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GoolRC X1

GoolRC X1 RC Drone User Manual

Model: X1 | Brand: GoolRC

Introduction

Thank you for purchasing the GoolRC X1 RC Drone. This drone is designed for adults and features a 4K HD camera, making it ideal for capturing high-quality aerial photos and videos. Its foldable design ensures portability, while features like 3D flips, Headless Mode, Altitude Hold, and Trajectory Flight provide an engaging and user-friendly flying experience. Please read this manual thoroughly before operating the drone to ensure safe and optimal performance.

Safety Information

- Always operate the drone in open areas, away from people, animals, and obstacles.
- Do not fly the drone in strong winds or adverse weather conditions.
- Keep hands and face away from rotating propellers.
- Ensure the drone battery is fully charged before each flight.
- Do not modify or disassemble the drone or its components.
- Supervise children if they are operating the drone.
- Adhere to all local laws and regulations regarding drone operation.

Package Contents

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

- 1* RC Drone
- 1* Remote Controller
- 1* Drone Battery
- 1* USB Cable
- 4* Spare Propeller
- 4* Protection Ring
- 1* Screwdriver
- 1* User Manual

- 1* APP Instruction
- 1* Storage Bag



Image: All components included in the GoolRC X1 drone package.

Product Overview

Drone Components



Image: The GoolRC X1 drone in its unfolded state, alongside its remote controller and storage bag.

The GoolRC X1 drone features a foldable design for easy transport. It is equipped with a 4K HD camera at the front, four propellers, and LED lights for visibility. The arms can be folded inwards for compact storage.

Remote Controller Layout

R / C Description



Image: Detailed diagram showing the functions of the remote controller buttons and joysticks, including throttle, direction, trim adjustments, and special function buttons.

The remote controller includes two joysticks for throttle/direction control, buttons for one-key take-off/landing, photo/video capture, headless mode, and trim adjustments. A smartphone holder is integrated for FPV viewing.

Setup

1. Charging the Drone Battery

- Connect the drone battery to the provided USB charging cable.
- Plug the USB cable into a USB power adapter (not included) or a computer USB port.
- The charging indicator will show the charging status. Charge time is approximately 1.5 hours.

2. Installing Remote Controller Batteries

- Open the battery compartment on the back of the remote controller.
- Insert 3 AAA batteries (not included), ensuring correct polarity.

- Close the battery compartment securely.

3. Propeller Installation (if needed)

- Identify the A and B propellers. Each motor arm is marked with A or B.
- Attach the corresponding propeller to its designated motor shaft.
- Ensure propellers are securely fastened.

4. App Installation and Connection

- Scan the QR code in the 'APP Instruction' manual or search for the GoolRC drone app in your smartphone's app store.
- Install the application.
- Turn on the drone and then your smartphone's Wi-Fi. Connect to the drone's Wi-Fi network (usually named 'GoolRC-XXXX').
- Open the app to view the live FPV feed and access advanced features.

Operating Instructions

1. Power On and Pairing

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

2. One-Key Take-off and Landing

- Press the one-key take-off button on the remote controller. The drone will automatically ascend to a stable altitude.
- To land, press the one-key landing button. The drone will slowly descend and land.

3. Basic Flight Controls

- **Throttle (Left Joystick Up/Down):** Controls altitude.
- **Yaw (Left Joystick Left/Right):** Rotates the drone horizontally.
- **Forward/Backward (Right Joystick Up/Down):** Moves the drone forward or backward.
- **Left/Right Sideways Flight (Right Joystick Left/Right):** Moves the drone left or right.

4. Special Flight Modes & Features



Image: Visual representation of the GoolRC X1 drone's key functionalities.

- **Headless Mode:** Activates a mode where the drone's orientation is relative to the pilot, regardless of the drone's actual front. Press the Headless Mode button to activate/deactivate.
- **3D Flips:** During flight, press the 3D Flip button, then move the right joystick in any direction to perform a 360-degree flip.



Image: The drone executing a stunt roll, demonstrating its 3D flip capability.

- **Trajectory Flight:** In the app, draw a flight path on your screen. The drone will automatically follow the drawn trajectory.
- **Gesture Control:** Use specific hand gestures in front of the camera to trigger photo or video recording.

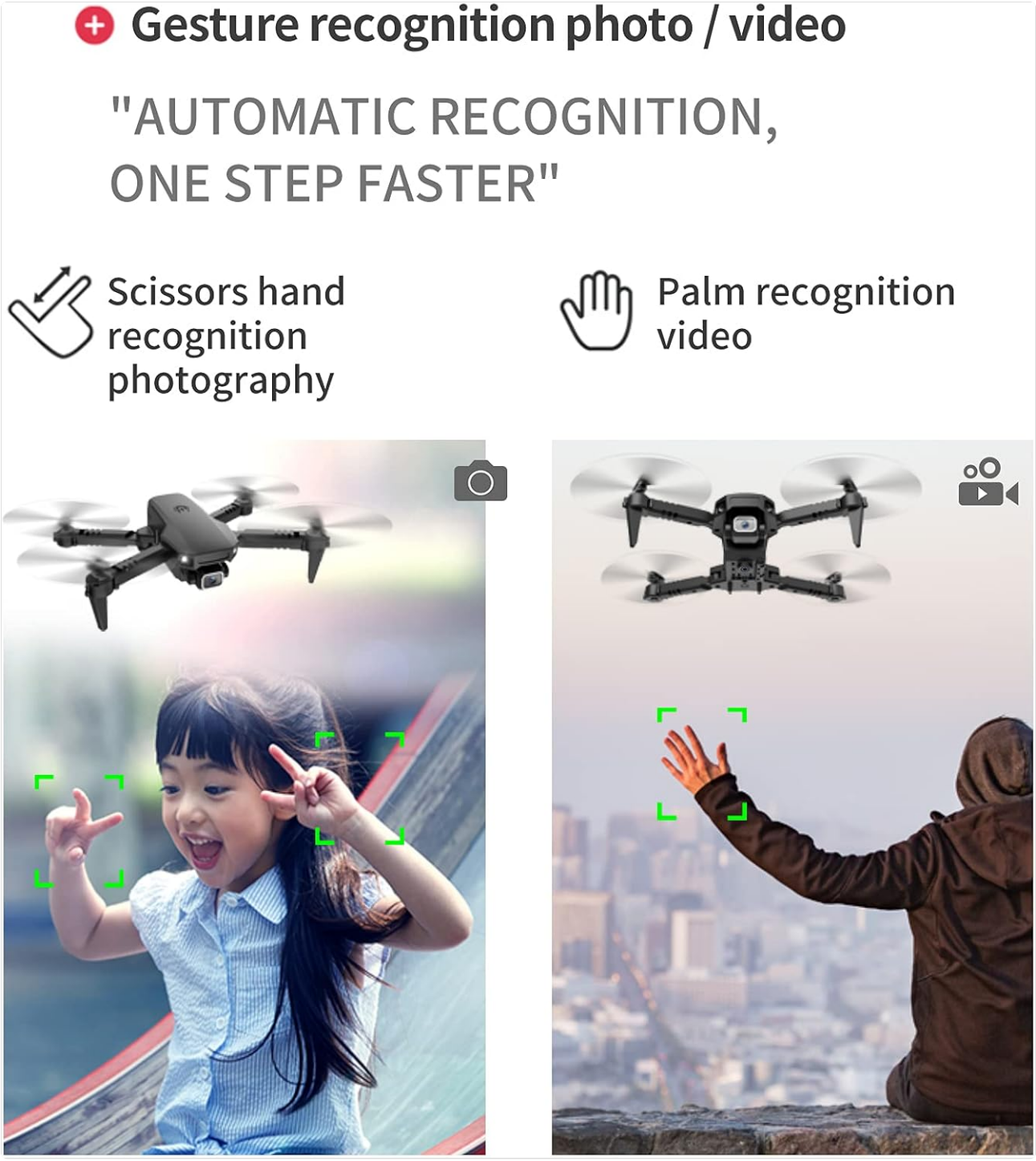


Image: Examples of gesture recognition for automatic photo (scissors hand) and video (palm recognition) capture.

- **Speed Adjustment:** The drone has multiple speed settings (low, medium, high). Press the speed adjustment button to cycle through them. Higher speeds are recommended for outdoor flight.



Image: Illustration of the drone's three adjustable speed levels.

- **Altitude Hold (Barometric Leveling):** The drone maintains a stable altitude automatically after take-off, simplifying control.



Image: The drone's automatic flight height maintenance feature, ensuring stable hovering.

5. Camera Operation (Photo/Video)

- Press the photo button on the remote or in the app to take a still image.
- Press the video button to start recording; press again to stop.
- The 4K camera lens can be adjusted by 90 degrees for optimal shooting angles.



Image: The drone's 4K camera with its 90-degree adjustable lens.

Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the drone and remote controller. Do not use harsh chemicals or solvents.
- **Propeller Care:** Regularly check propellers for damage. Replace any bent or broken propellers with spare ones using the provided screwdriver.
- **Battery Care:** Store batteries in a cool, dry place. Do not overcharge or over-discharge batteries. If storing for extended periods, charge batteries to about 50% capacity.
- **Storage:** When not in use, fold the drone arms and store it in the provided storage bag to protect it from dust and damage.

Troubleshooting

Problem	Possible Cause	Solution
Drone does not respond to remote.	Not paired; low battery; interference.	Re-pair the drone and remote; charge batteries; move to an area with less interference.
Drone drifts during flight.	Not calibrated; uneven surface at take-off; wind.	Recalibrate the drone; ensure take-off from a flat surface; avoid flying in windy conditions.
Camera not recording/taking photos.	App not connected; insufficient storage (if applicable).	Ensure app is connected via Wi-Fi; check smartphone storage.
Short flight time.	Battery not fully charged; old battery.	Fully charge the battery; consider replacing old batteries.

Specifications

- **Material:** ABS
- **Frequency:** 2.4Ghz
- **Motor:** Brushed motor
- **Charging Time:** 1.5 hours
- **Flying Time:** 10 minutes
- **Remote Control Distance:** 50-80 meters
- **Front Camera Photo Resolution:** 4096*2160P
- **Front Camera Video Resolution:** 1920*1080p
- **Frame Rate:** 25fps
- **Image Transmission Distance:** 50-80 meters
- **Drone Battery:** 3.7V 600mAh (Included)
- **Remote Controller Battery:** 3* AAA battery (Not Included)
- **Drone Weight:** 60g
- **Drone Size (Unfoldable):** 16*17.5*4cm
- **Drone Size (Foldable):** 8*6*4cm
- **Connectivity Technology:** USB, Wi-Fi
- **Control Type:** Gesture control, RC
- **Recommended Age:** 14 years and up

Warranty and Support

If you encounter any problems with your GoolRC X1 RC Drone, please contact our store directly. We are committed to providing a satisfactory solution to any issues you may experience.

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