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› Cheerwing U38S Drone Instruction Manual

## Cheerwing U38S

# Cheerwing U38S Drone Instruction Manual

Model: U38S | Brand: Cheerwing

## INTRODUCTION

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This manual provides essential information for the safe and effective operation of your Cheerwing U38S Drone. Please read this manual thoroughly before operating the drone to ensure proper setup, flight, and maintenance. Retain this manual for future reference.



Image: The Cheerwing U38S drone, remote controller, batteries, and carrying case.

## WHAT'S IN THE BOX

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Verify that all components are present upon unboxing:

- Cheerwing U38S Drone
- Remote Control
- 2 x Intelligent Flight Batteries
- Carrying Case
- USB Charging Cable
- Spare Propellers
- Screwdriver
- User Manual (this document)



Image: Visual representation of the drone, remote, batteries, and accessories included in the package.

## SPECIFICATIONS

Feature	Detail
Model Name	U38S
Camera	4K UHD with 2-Axis Gimbal Stabilization & EIS Anti-Shake
Video Resolution	2048x1088P (4K@30fps)
Photo Resolution	4096x3072P
FPV Transmission	5Ghz
Flight Time	Up to 26 minutes per battery (52 minutes with 2 batteries)
Motors	Brushless Motors
Positioning System	GPS & GLONASS Dual-Mode, Optical Flow, Image Positioning
Control Distance	Up to 4900ft (approx. 1500m)
Item Weight	0.55 Kilograms (1.21 pounds)

## SETUP

### 1. Unfolding the Drone

Carefully unfold the drone arms until they lock into position. Ensure all arms are fully extended and stable before proceeding.

Your browser does not support the video tag.

Video: Demonstrates how to unfold the drone arms and prepare it for flight. This video also covers battery installation and initial power-on steps.

## 2. Battery Installation

Insert the intelligent flight battery into the designated compartment on the drone until it clicks securely into place. Ensure the battery is fully charged before first use.



Image: The drone with its two intelligent flight batteries, highlighting their design and capacity for extended flight time.

## 3. Remote Control Setup

Attach your smartphone to the remote control's phone holder. Ensure your phone is securely mounted.



Image: The remote control with a smartphone securely attached, ready for FPV viewing and advanced controls.

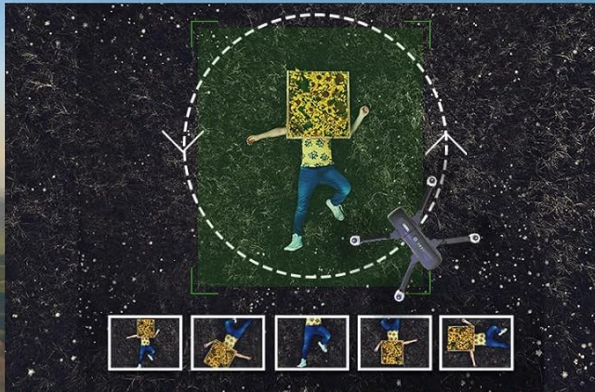
#### **4. Power On Sequence**

First, power on the remote control. Then, press and hold the power button on the drone until the indicator lights illuminate. Wait for the drone and remote to pair automatically.

#### **5. Connecting to the App**

Download the official Cheering drone application from your smartphone's app store. Connect your phone to the drone's Wi-Fi network (5Ghz FPV transmission). Open the app to view the live feed and access intelligent flight features.

# GPS ASSISTED FEATURES



▶ SURROUND FLIGHT



▶ WAYPOINT FLIGHT



FOLLOW ME

Image: A user holding the remote control with a smartphone displaying the 5G FPV transmission, showing the drone's maximum range.

## 6. Calibration

Perform compass and gyroscope calibration before each flight, especially when flying in a new location. Follow the on-screen instructions in the app for precise calibration. This ensures stable flight and accurate GPS positioning.

## OPERATING THE DRONE

### 1. Take-off and Landing

The U38S drone features One Key Take-off and Landing for ease of use. Press the designated button on the remote control or in the app to initiate automatic take-off or landing. For manual control, gently push the throttle stick upwards to take off and downwards to land.



Image: The drone performing an automatic take-off from a marked landing area, illustrating the one-key function.

## 2. Flight Modes and Controls

The drone offers multiple speed modes to suit different skill levels. Utilize the remote control sticks for directional movement (forward, backward, left, right) and altitude control (up, down). The Altitude Hold function maintains a stable height for easier control.



## EASY AND STABLE

- ▶ GPS POSITIONING
- ▶ ONE KEY TO START
- ▶ FAILSAFE
- ▶ ALTITUDE HOLD
- ▶ 3 SPEED MODE



Image: The drone in stable flight, demonstrating its GPS positioning and altitude hold capabilities for easy and stable operation.

### 3. Intelligent Flight Features

- **GPS Follow Me:** The drone will automatically follow your movement, capturing footage as you go.
- **Waypoint Flight:** Plan a custom flight path by tapping desired points on the map in the app. The drone will fly along the specified route.
- **Point of Interest:** Select a central point, and the drone will circle around it at a set radius and altitude, capturing panoramic views.
- **Trajectory Flight:** Draw a path on your phone screen, and the drone will fly autonomously along that path.

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Video: An overview of the Cheerwing U38S 4K GPS Drone's features, including intelligent flight modes and camera capabilities.

### 4. Camera Operation

The 4K UHD camera with 2-axis gimbal stabilization and EIS technology provides clear and stable video and high-quality pictures. Use the dedicated buttons on the remote or controls within the app to capture photos and record videos.

# 4K 4K CAMERA WITH GIMBAL + EIS

▶ 2-AXIS GIMBAL | ELECTRIC IMAGE STABILIZATION



Image: A detailed view of the drone's 4K camera system, highlighting the 2-axis gimbal and Electronic Image Stabilization (EIS) for smooth footage.



Image: A side-by-side comparison demonstrating the effectiveness of the 2-axis gimbal and EIS in reducing blur and shake in captured video.

## MAINTENANCE

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### 1. Battery Care

Always use the provided charging cable and adapter. Do not overcharge or completely drain the batteries. Store batteries in a cool, dry place away from direct sunlight. If not used for extended periods, charge them to about 50% capacity every three months.

### 2. Propeller Inspection

Regularly inspect the propellers for any signs of damage, cracks, or bends. Replace damaged propellers immediately using the provided spare parts and screwdriver. Ensure propellers are securely attached before each flight.

### 3. Cleaning

After each flight, gently wipe down the drone's body and camera lens with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials that could damage the drone's surface or components.

## TROUBLESHOOTING

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Problem	Possible Cause	Solution
Drone does not power on	Battery not installed correctly or discharged.	Ensure battery is fully charged and properly inserted.
No FPV live feed	Phone not connected to drone's Wi-Fi or app issue.	Verify Wi-Fi connection; restart app and drone.
Unstable flight/Drifting	Improper calibration or strong winds.	Perform compass and gyroscope calibration. Avoid flying in strong winds.
Drone loses signal	Out of range or interference.	Fly within specified control distance. Avoid areas with high electromagnetic interference. The drone has an "Out of Range Alarm" and "Return Without Signal" feature.
Short flight time	Battery not fully charged or aging.	Ensure batteries are fully charged. Consider replacing old batteries.



Image: The drone demonstrating its safety features, such as an out-of-range alarm and automatic return to home when signal is lost or battery is low.

## SAFETY GUIDELINES

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- Always fly in open areas, away from people, buildings, and obstacles.
- Do not fly in strong winds, rain, or other adverse weather conditions.
- Maintain visual line of sight with the drone at all times.
- Understand and comply with local drone regulations and airspace restrictions.
- Ensure the drone's battery and remote control are fully charged before each flight.
- Do not operate the drone under the influence of alcohol or drugs.
- Keep fingers and loose clothing away from rotating propellers.
- The drone weighs 1.21 pounds (0.55 kg), which is over 250 grams. Users in the US should register it with the FAA for recreational use.

## WARRANTY AND SUPPORT

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Cheerwing is committed to providing high-quality products and outstanding after-sales service. If you encounter any problems with your drone, please do not hesitate to contact Cheerwing customer service. Operation videos and additional support resources are available through the official Cheerwing app.

For further assistance, please visit the [Cheerwing Store on Amazon](#).