ULANZI DR-01

ULANZI DR-01 Anti-Collision RGB LED Light Instruction Manual

Model: DR-01

1. INTRODUCTION

The ULANZI DR-01 is an anti-collision RGB LED light designed for various drones, including DJI Mavic series (MINI, 2 Pro, Zoom, Air, Pro, Platinum, Spark). This compact and lightweight accessory enhances drone visibility, especially during low-light conditions and night flights, ensuring compliance with FAA guidelines for anti-collision lighting. It features three distinct colors (white, red, green) and three light modes (continuous, fast strobe, slow strobe), offering versatility for different operational requirements. The light is equipped with an extended battery life and a secure 3M Dual Lock mounting system for easy attachment to any drone.

Image 1.1: ULANZI DR-01 Anti-Collision RGB LED Light. This image displays the compact design of the light unit alongside three drones, each equipped with the light displaying a different color (red, green, white).

2. SAFETY INFORMATION

- Always ensure the light is securely attached to your drone before flight to prevent detachment during operation.
- Verify that the light does not obstruct any critical sensors, cameras, or ventilation ports on your drone.
- Adhere to all local aviation regulations and guidelines regarding drone operation, especially concerning night flights and required lighting. The ULANZI DR-01 is designed to meet FAA anti-collision lighting guidelines.
- Avoid direct eye exposure to the light, as its brightness may cause temporary discomfort.
- Do not attempt to disassemble or modify the light, as this may void the warranty and pose a safety risk.

3. PACKAGE CONTENTS

- ULANZI DR-01 Anti-Collision RGB LED Light Unit
- USB-C Charging Cable
- 3M Dual Lock Mounting Pads (includes 1 extra for switching between drones)

Image 3.1: ULANZI DR-01 package contents and detailed views. This image shows the light unit, USB-C charging cable, and two 3M Dual Lock pads. Insets provide close-up views of the light's internal components, power button, and USB-C port.

4. SPECIFICATIONS

Feature	Description
Brand	ULANZI
Model Name	DR-01
Special Feature	Anti-Collision Lighting
Colors	White, Red, Green
Light Modes	Continuous Light, Fast Strobe, Slow Strobe
Battery Type	Lithium Ion
Battery Life	2.5+ hours (at strobe speed)
Charging Port	USB-C
Mounting	3M Dual Lock Technology
Weight	14g (0.49 oz)
Visibility	Visible for 3+ statute miles on a clear night

5. SETUP

5.1 Charging the Light

1. Locate the USB-C charging port on the side of the ULANZI DR-01 light unit.
2. Connect the provided USB-C cable to the light and plug the other end into a compatible USB power source (e.g.,

computer, wall adapter).

3. The light will indicate charging status (e.g., a red indicator light). Once fully charged, the indicator will change (e.g., turn off or change color).

5.2 Mounting the Light to Your Drone

1. Identify a flat, clean surface on your drone where the light can be securely attached without obstructing sensors or propellers. The top or bottom center of the drone is often ideal.

2. Peel the backing from one side of a 3M Dual Lock mounting pad and firmly press it onto the chosen surface of your drone. Ensure the surface is clean and dry for optimal adhesion.

3. Peel the backing from the other side of the 3M Dual Lock pad and attach it to the bottom of the ULANZI DR-01 light unit.

4. Align the light unit with the pad on your drone and press firmly to secure it. The 3M Dual Lock provides a strong, reusable attachment.

Image 5.1: ULANZI DR-01 mounting process. This image illustrates how the 3M Dual Lock pads are used to attach the light unit to a drone, showing the light's underside with the mounting pad and a drone with the corresponding pad.

6. OPERATING INSTRUCTIONS

6.1 Power On/Off

- To power on the ULANZI DR-01, press and hold the power button (located on the side of the unit) for approximately 1-2 seconds until the light illuminates.
- To power off, press and hold the power button again for 1-2 seconds until the light turns off.

6.2 Changing Light Colors and Modes

- Once powered on, short press the power button to cycle through the available light colors and modes.
- The light offers three colors: White, Red, and Green.
- Each color has three modes: Continuous Light, Fast Strobe, and Slow Strobe.
- Continue short pressing the button until you reach your desired color and mode.

Your browser does not support the video tag.

Video 6.1: ULANZI DR-01 Anti-Collision Lighting RGB LED Light demonstration. This video showcases the light's various color and blinking modes, demonstrating its functionality for drone visibility.

Image 6.2: ULANZI DR-01 in Red Light Mode. The light is shown mounted on a drone, emitting a bright red light, suitable for anti-collision purposes.

Visible for 3 statute miles on a clear night

We use unique lucency Anti collision plastic lid cover the lights, and it is visible from 360°, up to 3 + miles.
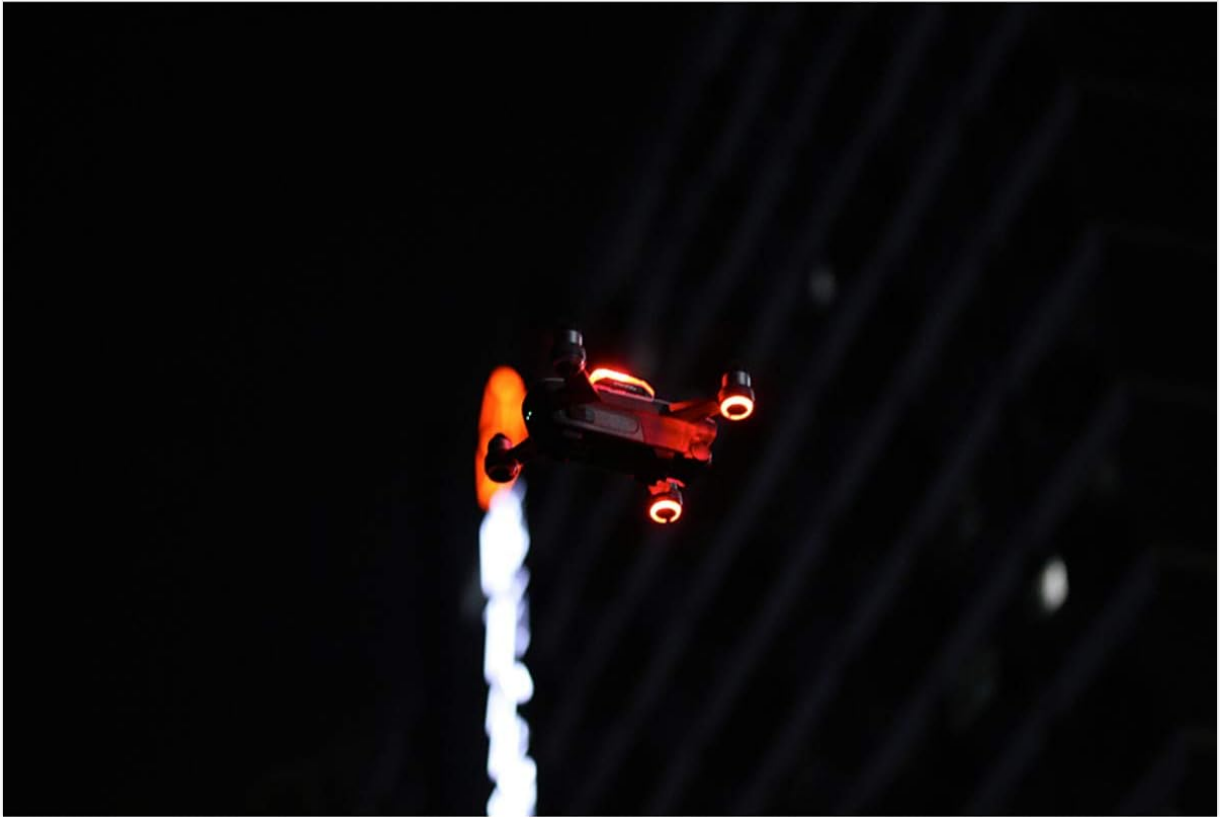

Image 6.3: ULANZI DR-01 in Green Light Mode. The light is shown mounted on a drone, emitting a bright green light, enhancing visibility during flight.

Image 6.4: ULANZI DR-01 in White Light Mode. The light is shown mounted on a drone, emitting a bright white light, providing clear visibility.

6.3 Battery Life Indication

The ULANZI DR-01 provides over 2.5 hours of operation in strobe mode on a single charge. Monitor the light's performance to determine when recharging is necessary.

Show details

Image 6.5: ULANZI DR-01 highlighting extended battery life. This image shows the light unit with a '20 Hours' graphic, indicating its long operational duration in certain modes.

7. MAINTENANCE

- Keep the light unit clean by wiping it with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials.
- Ensure the USB-C port is free from dust and debris to maintain proper charging functionality.
- When not in use, store the light in a cool, dry place away from direct sunlight and extreme temperatures.
- Regularly check the 3M Dual Lock pads for wear and tear. Replace them if they lose their adhesive strength to

ensure secure mounting.

8. Troubleshooting

- **Light not turning on:** Ensure the battery is charged. Connect the light to a USB power source using the provided cable.
- **Light not changing modes/colors:** Press the power button firmly and briefly to cycle through modes. If unresponsive, try fully charging the device.
- **Light detaching from drone:** Ensure the drone's surface and the 3M Dual Lock pads are clean and dry before attachment. Replace worn 3M Dual Lock pads if necessary.
- **Reduced visibility:** Ensure the light's lens is clean and free from obstructions. Check that the chosen light mode and color are appropriate for the environmental conditions.

9. Warranty and Support

For warranty information, technical support, or service inquiries regarding your ULANZI DR-01 Anti-Collision RGB LED Light, please refer to the official ULANZI website or contact their customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.