoff or landing.
- **Obstacle Avoidance Switch:** Activates/deactivates the obstacle avoidance feature.
- **High/Low Speed Switching:** Toggles between different flight speed modes.
- **Headless Mode/One Click Backward:** Activates headless mode or performs a backward movement.
- **360° Roll:** Executes a 360-degree flip.
- **Right Trim:** Adjusts the drone's drift to the right.
- **Front Fine Tuning:** Adjusts the drone's forward/backward drift.
- **Rear Fine Tuning:** Adjusts the drone's forward/backward drift.
- **Left Trim:** Adjusts the drone's drift to the left.
- **Phone Holder:** Secures your smartphone for FPV (First Person View) and app control.

6. SETUP

6.1. Charging the Battery

1. Connect the flight battery to the USB charging cable.
2. Plug the USB charging cable into a 5V/1A USB power adapter (not included).
3. The indicator light on the charging cable will show charging status (refer to the cable's specific instructions for light indications).
4. Once fully charged, disconnect the battery. Charging time is approximately 60-90 minutes.

6.2. Installing Propellers and Protective Frames

1. Unfold the drone's arms.
2. Attach the propeller protective frames to each motor arm. Ensure they click securely into place.
3. If replacing propellers, use the provided screwdriver to remove the old ones. Match the new propellers to the correct motor (indicated by markings on the propeller and motor shaft, usually A and B).

6.3. Installing the Flight Battery

1. Open the battery compartment on the drone.
2. Insert the fully charged flight battery into the compartment, ensuring it is oriented correctly.
3. Close the battery compartment cover securely.

6.4. Remote Controller Battery Installation

1. Open the battery cover on the back of the remote controller.
2. Insert 3x AAA batteries (not included) according to the polarity markings.
3. Close the battery cover.

6.5. Pairing the Drone and Remote Controller

1. Place the drone on a flat, level surface.
2. Press and hold the drone's power button until the indicator lights start flashing.
3. Turn on the remote controller by pressing its power switch.
4. Push the left joystick (throttle) all the way up, then all the way down. The drone's indicator lights will stop flashing and remain solid, indicating successful pairing.

6.6. App Installation and Wi-Fi Connection

1. Download the designated drone control app (refer to the manual for the specific app name or QR code) from your smartphone's app store.
2. Turn on the drone.
3. On your smartphone, go to Wi-Fi settings and connect to the drone's Wi-Fi network (usually named something like 'K10 Max_XXXXXX').
4. Open the app. You should see the live camera feed from the drone.

7. OPERATING INSTRUCTIONS

7.1. Pre-Flight Checks

- Ensure drone and remote controller batteries are fully charged.
- Check that propellers are securely attached and undamaged.
- Verify that the drone is paired with the remote controller.
- Confirm a clear flight area, free from obstacles and people.

7.2. Takeoff and Landing

- **One-Key Takeoff:** After pairing and calibration, press the 'One Key Takeoff' button on the remote. The drone will automatically ascend to a stable hovering altitude.
- **Manual Takeoff:** Push both joysticks down and outwards simultaneously to unlock the motors. Then, slowly push the left joystick (throttle) upwards to ascend.
- **One-Key Landing:** Press the 'One Key Landing' button. The drone will automatically descend and land.
- **Manual Landing:** Slowly pull the left joystick (throttle) downwards until the drone lands. Once landed, push both joysticks down and inwards to lock the motors.

7.3. Flight Controls

The K10 Max Drone offers 4 channels of control for comprehensive maneuverability:

- **Ascent/Descent:** Left joystick up/down.
- **Forward/Backward:** Right joystick up/down.
- **Left/Right Sideways Flight:** Right joystick left/right.
- **Rotation (Yaw):** Left joystick left/right.

7.4. Special Flight Features

- **Optical Flow Positioning:** The drone uses a bottom-mounted optical sensor to detect ground patterns, enabling precise and stable hovering, especially useful indoors or in areas with minimal wind.

OPTICAL FLOW POSITIONING HOVER INDOOR AND OUTDOOR "AS STABLE AS MOUNT TAI"

Whether indoors or outdoors, it can maintain hovering at all times, making it easy to take photos and get started.



Image: The K10 Max Drone demonstrating stable hovering using optical flow positioning.

- **360° Obstacle Avoidance:** The drone is equipped with sensors that detect obstacles in its path, automatically adjusting its flight to prevent collisions. Activate this feature using the dedicated button on the remote.

K10 MAX DRONE

THREE CAMERA OBSTACLE AVOIDANCE
AERIAL CAMERA



Image: The K10 Max Drone in flight, highlighting its obstacle avoidance capabilities.

- **Altitude Hold Mode:** The drone automatically maintains its current altitude, allowing you to focus on directional control and camera operation.
- **Headless Mode:** In headless mode, the drone's orientation is relative to the pilot, regardless of its actual front direction. This simplifies control for beginners. Activate using the dedicated button.
- **One-Key Return:** Press the one-key return button, and the drone will attempt to fly back towards its takeoff point. Note that this feature relies on the drone's internal sensors and is not GPS-based.
- **Track Flight (App Control):** In the app, you can draw a flight path on your screen, and the drone will autonomously follow the specified route.
- **Orbital Motion (Fly Around in a Circle):** This feature allows the drone to fly in a circle around a designated point, capturing unique video footage.
- **360° Roll (Aerial Stunt):** Press the 360° roll button and move the right joystick in a desired direction to perform an aerial flip.

360° ROLL ONE CLICK AERIAL STUNT

During the flight, 360° tumbling in the air can be achieved with just one click of the remote control, making it cool and eye-catching.



Image: The K10 Max Drone executing a 360-degree roll stunt.

- **Speed Modes:** The drone has 3 levels of switchable flight speeds (low, medium, high) to suit different skill levels and flying conditions.

7.5. Camera Operation

With the app connected, you can control the drone's camera functions:

- **Take Photo:** Tap the photo icon in the app to capture a still image (JPEG format).
- **Record Video:** Tap the video icon to start/stop video recording (MP4 format).
- **Real-time Transmission:** View the live camera feed on your smartphone screen via Wi-Fi.

8. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your K10 Max Drone.

- **Cleaning:** Use a soft, dry cloth to clean the drone body and camera lenses. Avoid using liquids or solvents.
- **Propeller Inspection:** Regularly check propellers for cracks, bends, or damage. Replace any damaged

propellers immediately using the provided screwdriver and spare parts.

- **Battery Care:** Store batteries in a cool, dry place. Do not fully discharge or overcharge them. If storing for extended periods, charge them to about 50-60%.
- **Motor Inspection:** Ensure motors are free from debris and can spin freely.
- **Storage:** When not in use, fold the drone arms and store it in its original packaging or the provided storage bag to protect it from dust and physical damage.

9. TROUBLESHOOTING

If you encounter issues with your K10 Max Drone, refer to the following common problems and solutions:

- **Drone does not respond to remote:**
 - Ensure both drone and remote are powered on.
 - Re-pair the drone and remote controller (Section 6.5).
 - Check remote controller batteries.
- **Drone cannot take off or flies unstably:**
 - Ensure propellers are installed correctly and are not damaged.
 - Calibrate the drone on a flat surface before flight.
 - Check for sufficient battery charge on the drone.
 - Avoid flying in strong winds.
- **No live video feed in the app:**
 - Ensure your smartphone is connected to the drone's Wi-Fi network.
 - Restart the app and the drone.
 - Check if the app has necessary permissions (e.g., Wi-Fi, storage).
- **Drone drifts during flight:**
 - Perform fine-tuning adjustments using the trim buttons on the remote controller (Section 5).
 - Recalibrate the drone's gyroscope.
- **Obstacle avoidance not working:**
 - Ensure the obstacle avoidance feature is activated on the remote.
 - Clean the obstacle avoidance sensors if they are dirty or obstructed.

10. SPECIFICATIONS

Feature	Specification
Brand	AUHIFVAX
Model Name	K10 Max

Manufacturer Part Number	A922
UPC	880424144678
Drone Weight	110g (0.81 Pounds / 13 ounces)
Max Takeoff Weight	<1kg
Product Dimensions (Folded)	9.4"L x 9.4"W x 2.8"H
Material	Plastic (High-strength, corrosion-resistant engineering plastic)
Camera	4K High-Definition (4096*2160 pixels), Three Camera System
Video Capture Resolution	4K, 1080p HD, 720p HD
Video Output Resolution	4K
Video Capture Format	MP4
Supported Image Format	JPEG
Optical Sensor Technology	Optical Flow, CMOS
Connectivity Technology	APP Controller, Remote Control, Wi-Fi Connection
Wireless Communication Technology	Wi-Fi (2.4GHz)
Control Channels	4 channels
Flight Time	Approx. 12 minutes
Max Wind Speed Resistance	<10km/h
Battery Type	Lithium Polymer (Rechargeable)
Special Features	360 Degree Flip, Auto Follow, One key return, Fly around in a circle, Optical flow positioning hover, 360° intelligent obstacle avoidance, Altitude Hold, Headless Mode, Track Flight, 3 Speed Modes, 6-axis gyro
Skill Level	All

11. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation provided with your purchase or contact the seller directly. Keep your proof of purchase for any warranty claims.

Manufacturer: AUHIFVAX