

XK X252

XK X252 RC Quadcopter Drone User Manual

Model: X252

1. INTRODUCTION

Thank you for purchasing the XK X252 2.4G 3D 6 Axis Gyro RC Quadcopter Drone. This manual provides essential information for the safe operation, setup, maintenance, and troubleshooting of your new drone. Please read this manual thoroughly before operating the aircraft to ensure proper function and to avoid damage or injury. Keep this manual for future reference.

Safety Warning: Always operate the drone in open areas, away from people, animals, and obstacles. Ensure all local regulations regarding drone operation are followed.

2. PRODUCT OVERVIEW

2.1 Package Contents

The XK X252 package typically includes the following components:

- XK X252 RC Quadcopter Drone
- Remote Controller
- 720P 140 Degree Camera (integrated or separate, depending on model variant)
- Propellers (main and spare set)
- Battery for Drone
- Battery Charger
- User Manual
- Tools (screwdriver, wrench, etc.)

2.2 Key Features

- **2.4G Remote Control:** Provides stable and responsive control.

- **6-Axis Gyro:** Ensures stable flight and easy control.
- **3D Flight Mode:** Allows for advanced aerobatic maneuvers.
- **5.8G FPV (First Person View):** Real-time video transmission to the remote controller's screen.
- **720P 140 Degree Camera:** Captures high-definition video and photos with a wide field of view.
- **High-Efficiency Brushless Motors:** Provides powerful and durable performance.
- **6G Mode:** Offers enhanced stability, suitable for beginners.
- **"A Key to Shoot" Function:** Simplifies photo and video capture.



Figure 2.2.1: Front view of the XK X252 RC Quadcopter Drone.



Figure 2.2.2: Dimensions of the XK X252 RC Quadcopter Drone (175mm x 175mm).



Figure 2.2.3: Various angles and views of the XK X252 RC Quadcopter Drone.

3. SETUP

3.1 Charging the Drone Battery

1. Connect the drone battery to the provided charger.
2. Plug the charger into a suitable power outlet.
3. The charging indicator light will show the charging status. Charge time is approximately 60-80 minutes.
4. Once fully charged, disconnect the battery from the charger.

3.2 Installing Batteries in the Remote Controller

1. Open the battery compartment on the back of the remote controller.
2. Insert the required batteries (e.g., AA batteries, not included) according to the polarity markings.
3. Close the battery compartment securely.

3.3 Attaching Propellers

1. Identify the correct propellers (A and B) for each motor arm. Propellers are typically marked.
2. Align the propeller with the motor shaft and press down firmly, or use the provided screws/caps to secure them.
3. Ensure all propellers are securely attached and can rotate freely without obstruction.

3.4 Installing the Camera

1. Locate the camera mounting slot on the underside of the drone.
2. Slide the camera into the slot until it clicks into place.
3. Connect the camera's power/data cable to the corresponding port on the drone.

3.5 Binding the Drone and Remote Controller

1. Place the drone on a flat, level surface.
2. Turn on the drone's power switch. The drone's indicator lights will flash.
3. Turn on the remote controller.
4. Push the throttle stick (left stick) all the way up, then all the way down. The drone's lights will become solid, indicating successful binding.



XK **X252**
Specification



720P 140° Camera



Brand: XK
Model: X252
Frequency: 2.4G
FPV: 5.8G
Flying Time: about 12 minutes
Charging Time: 60 - 80 minutes
Control Distance: about 250 - 300m
Motor: 1804 brushless motor

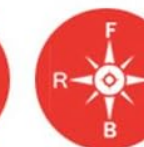


Figure 3.5.1: Overview of XK X252 specifications, including frequency and FPV details relevant for setup.

4. OPERATING INSTRUCTIONS

4.1 Pre-Flight Checklist

- Ensure drone and remote controller batteries are fully charged.
- Check that propellers are securely attached and undamaged.
- Verify the camera is properly installed and connected.
- Choose an open, clear area free from obstacles, people, and animals.
- Check weather conditions; avoid flying in strong winds or rain.

4.2 Basic Flight Controls

Familiarize yourself with the remote controller's layout and functions:

- **Left Stick (Throttle/Yaw):** Up/Down controls altitude; Left/Right controls rotation (yaw).

- **Right Stick (Pitch/Roll):** Up/Down controls forward/backward movement (pitch); Left/Right controls sideways movement (roll).
- **Trim Buttons:** Used to fine-tune the drone's stability if it drifts in any direction.
- **One-Key Take-off/Landing:** Press to automatically take off or land.

4.3 Take-off and Landing

1. **Take-off:** After binding, press the One-Key Take-off button, or slowly push the left throttle stick up until the drone lifts off.
2. **Landing:** Press the One-Key Landing button, or slowly pull the left throttle stick down until the drone lands gently.

4.4 Advanced Features

4.4.1 3D Flight Mode

The X252 supports 3D flight for aerobatic maneuvers. Consult the remote controller's specific button for activating 3D mode. Practice at a safe altitude.



Figure 4.4.1: The XK X252 features high-efficiency brushless motors for powerful 3D flight performance.

4.4.2 6G Mode

For beginners or stable flight, activate 6G mode. This mode uses the 6-axis gyro to provide enhanced stability and easier control.



Figure 4.4.2: The XK X252 in 6G mode, offering stable flight for beginners, and showcasing its no landing gear design.

4.4.3 FPV and Camera Operation

The 5.8G FPV system transmits real-time video to the remote controller's screen. To capture photos or videos, use the dedicated "A Key to Shoot" button on the remote controller. Ensure a compatible SD card (Media Type: SD) is inserted into the camera if required for recording.



Figure 4.4.3: The FPV screen on the remote controller and the "A Key to Shoot" function for easy photo/video capture.

5. MAINTENANCE

5.1 Cleaning

Regularly clean the drone with a soft, dry cloth. Avoid using water or solvents that could damage electronic components.

5.2 Propeller Replacement

Inspect propellers before each flight for cracks or damage. Replace any damaged propellers immediately to ensure safe and stable flight. Refer to section 3.3 for attachment instructions.

5.3 Battery Care

- Do not overcharge or over-discharge the battery.
- Store batteries in a cool, dry place away from direct sunlight and extreme temperatures.
- If storing for extended periods, charge the battery to approximately 50% capacity.

5.4 Storage

When not in use, store the drone and its components in a safe, dry place, preferably in its original packaging or a protective case.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone does not power on	Battery not charged; Battery not connected; Power switch off	Charge battery; Connect battery securely; Turn on power switch
Drone does not respond to remote	Not bound; Remote batteries low; Out of range	Re-bind drone; Replace remote batteries; Fly within control distance
Drone flies unstably	Propellers damaged/loose; Gyro not calibrated; Strong wind	Replace/tighten propellers; Calibrate gyro (refer to remote manual); Fly in calm conditions
FPV image is blurry or absent	Camera not connected; Interference; Camera lens dirty	Check camera connection; Avoid interference sources; Clean lens
Cannot record video/photo	No SD card; SD card full/corrupted; Camera not powered	Insert/replace SD card; Format SD card; Check camera connection

7. SPECIFICATIONS

Feature	Detail
Model Name	X252
Brand	XK
Age Range (Description)	Adult
Color	Black
Video Capture Resolution	720p (1280x720 Pixels)
Connectivity Technology	5.8 GHz (FPV), 2.4 GHz (Remote Control)
Skill Level	Intermediate
Video Capture Format	MP4
Remote Control Technology	Radio Frequency
Control Type	Remote Control
Media Type	SD
Material	Plastic
Battery Cell Composition	Lithium Polymer
Are Batteries Included	No (for remote, drone battery included)

Feature	Detail
Supported Image Format	JPEG
Optical Sensor Technology	CMOS
Flying Time	About 12 minutes
Charging Time	60 - 80 minutes
Control Distance	About 250 - 300m
Motor Type	1804 Brushless Motor
UPC	712994211200
ASIN	B01LAYZ8YW

8. WARRANTY AND SUPPORT

For warranty information, please refer to the specific warranty card included with your product or contact the seller/manufacturer directly. Keep your proof of purchase for any warranty claims.

If you encounter any issues not covered in this manual, or require further assistance, please contact the customer support of your retailer or the manufacturer.