TWSYOXPR K11 Max

TWSYOXPR K11 Max Drone User Manual

Model: K11 Max | Brand: TWSYOXPR

1. Important Safety Information

Please read this manual thoroughly before operating the TWSYOXPR K11 Max Drone. Failure to follow instructions may result in injury, damage to the drone, or property damage. Keep this manual for future reference.

- Operate the drone in open areas, away from people, animals, buildings, and power lines.
- Do not fly in strong winds or adverse weather conditions.
- Ensure the battery is fully charged before each flight.
- Always maintain visual line of sight with the drone during operation.
- Keep fingers and loose clothing away from propellers when the drone is powered on.
- Do not attempt to modify the drone or its components.
- The water bomb function should only be used in appropriate, safe environments, away from people and sensitive objects.

2. Package Contents

Verify that all items are present in your package:

- Aircraft (Drone) x 1
- Remote Control x 1
- Mobile Phone Stand x 1
- Fuselage Battery x 1 (3.7V 2000mAh or 3.7V 1800mAh, depending on batch)
- Spare Blades x 4
- Protective Racks x 4
- USB Charging Cable x 1
- Water Bombs (approximately 3,000 pieces)
- Instructions for Use x 1 (This manual)

Image Description: An overhead view displaying all components included in the TWSYOXPR K11 Max Drone package. This includes the folded drone with the water bomb launcher attached, the remote control, a bag of water bombs, a USB charging cable, a drone battery, a small screwdriver, and four spare propeller blades.

3. Product Overview

The TWSYOXPR K11 Max is a foldable quadcopter featuring an 8K triple camera system, obstacle avoidance, and a unique water bomb launching capability. It is designed for both aerial photography and recreational use.

3.1 Drone Components

Image Description: A close-up view of the TWSYOXPR K11 Max Drone, highlighting the main body, the three-camera system at the front, and the transparent blue water bomb container mounted on top. The drone's arms are folded, showing its compact design.

- **Foldable Arms:** For compact storage and portability.
- **Propellers:** Four propellers for flight, with protective racks for safety.
- **Brushless Motors:** Provide stable and powerful flight with reduced noise.
- **Battery Compartment:** Houses the drone's rechargeable battery.
- **Obstacle Avoidance Sensors:** For enhanced flight safety.

3.2 8K Triple Camera System

The drone is equipped with an advanced 8K triple camera system, offering versatile shooting options:

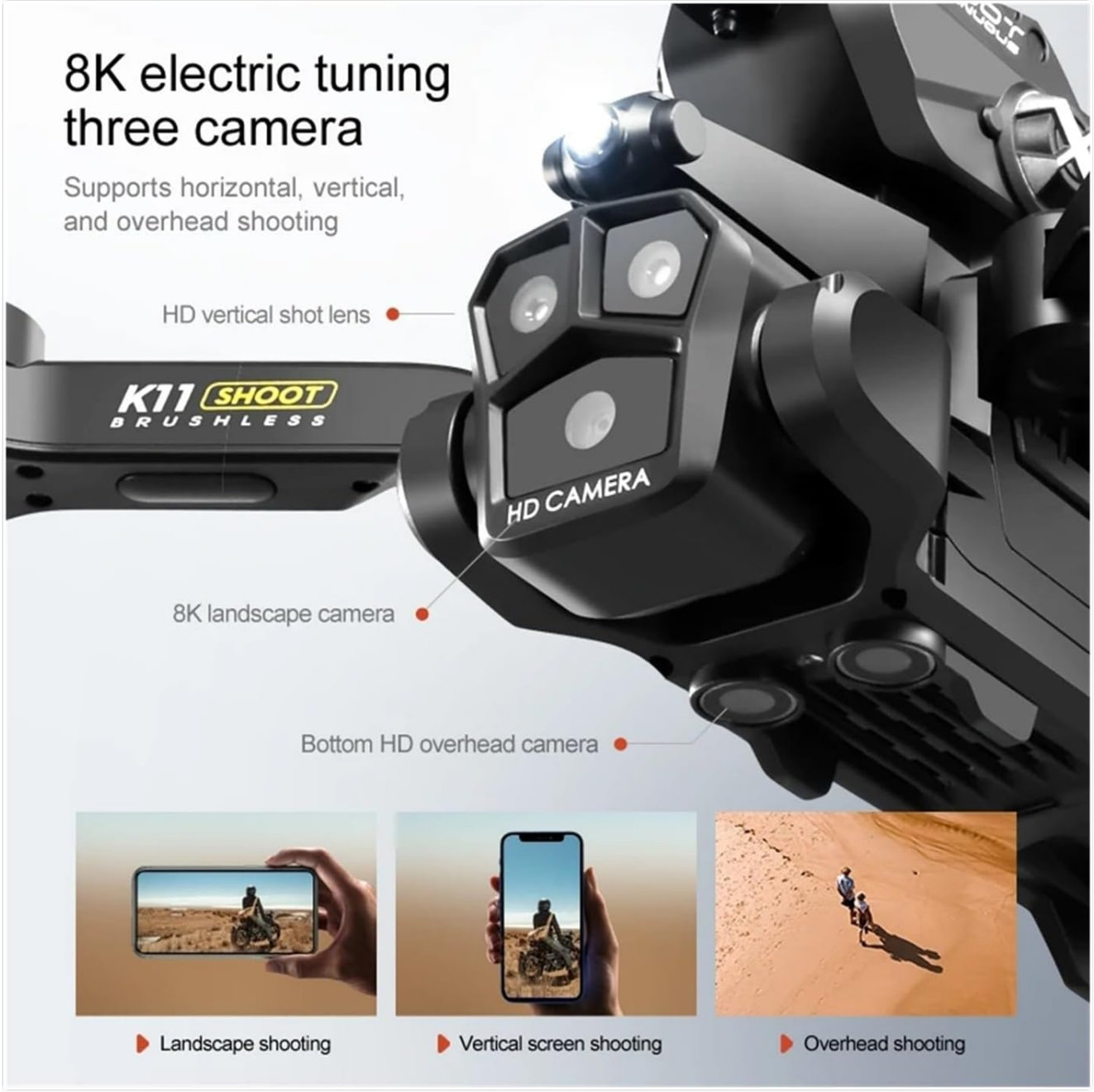

Image Description: A detailed view of the drone's front, showcasing the three camera lenses. Labels indicate an "HD vertical shot lens," an "8K landscape camera," and a "Bottom HD overhead camera." Below, three example smartphone screens illustrate landscape shooting, vertical screen shooting, and overhead shooting perspectives.

- **Front Camera:** 8K landscape camera for wide-angle aerial views.
- **Vertical Camera:** HD vertical shot lens for unique portrait-style aerial photography.
- **Bottom Camera:** HD overhead camera for downward-facing shots and optical flow positioning.
- **Electrically Adjustable:** The camera lens can be adjusted up to 90 degrees.

3.3 Water Bomb Launcher

A unique feature of the K11 Max is its integrated water bomb launcher, adding an interactive element to drone operation.

Image Description: An illustrative image showing the TWSYOXPR K11 Max Drone in flight, launching water bombs. A scale indicates an approximate range of 6 meters for the water bomb projectiles. Text highlights "High speed launch of water bombs, water bombs 90% moisture, lightweight Crush at once, safe and reassuring."

- Supports single-shot and continuous launch modes.
- Water bombs are approximately 90% moisture, designed to crush upon impact.
- Approximate launch range: 6 meters.

4. Setup Guide

4.1 Charging the Drone Battery

1. Remove the drone battery from the aircraft.
2. Connect the USB charging cable to the battery and a suitable USB power adapter (not included).
3. The charging indicator light will show the charging status. A full charge takes approximately 60 minutes.
4. Once fully charged, disconnect the battery from the cable.

4.2 Installing the Drone Battery

1. Ensure the drone is powered off.
2. Locate the battery compartment on the drone.
3. Insert the fully charged battery into the compartment, ensuring it clicks securely into place.

4.3 Installing Propellers and Protective Racks

1. Unfold the drone arms.
2. Attach the protective racks to each motor arm by snapping them into position.
3. If replacing propellers, ensure correct orientation (indicated by markings on the propeller and motor). Securely attach the propellers.

4.4 Remote Control Setup

1. Open the battery compartment on the back of the remote control.
2. Insert 3 x AAA batteries (not included), observing correct polarity.
3. Close the battery compartment.
4. Attach the mobile phone stand to the remote control if you plan to use the app for FPV.

4.5 App Installation and Connection

1. Scan the QR code in the included quick start guide or search for the official TWSYOXPR drone app in your device's app store.
2. Install the app on your smartphone.
3. Power on the drone and then the remote control.
4. On your smartphone, connect to the drone's Wi-Fi network (usually named "K11 Max_XXXXXX").
5. Open the app. The live video feed from the drone's camera should appear, indicating a successful connection.

5. Operating Instructions

5.1 Pre-Flight Checklist

- Ensure drone and remote control batteries are fully charged.
- Check that propellers are securely attached and undamaged.
- Confirm protective racks are installed.
- Choose an open, clear area for flight, free from obstacles and people.
- Verify app connection if using FPV.

5.2 Takeoff and Landing

1. Place the drone on a flat, level surface.
2. Power on the drone, then the remote control.
3. **Pairing:** Push the left joystick up then down to pair the remote control with the drone. The drone's lights will stop flashing and become solid.
4. **Calibration:** Perform gyroscope calibration by pushing both joysticks to the bottom-left or bottom-right corners simultaneously (refer to remote control diagram for exact motion).
5. **One-Key Takeoff:** Press the one-key takeoff button on the remote control or in the app. The drone will automatically ascend to a stable hovering height.
6. **Manual Takeoff:** Alternatively, push both joysticks outwards and downwards to start the motors, then slowly push the left joystick up to ascend.
7. **One-Key Landing:** Press the one-key landing button. The drone will automatically descend and land.

8. **Manual Landing:** Slowly pull the left joystick down to descend. Once landed, pull both joysticks inwards and downwards to stop the motors.

5.3 Flight Controls

The remote control uses a standard quadcopter control scheme:

- **Left Joystick (Throttle/Yaw):**
    - Up/Down: Ascend/Descend
    - Left/Right: Rotate Left/Right (Yaw)
- **Right Joystick (Pitch/Roll):**
    - Up/Down: Fly Forward/Backward (Pitch)
    - Left/Right: Fly Left/Right (Roll)
- **Speed Switching:** Use the speed button on the remote control to cycle through different flight speeds (low, medium, high).
- **Optical Flow Positioning:** Helps maintain stable hovering, especially indoors or in areas with good ground texture.
- **Obstacle Avoidance:** The drone features four-way obstacle avoidance. Fly cautiously, as this system may not detect all obstacles in all conditions.

Image Description: The TWSYOXPR K11 Max Drone in flight, with blue lights on its motor arms. Text highlights "Brushless power Wind resistance and stability enhancement" and explains that it's "Equipped with four low noise, energy-saving, Brushless motor with strong power, wind resistant Better stability."

5.4 Camera Operation

- **Photo/Video:** Use the dedicated buttons on the remote control or the app interface to take photos or start/stop video recording.
- **Camera Angle Adjustment:** The camera angle can be adjusted electrically via the remote control or app.
- **Gesture Shooting/Video Recognition:** Within 150 meters, the drone can recognize specific hand gestures to trigger photo or video recording. Refer to the app's instructions for specific gestures.
- **FPV (First Person View):** View the live camera feed on your smartphone via the app.

5.5 Water Bomb Function

1. Fill the water bomb container with the provided water bombs.
2. Ensure the drone is in a safe flying area, away from anything that could be damaged by water.
3. Use the dedicated water bomb launch button on the remote control or in the app to fire single shots or continuous bursts.

6. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the drone body and camera lenses. Do not use harsh chemicals.
- **Propellers:** Regularly inspect propellers for cracks or damage. Replace damaged propellers immediately using the spare blades provided.
- **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 original packaging or a protective case when not in use.

7. Troubleshooting

Problem	Possible Cause	Solution
Drone does not respond to remote control.	Low battery (drone or remote), not paired, interference.	Charge batteries, re-pair drone and remote, move to an area with less interference.
Drone drifts during flight.	Not calibrated, strong wind, damaged propeller.	Perform gyroscope calibration, fly in calm conditions, check and replace propellers.
No FPV video feed.	Not connected to drone Wi-Fi, app not open, weak signal.	Connect to drone's Wi-Fi, open app, ensure drone is within Wi-Fi range.
Water bombs not launching.	Container empty, mechanism jammed.	Refill water bomb container, check for obstructions in the launch mechanism.

8. Specifications

Feature	Detail
Product Name	K11 Max
Unfolded Dimensions	30 x 24 x 8 cm
Folded Dimensions	13 x 7.5 x 8 cm
Camera System	8K Electrically Adjustable Triple Camera (Front, Vertical, Bottom)
Max Video Resolution	4K (4096 x 2160 pixels)
Frame Rate (FPS)	25 FPS
Obstacle Avoidance	Four-way Omnidirectional
Hovering System	Optical Flow Hovering
Signal Frequency	2.4GHz Wi-Fi
Control Distance	Approximately 100 meters
Drone Battery	3.7V 2000mAh (or 1800mAh)
Flight Time	Approximately 12-15 minutes
Remote Control Battery	3 x AAA batteries (not included)

Feature	Detail
Drone Takeoff Weight (with battery)	110g (or 178g, depending on battery/configuration)
Gesture Recognition Range	Within 150 meters
APP Support	English, Simplified Chinese
Gyroscope	6-axis

9. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or contact the manufacturer directly. Keep your proof of purchase for any warranty claims.
Manufacturer: dongguanshijianyingbaihuoshanghang
Brand: TWSYOXPR