Congratulations on your purchase of the Chasing Innovation Gladius underwater drone. Please read this entire document carefully before using the drone. By using this product, you hereby signify that you have read this disclaimer and all instruction beyond carefully and that you understand and agree to abide by the terms and conditions herein.

GLADIUS MINI is a five thrusters miniature portable underwater drone for underwater shooting, exploration and real-time observation. Chasing Innovation accepts no Liability for damage, injury or any legal responsibility incurred directly or in direct use of Gladius in following conditions:

01. Damage(s) or injuries Incurred when users are drunk, taking drugs, drug anesthesia, dizziness, fatigue, nausea and any other conditions no matter physically or mentally that could impair your ability.

02. Damage(s) or injuries caused by subjective Intentional operations

03. Any mental or compensation caused by accident.

04. Failure to follow the guidance of the manual to assemble or operate.

05. Malfunctions caused by refill or replacement with non-Chasing Innovation accessories and parts, or unauthorized modification, disassembly or shell opening not in accordance with official instructions.

06. Damage(s) or injuries caused by using third party products or fake Chasing Innovation products

07. Damage(s) or injuries caused by misoperation or subjective misjudgment

08. Damage(s) or injuries caused by mechanical failure due to erosion, aging

09. Damage or injury caused by operating the unit with a low battery alert, the drone is not of maximum safe range and depth

10. Damage(s) or injuries caused by knowingly operating the product in abnormal conditions (such as the assembly is not completed, or the main components have obvious defects, obvious defect or missing accessories) have obvious faults, obvious defect or missing accessories.

11. Damage or injury caused by operating the drone in the sensitive zone, such as the military area or public waters without official permission

12. Damage or injury caused by using in bad water condition (such as high winds, or turbid zone).

13. Damage or injury caused by uncontrollable external factors, including severe collision, tidal wave, swallowed by animal.

14. Damage(s) or injuries caused by infringement such as any data, photo or video material recorded by the use of Gladius

15. Other issues that are not covered by the scope of Chasing Innovation’s Liability.

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**ROV**

GLADIUS MINI is a five thrusters miniature portable underwater drone for underwater shooting, exploration and real-time observation. Its fuselage imitates the submarine and unique design of five thrusters structure let the GLADIUS MINI more stable and faster, the speed can up to 2m/s. At the same time, it has depth lock mode/off-bottoming mode, supports vertical up and down / ±45° adjustable tilt-lock mode, it can steak into the water 180 meters for 4K ultra high-definition shooting and stable observation.

The drone is easy operation, small and can be carried in single shoulder pack, the battery life is 2h, whether diving, sea fishing, underwater photography or yachting, the GLADIUS MINI is your best choice.

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**Base Station**

The function of the base station is to provide WiFi signal so that the mobile phone can connect with ROV through WiFi, make it possible to control the ROV in real-time and display the shooting picture. It has HDMI output function, compact and easy to carry.

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**Indicator Lights Introduction**

- **Battery Level**: Base station battery indicator with three color states: (Red: less than 25% Yellow: 25-75% Green: 75-100%)  
- **2.4G / 5G WiFi indicator**: always on when working.  
- **PGO**: 5G WiFi indicator, always on when working.  
- **ROV**: Indicates the communication between the base station and the ROV. Steady light indicates successful connection, and if it is blinking, it means not connected.
Winder & Tether
The winder is used to store the tether. The tether is used to connect the RDV and base station.

Remote Controller
It is used to control the navigation of the RDV and communicate with the mobile phone via Bluetooth. It also supports 5”-10.5” mobile phones or tablets.

Remote Controller Bracket
Mobile Phone/Tablet Clip: Support fixed equipment size from 5 inches to 10.5 inches.
Adjustable Nut A: Used to fix bracket.
Adjustable Nut B: Used to fix brace.
Adjustable Nut C: Used to fix the entire bracket and easy to quick assembly and disassembly.
Built-in Tassel: Used to adjust the adjustable nut D and is stored in the bracket. It can be removed from the bracket stem by the hanging points on both sides.

Note: When the controller is charging, the Bluetooth module will continue to flash, and the battery indicator will show the current battery level.
Do not put the controller in the water to avoid damaging the device.

Power Indicator: On: LED lights for 25% of the battery.
Unlock/Lock: Unlock/Lock the motor.

Safety Buckle: A safety harness can be attached to prevent the controller from falling.

1. Tether Connectors
2. Tether
3. Winder
4. Note: Do not put the tether connectors that are unconnected into the water to avoid damage.

5. Power Switch: Turn on/off the controller.
6. Mode Switch: Press to switch the depth lock/unlock/holding mode.
7. Bluetooth State: Flashing means no connection, steady light means connected, and it will also flash when charging.
8. Power Indicator: On: LED stands for 25% of the battery.
10. Safety Buckle: A safety harness can be attached to prevent the controller from falling.

11. Joystick: Used to control the navigation of the RDV. For the specific operation, refer to Navigation Posture.
12. Mode Switch Video/Photo: Switch the photo/video mode.
13. Video/Photo: Press to start taking photos/recording video.
14. Light Control: Scroll to left for decreasing brightness; to right for increasing brightness.
15. Angle Adjustment: $c$ left for lowering the head; to right for lifting the head, press to back a horizontal position.
Mounting Controller Bracket

1. Insert the bracket into the mounting slot on the back of the controller.
2. Snap the bracket onto the mobile phone/tablet clip and screw the nut.
3. Fixed with M5*8 screw.
4. Remove the nut on the back of the mobile phone/tablet clip.
5. Put in your phone/tablet, it supports turn the phone/tablet from multiple angles.

Installation & Connection

1. Download iF.Dive App

   - iF.Dive App: For iOS 8.0 and above. For Android, the below QR code is to be downloaded or visit the iF.Dive App Store / Google Play to download.
   - Scan the QR code shown on the next page.

   Watch the instructional video: https://www.chasinginnovation.com/gladius/videos

2. Connect ROV with Base Station

   - Insert the two connectors of the ROV into the ROV and base station, then tighten the nut.

3. Boot

   - Turn on the power switch on the back of the base station for one second. After the boot, the base station power indicator light up, if it is 0.2-0.6 and iROV LED are always (glowing), it means iROV show a short time up and accompanied by the two sealevel sounds.

4. Wi-Fi Connection

   - Enter the phone Wi-Fi interface, wait for Wi-Fi network Gladius_1G_xxxx well appear, click to connect. Wi-Fi password: 12345678

   - Note: Press the "reset" button of the base station to switch to Gladius_1G_xxxx.
Installation & Connection

1. Turn on Bluetooth
   - When Bluetooth is turned on, you can go straight to the next step without having to manually pair the controller.

2. Open Controller
   - Switch to the left (left) side, the Bluetooth indicator flashes, and the battery indicator lights.

3. Connecting Controller and Mobile Phone
   - First, open the app, and then second, press the button to establish a connection with the controller. The Bluetooth indicator on the controller is always on. To ensure the controller is connected successfully, do the following:
     - Open the app, click the ‘Start’ button, the controller connection interface will pop up, click ‘Connect Controller’, enter the password. When the controller is connected, the Bluetooth indicator on the controller is always on.

4. Installing Battery Module
   - If you need to go to the password, please replace the assembled fresh water module with assembled module 4.

5. Dive APP Usage
   - When you use the app for the first time, you will see the help page to get started quickly and conveniently. It is strongly recommended that you register the app and you will see the page taken by floodlight. Click on the register button on the upper right and enter the battery module password to see the corresponding motor rotation by sliding the joystick on the controller.

6. Connect WiFi
   - Connect WiFi and base station, then power on the base station. 1) Find ‘Gladius_6_4g’ or ‘Gladius_7_4g’ from the WiFi list. 2) Input the password: 23456789.

Video and Photo Download

1. Download (Computer)
   - 1) Open the web browser and enter IP address: 192.168.1.18. 2) Click the video or photo that you need to download. 3) Click the download icon and save, which is generally saved in the download folder. 4) If you need a smooth download of videos and videos, it is recommended you use Adobe Player or other player.
The underwater drone has 8 states totally, going up, dive, left turn, right turn, forward, backward, lowering the head, and lifting the head. The relationship between the navigation posture and the controller is as follows:

**ROV**

The adapter light on the body indicates normal charging and the green light indicates that charging is completed. After charging, please unplug the adapter before using the drone.

**Base Station**

The adapter light on the body indicates normal charging and the green light indicates that charging is completed. After charging, please unplug the adapter before using the drone.

**Remote Controller**

Plug in the USB charging cable and connect the charger to the drone. When the battery is fully charged, the status battery indicator is all green.

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**Specifications**

**Dimmable LED Lights**

- **Brightness**
  - 2×200: M
- **Color Temperature**
  - 3000K-5000K
- **CRI**
  - ≥80
- **Maximum Power**
  - 2×2W
- **Dimming**
  - Manually adjustable

**Winder & Tether**

- **Weight**
  - 1.2kg(35m)/1.8kg(100m)
- **Tether**
  - 50m/100m
**Specifications**

**ROV**
- **Size**: 385x226x131mm
- **Battery Capacity**: 5.5 kWh (1800mAh)
- **Weight**: <2.5kg
- **Bandwidth**: >6kg (24GHz)
- **Operating Temperature**: -20°C to 60°C
- **Maximum Depth**: 100m
- **Maximum Speed**: 40kn (21m/s)
- **Maximum Range**: 7Km (2.5kHz)
- **Battery Life**: 24 hours
- **Battery Cycle**: >180 cycles

**Camera**
- **CMOS**: 1/2.3 Inches
- **Aperture**: F/3.5
- **Focal Length**: 4mm
- **FOV**: 180° × 120°
- **Field of View**: 87°
- **Maximum Resolution/Videorate**: 1280×1024/30fps
- **Picture Type**: JPEG/RAW
- **Video Resolution**: 1080p (1920×1080)
- **Video Type**: H.265
- **Video Type**: Mpeg4
- **SD Card Memory**: 8G

**Remote Controller**
- **Working Frequency**: 2.4GHz/2.48GHz
- **Remote Distance**: 10km (max)
- **Screen Size**: <2m
- **Charging Time**: <1h
- **Battery Life**: 5h

**Adapter**
- **Adapter Voltage**: 110V/220V
- **DC Charging Time**: 2h
- **Base Station Hanging Time**: 1h

(Notes: ROV and base station are used the same adapter.)

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**Maintenance and Precautions**

**Navigation Safety**
- Use the official software adapter.
- Red light means managing danger.
- Green light means the ROV is managed safely.

**Battery Protection**
- Prevent the battery from being exposed to direct sunlight.
- Keep the water body in less than 20%.%

**Charging Protection**
- Use the official adapter.
- Red light means charging.
- Green light means charging is completed.
- When the power is less than 20%, please turn off the adapter.

**Thrust/Propeller**
- After use, clean the thrusters and propellers thoroughly. Make sure the water body is completely clean, rinse with fresh water and dry it with a dry cloth.

**Tether**
- Before use, check if there is water on the contact of the ROV. If yes, wipe it with a special absorbent towel provided by the manufacturer.

**Other**
- Do not turn on the LED lights of the ROV before entering the water to avoid burning.
- The default screw should be replaced immediately in case of damage.
- After each use, rinse the ROV with fresh water and make it dry.
- The base station should not be exposed to water and should be wiped with a cloth.
- Do not place heavy objects on the ROV to avoid possible damage.
- Persons under the age of 35 need to use the ROV accompanied by an adult.
- When not in use, do not expose the machine to sunlight. Store it in a shade place or in a special box.
- Chlorides or other chemicals can void the warranty. Be sure to clean thoroughly.

**Support**
- If you have any questions, please send an email to support@ubot-tech.com or contact your customer service center.
- You can also search on Facebook: Gladius Mini Group. Join the official Gladius group to get more official news and app update notifications, or share your wonderful photos with other users.