

Chasing M2 S

Chasing M2 S Professional Underwater Drone

USER MANUAL

1. Introduction

This user manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Chasing M2 S Professional Underwater Drone. Please read this manual thoroughly before using the product to ensure optimal performance and longevity.

2. Safety Information

Operating the Chasing M2 S requires adherence to specific safety guidelines to prevent injury or damage to the device. Always prioritize safety during use.

- **Water Depth:** Do not exceed the maximum operating depth of 100 meters (328 feet).
- **Battery Safety:** Use only the provided charger and cables. Do not expose batteries to extreme temperatures or puncture them.
- **Propeller Safety:** Keep hands, hair, and loose clothing clear of propellers when the drone is powered on.
- **Environmental Awareness:** Avoid operating in strong currents, near marine life, or in areas with potential entanglement hazards.
- **Supervision:** Always operate the drone under direct supervision.

3. Package Contents

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

- (1) M2 S ROV Underwater Drone
- (1) M2 S Remote Control
- (1) 100m Tether
- (1) Winder
- (1) Power Cord & 3-in-1 Charger
- (1) Adapter Case (US)
- (1) EPP Case
- (1) M2 S Charging Adapter Cable
- (1) Towel

- (1) GoPro Mount
- (1) ROV Maintenance Manual (General Edition)
- (1) RC3 Controller User Manual (General Edition)
- (1) Warranty Card

4. Product Overview

The Chasing M2 S is an advanced underwater ROV designed for professional use, featuring an open-body design and 8 vectored thrusters for superior maneuverability.



Figure 4.1: The Chasing M2 S Underwater Drone, its remote control, and the 100-meter tether with winder.

4.1. M2 S ROV Underwater Drone

The main unit, equipped with a camera, lights, and multiple thrusters for precise underwater movement.



Figure 4.2: Front view of the Chasing M2 S Underwater Drone, showcasing its camera lens and integrated LED lights.



Figure 4.3: Rear view of the Chasing M2 S Underwater Drone, highlighting the tether connection port and rear thrusters.



Figure 4.4: Top-down view of the Chasing M2 S Underwater Drone, showing the overall chassis and thruster placement.

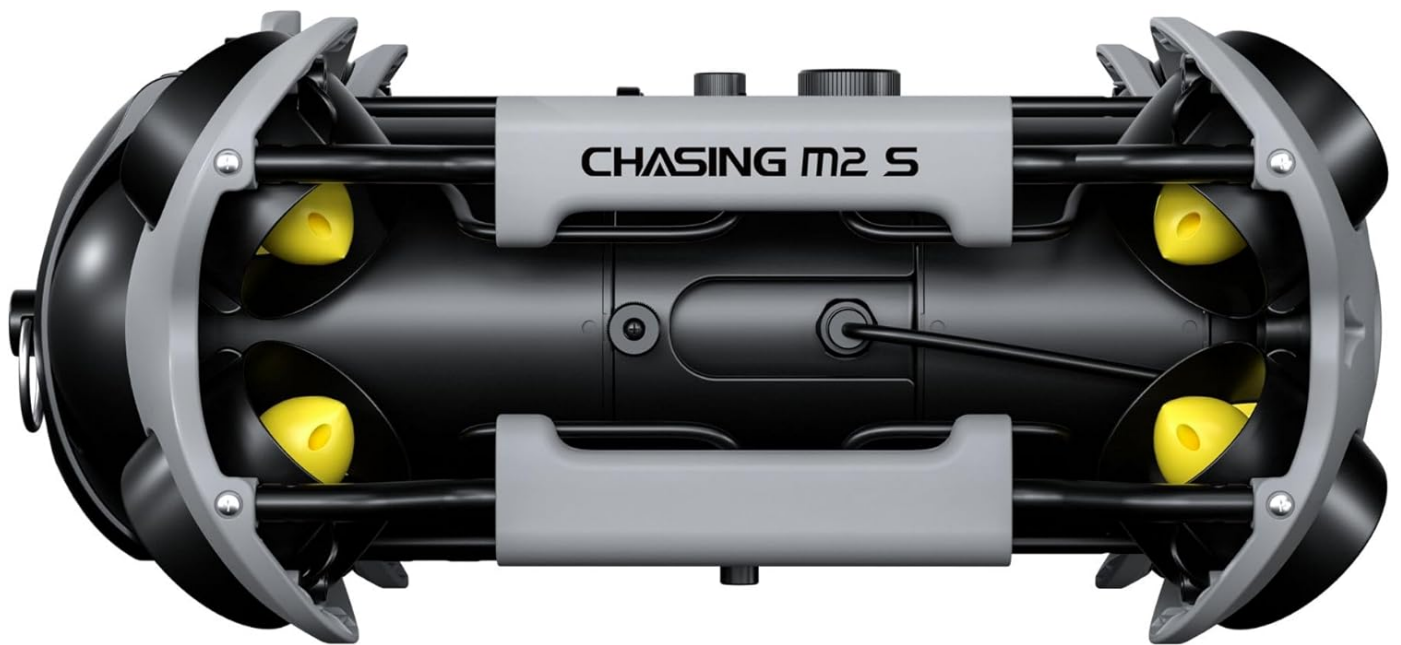


Figure 4.5: Bottom view of the Chasing M2 S Underwater Drone, revealing the underside components and additional thrusters.



Figure 4.6: Side view of the Chasing M2 S Underwater Drone, illustrating its compact and streamlined design.

4.2. M2 S Remote Control

The primary interface for controlling the drone, featuring joysticks, buttons, and a mount for a smartphone or tablet.



Figure 4.7: The Chasing M2 S Remote Control, designed for ergonomic handling and precise drone operation, shown with a mounted smartphone.

4.3. 100m Tether & Winder

The tether provides communication and power to the ROV from the surface, managed by a convenient winder for deployment and retrieval.

5. Setup

Follow these steps to prepare your Chasing M2 S for operation:

1. **Charge Batteries:** Connect the ROV and Remote Control to the 3-in-1 charger using the provided cables. Ensure both devices are fully charged before use. The indicator lights will show charging status.

2. **Connect Tether:** Securely connect one end of the 100m tether to the ROV and the other end to the winder. Ensure the connection points are clean and dry before mating.
3. **Install App:** Download the official Chasing GO app from your device's app store (iOS/Android).
4. **Connect to Remote Control:** Place your smartphone or tablet into the remote control holder. Power on the remote control, then power on the ROV. Open the Chasing GO app and follow the on-screen instructions to establish a connection.

6. Operating

Once setup is complete, you can begin operating your Chasing M2 S. Familiarize yourself with the controls before deployment.

6.1. Basic Controls

- **Movement:** Use the left joystick on the remote control to control forward, backward, left, and right movement.
- **Depth & Rotation:** Use the right joystick to control ascent, descent, and yaw (rotation).
- **Lights:** Press the dedicated light button on the remote control to adjust LED brightness.

6.2. Camera Functions

- **Photo:** Press the photo button on the remote control or within the app to capture still images.
- **Video:** Press the video button to start/stop video recording.
- **Live View:** The Chasing GO app provides a real-time video feed from the drone's camera.

6.3. Deployment and Retrieval

Carefully lower the ROV into the water. Ensure the tether is free of tangles. When retrieving, pull the ROV slowly and steadily, winding the tether as you go.

7. Maintenance

Regular maintenance ensures the longevity and optimal performance of your Chasing M2 S.

- **Cleaning:** After each use, rinse the ROV, remote control, and tether with fresh water. Dry thoroughly with the provided towel or a soft cloth.
- **Battery Care:** Store batteries in a cool, dry place. For long-term storage, charge batteries to approximately 50-60%.
- **Propeller Inspection:** Regularly check propellers for any debris, damage, or entanglement. Clean or replace as necessary.
- **O-Rings and Seals:** Inspect all O-rings and seals for cracks or wear. Keep them clean and lightly lubricated with silicone grease if needed.
- **Storage:** Store the drone and accessories in the EPP case in a dry, temperature-controlled environment.

8. Troubleshooting

Refer to this section for common issues and their solutions.

Problem	Possible Cause	Solution
Drone does not power on.	Low battery; Loose connection.	Charge the ROV battery; Ensure all connections are secure.

Problem	Possible Cause	Solution
No video feed in app.	App not connected; Tether issue.	Restart app and remote control; Check tether connections.
Drone not responding to controls.	Remote control battery low; Interference; Tether damage.	Charge remote control; Move to an area with less interference; Inspect tether for damage.
Propellers not spinning correctly.	Debris in thrusters; Motor malfunction.	Clean thrusters of any debris; Contact support if issue persists.





9. Specifications

Feature	Detail
Brand	Chasing
Model Name	M2 S
Age Range (Description)	Adult
Control Type	Remote Control
Media Type	SD
Batteries Included	Yes
Remote Control Included?	Yes
UPC	843722101927
Item Weight	33 pounds
Package Dimensions	19.7 x 18.2 x 12.6 inches
ASIN	B0CYK617VT
Date First Available	March 19, 2024

10. Warranty and Support

Your Chasing M2 S Professional Underwater Drone comes with a Warranty Card included in the package. Please refer to this card for detailed warranty terms and conditions.

For technical support, service, or additional inquiries, please visit the official Chasing website or contact their customer service department. You can find more information and resources at the [Chasing Store on Amazon](#).

<div><div>User Manual...</div><div>DISCLAIMER</div><div><p>Thank you for purchasing the CHASING M2 underwater drone. Please read the disclaimer carefully before using the drone. CHASING Robotics is not responsible for any damage or loss caused by the use of the drone. Please read the disclaimer carefully before using the drone. CHASING Robotics is not responsible for any damage or loss caused by the use of the drone.</p><p>CHASING Robotics is not responsible for any damage or loss caused by the use of the drone. Please read the disclaimer carefully before using the drone. CHASING Robotics is not responsible for any damage or loss caused by the use of the drone.</p></div></div>	<div>CHASING M2 Underwater Drone User Manual</div> <div>Comprehensive user manual for the CHASING M2 underwater drone, covering setup, operation, specifications, maintenance, and safety precautions.</div>																																	
<div><div>CHASING F1 PROTOTYPE INSTRUCTIONS</div><div><div>1. Packaging list</div><table><tr><th>Item</th><th>Qty</th><th>Unit</th></tr><tr><td>Chasing F1</td><td>1</td><td>Unit</td></tr><tr><td>Chasing F1 Remote</td><td>1</td><td>Unit</td></tr><tr><td>Chasing F1 Battery</td><td>1</td><td>Unit</td></tr><tr><td>Chasing F1 Propeller</td><td>1</td><td>Unit</td></tr><tr><td>Chasing F1 Motor</td><td>1</td><td>Unit</td></tr><tr><td>Chasing F1 Camera</td><td>1</td><td>Unit</td></tr><tr><td>Chasing F1 Receiver</td><td>1</td><td>Unit</td></tr><tr><td>Chasing F1 Antenna</td><td>1</td><td>Unit</td></tr><tr><td>Chasing F1 Cable</td><td>1</td><td>Unit</td></tr><tr><td>Chasing F1 Case</td><td>1</td><td>Unit</td></tr></table></div><div><div>2. Use method and precautions</div><div><div>2.1 Use method</div><div><p>1. Turn on the power switch.</p><p>2. Connect the battery to the drone.</p><p>3. Turn on the drone.</p><p>4. Connect the remote to the drone.</p><p>5. Turn on the remote.</p><p>6. Turn on the antenna.</p><p>7. Turn on the cable.</p><p>8. Turn on the case.</p></div></div></div></div>	Item	Qty	Unit	Chasing F1	1	Unit	Chasing F1 Remote	1	Unit	Chasing F1 Battery	1	Unit	Chasing F1 Propeller	1	Unit	Chasing F1 Motor	1	Unit	Chasing F1 Camera	1	Unit	Chasing F1 Receiver	1	Unit	Chasing F1 Antenna	1	Unit	Chasing F1 Cable	1	Unit	Chasing F1 Case	1	Unit	<div>Chasing F1 Prototype Instructions: User Manual and Operation Guide</div> <div>Comprehensive user manual for the Chasing F1 prototype, detailing packing list, setup, operation, app usage, machine control, and technical specifications. Learn how to use your Chasing F1 fishfinder drone effectively.</div>
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<div><div>CHASING GLADIUS MINI S</div><div></div></div>	<div>Chasing Gladius Mini S Quick Start Guide</div> <div>A quick start guide for the Chasing Gladius Mini S underwater ROV, covering main components, installation, connection, app usage, and maintenance.</div>																																	
<div><div>CHASING M2</div><div></div></div>	<div>CHASING M2 Underwater ROV User Manual</div> <div>Comprehensive user manual for the CHASING M2 underwater ROV, detailing its features, operation, installation, specifications, and maintenance for professional and industrial applications.</div>																																	
<div><div>CHASING DORY</div><div>Everyday Underwater Exploration</div><div></div><div>User Manual</div><div>V2.0</div></div>	<div>Chasing Dory Underwater Drone User Manual: Exploration, Operation, and Specifications</div> <div>Comprehensive user manual for the Chasing Dory underwater drone, covering installation, operation, navigation, specifications, and safety precautions for everyday underwater exploration.</div>																																	
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