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Cheerwing U73

Cheerwing U73 Mini Drone Instruction Manual

Model: U73



1. INTRODUCTION

Welcome to the world of drone flying with your new Cheerwing U73 Mini Drone. This manual provides essential information for safe operation, setup, and maintenance of your drone. Please read it thoroughly before your first flight.

2. WHAT'S IN THE Box

Carefully unpack all items and ensure all components are present. If anything is missing or damaged, please contact customer support.

- Cheerwing U73 Mini Drone
- Remote Control Transmitter
- 2 x Rechargeable Lithium Polymer Batteries
- USB Charging Cable
- Spare Propellers (4 pieces)
- Propeller Guards (4 pieces)
- Screwdriver
- User Manual (this document)



Figure 2.1: All components included in the Cheerwing U73 Mini Drone package.

3. SETUP GUIDE

Follow these steps to prepare your Cheerwing U73 Mini Drone for its first flight.

3.1. Battery Installation and Charging

The drone comes with two rechargeable Lithium Polymer batteries. Ensure they are fully charged before use.

1. Insert the drone battery into the drone's battery compartment.
2. Connect the USB charging cable to the battery and a USB power source (e.g., computer, USB wall adapter). The indicator light on the charging cable will show charging status.
3. For the remote control, open the battery compartment and insert 3 AAA batteries (not included), observing polarity.

Your browser does not support the video tag.

Video 3.1: Demonstrates the unboxing, battery installation, and preparation of the Cheerwing U73 Mini Drone and its remote control.

3.2. Propeller Guard Installation

For added safety, especially for beginners, install the propeller guards.

1. Gently unfold the drone arms.
2. Align each propeller guard with the corresponding motor arm and snap it into place. Ensure it is securely attached.



Figure 3.2: Attaching the propeller guards to the drone.

4. OPERATING THE DRONE

Familiarize yourself with the controls and features for an optimal flying experience.

4.1. Remote Control Overview

The remote control allows for precise manipulation of the drone. Refer to the diagram below for button functions.



720P CAMERA



Figure 4.1: Remote Control Layout and Functions.

4.2. First Flight Procedures

1. Place the drone on a flat, level surface.
2. Turn on the drone, then turn on the remote control. The indicator lights will flash.
3. Pairing: Push the left joystick up then down to pair the drone with the remote. The lights will become solid when paired.
4. One Key Takeoff: Press the One Key Takeoff button to automatically launch the drone to a stable hovering height.
5. Altitude Hold: The drone will maintain its altitude automatically, making it easier to control.
6. Landing: Press the One Key Landing button to initiate an automatic landing.



EASY TO FLY

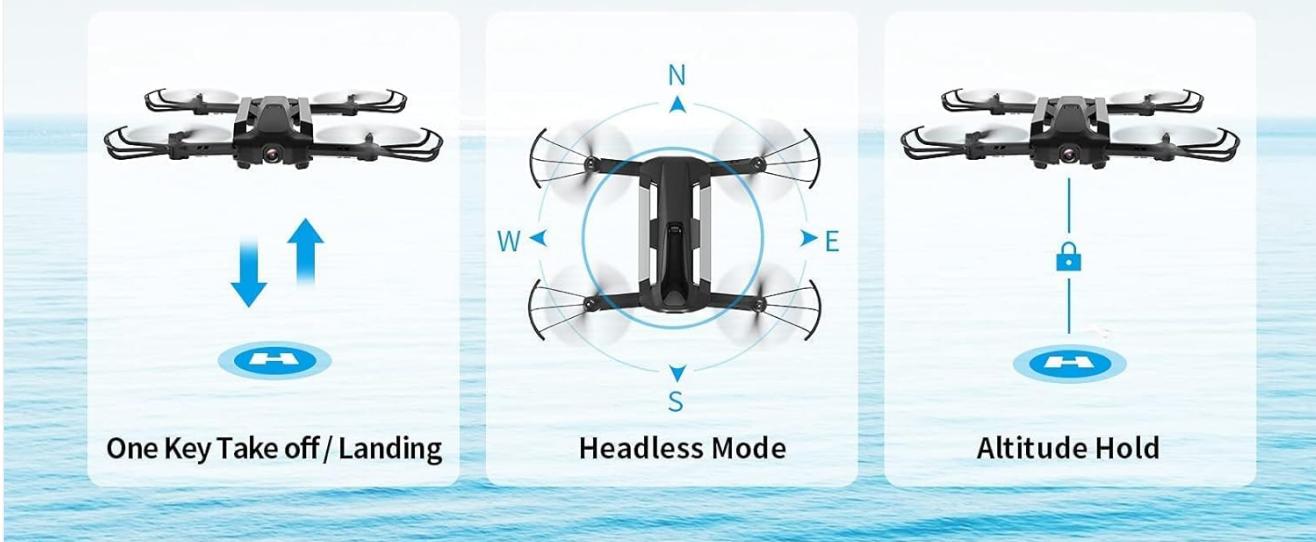


Figure 4.2: Easy-to-Fly Features: One Key Takeoff/Landing, Headless Mode, and Altitude Hold.

4.3. Advanced Features

- **WiFi FPV Transmission & APP Control:** Download the dedicated app to your smartphone. Mount your phone on the remote control to view real-time FPV (First Person View) footage from the drone's 720P HD camera. Control the drone directly from the app.
- **Voice Control:** Use simple voice commands like "Take off", "Landing", "Fly away" for hands-free control.
- **Gesture Shooting:** Make a "V" sign gesture to the camera, and the drone will automatically take photos within 3 seconds.
- **360° Flips:** Execute impressive aerial stunts with the 360° flip function.
- **2 Speed Modes:** Switch between high and low speed modes to suit your skill level and flying environment.
- **Trajectory Flight:** Draw a flight path on your smartphone screen, and the drone will follow the designated route.



VOICE CONTROL



Figure 4.3: 720P Camera and FPV Realtime Transmission.



APP CONTROL



Figure 4.4: Voice Control Functionality.



Figure 4.5: App Control for the Drone.

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Video 4.1: Demonstrates various flight features including one-key takeoff, altitude hold, turning, forward/backward flight, speed switch, FPV transmission, and custom route flight.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your drone.

- **Cleaning:** Use a soft, dry cloth to clean the drone body and camera lens. Avoid using harsh chemicals.
- **Propeller Inspection:** Regularly check propellers for any damage (cracks, bends). Replace damaged propellers immediately using the provided spare parts and screwdriver.
- **Battery Care:** Store batteries in a cool, dry place. Do not overcharge or over-discharge. If not used for extended periods, charge them to about 50% capacity.
- **Motor Protection:** The drone features motor stuck protection. If motors stop due to obstruction, clear the obstruction and restart the drone.

6. TROUBLESHOOTING

If you encounter issues with your Cheerwing U73 Mini Drone, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
Drone does not respond to remote.	Not paired, low battery, out of range.	Ensure drone and remote are powered on and paired. Charge batteries. Bring drone closer to remote.
Drone flies erratically or drifts.	Uncalibrated gyroscope, damaged propellers.	Perform gyroscope calibration (refer to quick start guide). Check and replace damaged propellers.
Short flight time.	Battery not fully charged, aging battery.	Ensure battery is fully charged. Consider replacing old batteries.
FPV feed is choppy or disconnected.	Weak Wi-Fi signal, interference.	Ensure strong Wi-Fi connection between phone and drone. Reduce environmental interference.
Drone falls immediately after takeoff.	Motors not properly engaged, low battery.	Ensure motors are unlocked before takeoff. Fully charge batteries.

Note: The drone has a Low Battery Power and Out of Range Alarm. When the drone is about to exceed the flight range or has low battery, the transmitter will sound an alarm to prompt you to return the drone immediately.

7. SPECIFICATIONS

Detailed technical specifications for the Cheerwing U73 Mini Drone.

Feature	Detail
Brand	Cheerwing
Model Name	U73
Dimensions	7.8 x 7.8 x 1.34 inches
Item Weight	1.19 pounds
Material	Plastic
Video Capture Resolution	720p
Connectivity Technology	Wi-Fi
Control Type	Voice Control, Remote Control, App Control
Battery Type	Lithium Polymer (3.7V, 500mAh)
Skill Level	Beginner
Recommended Age	14 years and up

8. WARRANTY AND SUPPORT

Cheerwing provides a standard warranty for the U73 Mini Drone against manufacturing defects. For warranty claims, technical support, or any inquiries, please contact Cheerwing customer service through the retailer's platform or the

official Cheerwing website.

Please retain your proof of purchase for warranty validation.

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