# Geneinno T1

USER MANUAL  V1.1.0

2019.06

**GENEINNO**

# CONTENT

# I. User tips

**Safety Instructions：**

1. Please use in the open water with clear water quality. Try to avoid using in the environment with too many aquatic plants, too cloudy or very complex underwater structures.

2. Ensure that there are no high-power radio devices or large metal objects around the wireless relay. Open/install the antenna correctly to avoid affecting the normal reception of wireless signals.

3. Please use the official standard charger to charge the battery. When there is low-battery warning, please charge it in time, and do not run out battery.

4. After use, please rinse in fresh water and dry in time, to reduce seawater corrosion. Store in a dry and ventilated place.

5. The drone is designed with positive buoyance. It is recommended not to install the balancing weight in fresh water, but to install it in seawater. The installation position should be adjusted according to the actual balance state of the drone, whichever is the best balance that the drone can achieve.

6. Wireless relay is designed for low grade waterproofing standards, do not use it directly in water.

7. Please check if any residual liquid such as water in all water-proof connectors. Please clean them before connection/charging. It is recommended to connecte to the wireless relay first, and then to the drone. The system will be powered on after connection, and will be powered off when not connected.

8. Please carefully check if any debris on the surface of motor and propeller before use; Do not put fingers or other body parts into the propeller when the drone is on. Please clean the debris on the surface of motor and propeller when powered off and rinse it with water before start.

9. Teenagers aged 16 and under should be accompanied by adults to use this product; Please control the speed of movement during use to avoid scratches or equipment damage.

10. Do not place heavy objects on this product. Do not expose it directly under the sun, or store it in very humid/corrosive place.

11. For operation, please connect the drone and wireless relay and connect to APP first, run compass calibration, and check video/data transmission and control status before putting the drone into the water. Seawater and fresh water should be set in the APP according to the operating environment to avoid inaccuracy of depth data.

**User Manual：**

**The contents and pictures of this manual are subject to the actual version and the latest version. The content is subject to change without prior notice. Please visit the official website "Download" page for the latest version. The APP updates frequently, please refer to the tutorial for beginners in the APP**

**APP Download:**

Android          IOS     

    2

## II. Product

**Overview:**

Geneinno T1 is a consumer level underwater intelligent drone, equipped with A17/A7 dual-core CPU, supporting H264/265 format, 4K video encoding and decoding.

Equipped with professional deep-sea starlight level 4k camera, front 3000lm led light, and built-in special image processing DSP,
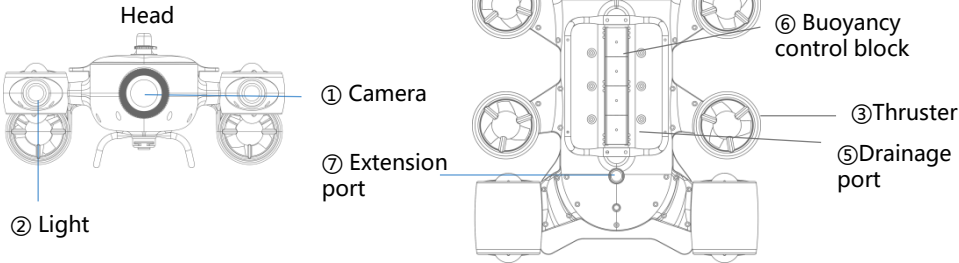
At the same time, the whole machine adopts industrial-grade waterproof scheme, with a maximum diving depth of 150m.The maximum speed is 2m/s, 2 high-power horizontal thrusters and 4 low-power vertical thrusters. The closed-loop control algorithm can effectively realize 360 degree full-attitude control, underwater hovering and self-balance.

**Packing list:**

1. Geneinno T1 Drone, wireless relay, cable & winder; 2. Charger; 3. Balancing weight; 4. The bluetooth handle; 5. Filter (user's choice); 6. User Manual
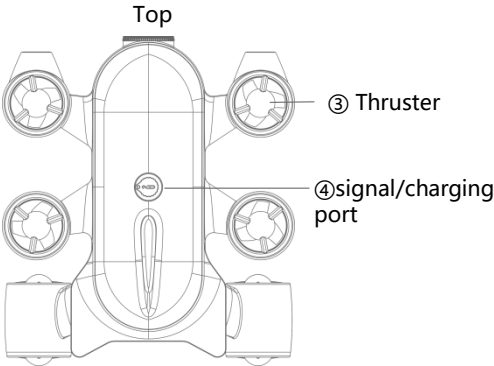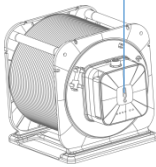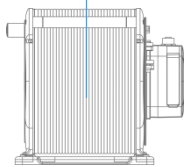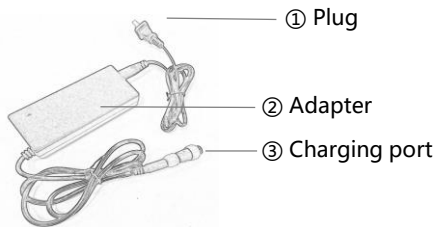
**Main parts:**

**Drone:**

Head

Bottom

① Camera

⑦ Extension port

② Light

⑥ Buoyancy control block

③Thruster

⑤Drainage port

Top

**Wireless relay:**

**Cable & Winder**      **Wireless relay**

③ Thruster

④signal/charging port

**Charger**



① Plug

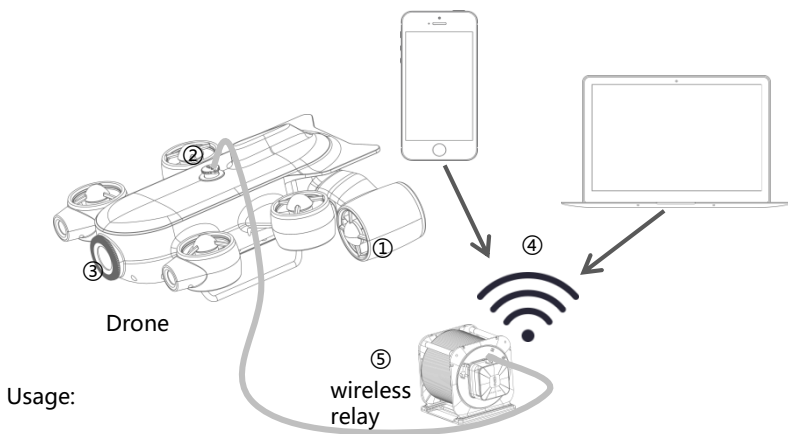② Adapter

③ Charging port

## Connect the system

Android and IOS



Drone

Usage:

wireless relay

1. Connect device: Insert one end of the wireless relay cable into the socket of the wireless relay and tighten it with force. Insert the other end into the socket of the drone and tighten it with equal force, then complete the connection and power on.

2. App connect: when the drone gets to work (about 1 minute after connection), the LED light on, the drone will flash twice every several seconds, it means the machine is ready to connect to your phone, pad and PC devices, search the Wi-Fi hotspot named GENEINNO_XXXX, connect your device to it, the default passwords is 88886666, then get to the app control interface.

3. Operation: Put Geneinno T1 into the water, you can freely control it to rise and dive. Wireless relay has low grade waterproofing standard. It is recommended to be placed on shore or on board and fixed to avoid the difficulty of recovery after being dragged into the water by the drone.

## Connect Bluetooth controller
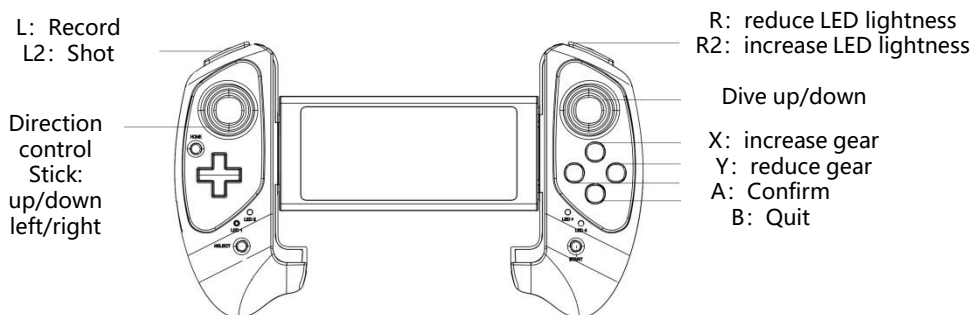
1. **Connecting：**

    A: Start up: push the left switch to on, press the Home button (about 2 seconds) to LED1 and LED2 to blink, and start the handle.

    B: Handle connection: after starting up, the working lamp flashes and the handle enters the connection mode. Open the right menu of APP homepage - bluetooth handle,
Click to search the bluetooth handle, and you will find the handle address and name (geneinno-xxxx). Click to connect. Led1/2 handle will always be on after successful connection.

    C. Power off: push the left switch to off and turn off the handle. 3 minutes after starting up, the bluetooth device is not connected, and the handle is off automatically. There is no operation for 5 minutes after the bluetooth connection of the handle, and the handle is off automatically

    D. Bluetooth handle connection status confirmation:

After successful connection of bluetooth handle, open GeneROV APP and enter the full-screen control interface of APP. The handle icon will appear in the status bar at the top of APP

L：Record
L2：Shot

R：reduce LED lightness
R2：increase LED lightness

Direction control Stick: up/down left/right

Dive up/down

X：increase gear
Y：reduce gear
A：Confirm
B：Quit



## Charge

1. The machine battery info will be seen at APP operation interface, battery signal light info will be seen at wireless relay; Please charge the drone when battery is low using standard charger and plug; charge the drone for 3 hours, wireless relay for 2 hours; signal lights on charger is red when it's charging, turn into green when fully charged.

2. Be sure, that there are no water in the plugs,before you start charging.
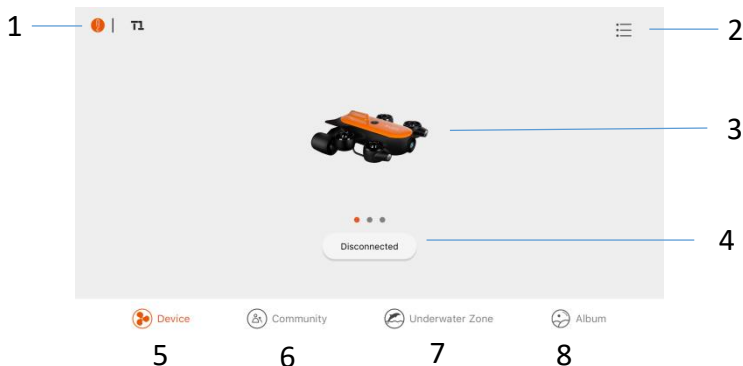


Charger

Charge

Drone

① 

② 
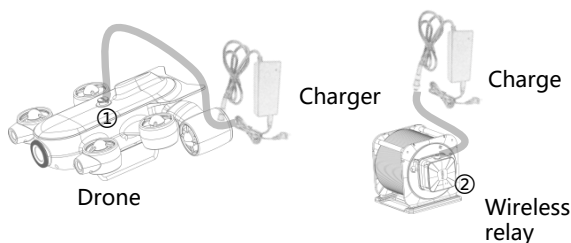
Wireless relay

① How to charge the machine: tighten the plug between charger and the drone

②How to charge wireless relay: tighten the plug between charger and wireless relay

## III. APP operation

### APP main interface



1
2
3
4

Disconnected

5     6     7     8

[1] : Product type

[2] : Menu (APP update, hardware update, Bluetooth controller, about and help options)

[3] : Product picture

[4] : Current connection status and entrance of operation interface
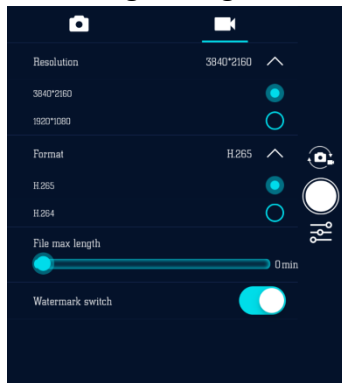
[5] : Device

[6] : Forum

[7] : Underwater City

[8] : Album

### App camera settings (in APP operation interface)

Camera settings are composed of photo settings and recording settings, as shown below:
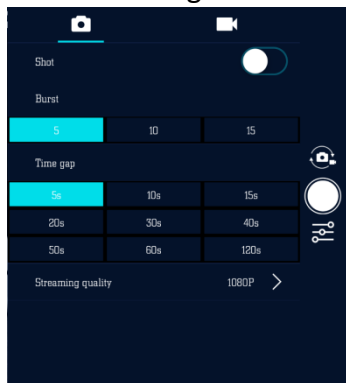
| Photo settings | Recording settings |
|---|---|



Photo settings are composed of three parts:
1. Single-shot mode
2. Burst-shot mode
3. Live stream resolution: activate after reboot

Recording settings are composed of four parts:
1. Resolution：4K / 1080P
2. Video Format：H265/H264,
   Video will be saved as MP4
3. File time length: range from 0-30min,
   unsegmented division when time length is 0
4. Watermark switchers: add depth, temperature,
   time and other info on photo/video

6

# APP operation interface
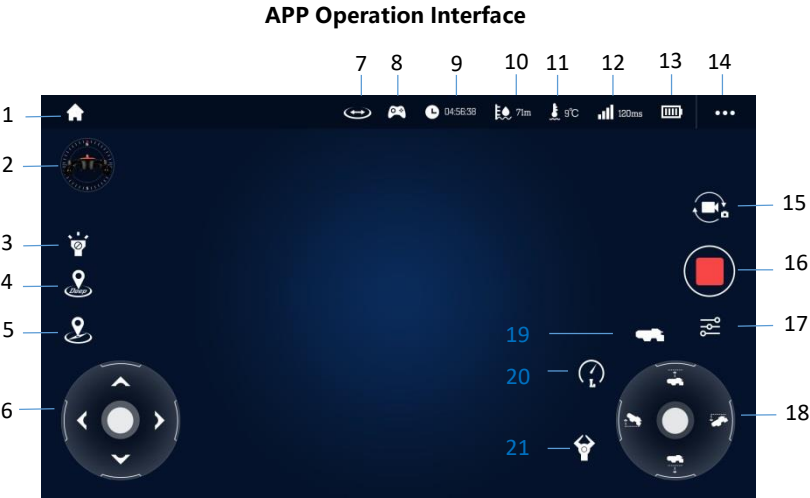
| [1] | : Return to main interface |
|---|---|
| [2] | : 3D real-time posture and attitude |
| [3] | : LED switch and lumen adjust |
| [4] | : Depth lock |
| [5] | : Direction lock |
| [6] | : Motion control wheel (Forward/Backward/Left/Right) |
| [7] | : Auto balance |
| [8] | : Bluetooth controller |
| [9] | : Running time |
| [10] | : Depth |
| [11] | : Water temperature |
| [12] | : Live-stream delay |
| [13] | : Battery |
| [14] | : System settings |
| [15] | : Shot/Record switch |
| [16] | : Shot/Record |
| [17] | : Camera settings |
| [18] | : Attitude control wheel (Up/Down/Tilt up/Tilt down) |
| [19] | : Tilt status & angle |
| [20] | : Speed gear |
| [21] | : Underwater gripper |

## APP system settings



1. Album : enter the remote album and local album
2. Auto balance : turn on/off auto balance
3. Compass calibration : start compass calibration
4. Environment setting : the option for fresh/salt water, select salt water or fresh water, which has effect on depth accuracy only
5. Left/right hand switch : change left/right hand mode
6. Unit setting : set unit to the Metric/British System
7. Battery info : display of battery information
8. User guide : APP user guide for starters
9. Firmware version : firmware version display
10. Storage : display of storage status in the machine
11. Restore to factory setting : restore machine to factory setting

## App photos and videos

App photos: divide into remote ROV directory and local directory, save, delete and select all the selected photos by long press
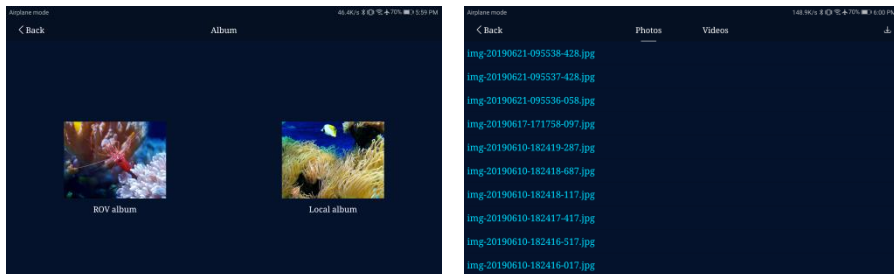


## Export photos and videos to the computer
### 1. PC
### Windows(Win 10 excluded):
First, use a laptop to connect to the device WIFI, and then enter \\192.168.8.8 in the start-run to open the device file system, Photos is the photo storage folder, Videos is the video storage folder, and when opened, you can copy, cut, delete or copy files from the computer.
### Win10
First, use a laptop to connect to the device WIFI, then open a browser, enter http://192.168.8.8/media to enter the device file system. Photos are in the photo storage folder, Videos are in the video storage folder. Right click on the file and click 'Save as' to download the selected files.
### Mac
The Mac connects to Geneinno T1 WIFI, and then open the Finder application on the Mac. After opening the application, press the command+K key on the keyboard and enter SMB:// 192.168.8.8 in the server address, then enter the storage folders to download files.

### 2. Android
First, use the tablet or mobile phone to connect the device. After successful connection, enter the photo video page, select the remote ROV directory, open and select the photo or video you want to open for download.

## IV. Brief Troubleshooting

1. Cannot search for GENEINNO WIFI hotspot after cable connection:
• Check if the cable is connection is tight.
• Check the buoy battery indicator, if the buoy battery is low.

2. Connected to the GENEINNO WIFI hotspot, but can't see the real-time video stream, and can't control:
• Check if Geneinno T1 LED flashes, such as flashing 3, 4 or 5 times, indicating the internal malfunction of the machine, please contact after-sales customer service.
• When LED light does not flash, please confirm if the battery is low or not, try to use it again after charging; if it still could not be used after charging, please contact after-sales customer service.

3. Motor obstruction
• Please power off first, manually remove the obstacles, and then turn on the power again. For more information, please open the APP for help information.

# V. Appendix

## Product parameter list

| Drone | |
|---|---|
| Weight | 9.7lbs (4.4kg) |
| Dimension | 15.35×13.66×6.5 inch |
| | 390×347×165 mm |
| Depth | 492.15ft (150m) |
| Speed | 6.6ft/s  (2m/s) |
| Degrees of Freedom | Forward/back, rise/fall, turn left/right |
| Thruster | 6 |
| Camera | |
| Image Sensor | 1/2.5 inches SONY CMOS |
| Video Resolution | 4K |
| Video Format | MP4(H264/H265) |
| Photo Fomat | JPEG |
| FOV | 160° |
| Lumen | 1500lm×2 |
| Micro SD | 32G |
| Tether | |
| Strength | 500N(50KG) |
| Length | 164ft/328.08ft/492ft (50m/100m/150m) |
| Diameter | 4.5mm/0.18 inch |
| Sensors | |
| IMU | 6 axis gyro & accelerometer+3 axis Compass |
| Depth Sensor | +/- 0.2m |
| Temp. Sensor | +/-0.5℃ |
| Battery | |
| Chemical | Lithium |
| Capacity | 10.8V/9000mAh/97.2Wh (drone) 10.8V/3200mAh/34.56Wh (wireless relay) |
| Run time | 4 hours(drone)/6 hours(wireless relay) |
| Charge time | 3 hours(drone)/3 hours(wireless relay) |
| App | |
| Platform | IOS 9.0 and Android 5.0 |

## Disclaimer

1. The company shall not be liable for the after-sale return and replacement of the product for any damage or failure caused by forced disassembly or non-machine operational malfunction, and the maintenance, parts replacement and transportation expenses incurred will be borne by the user.

2. Please use this product strictly following the instructions of the user manual. Any violations of the instructions result in injury, disease or property loss of the user, will not be borne by the company.

3. The company will not be responsible for after-sales maintenance of the non-standard equipment, third-party parts or structures installed or attached by users on the products which are not sold by the company. The company will not assume the obligation of product return or replacement  after sales due to damage or failure of additional parts, and the maintenance, parts replacement and transportation expenses incurred will be borne by the user.

4. Without official permission, the company shall not be liable for any loss caused by the use of this product in waters under military administration, waters prohibited from entering/photographing or sensitive waters.

5. Other losses that are not covered by the company, which stated officially, will not be borne by the company.

## Product warranty

1. If the product fails during operation, please go through the trouble shooting of the user manual, or contact and consult with our service team as soon as possible to avoid delay in your use and maintenance period.

2. This product is subject to the whole machine tracking service from the date of purchase by the customer. The warranty is one year. During the warranty period, the company is responsible for free repair due to the failure caused by the equipment itself. If the equipment is scratched or impacted, resulting in damage, which is caused by the user, or self-disassemble and etc., will not enjoy free maintenance by the company.

3. If the warranty period is exceeded, the maintenance fee will be charged for the repair to the customer. (repair cost + component fee)

4. For after-sales service, please visit our official website for online instructions:

 Website: www.geneinno.com

   or you could email us directly to our after-sale support:

 Email: support@geneinno.com

Please get the product ID number attached on the bottom of the drone and provide it to the after-sales support staff before your after-sales service. You are most welcome to give us valuable advice on our product quality and after-sale service.

# Official Media



Facebook



YouTube



Wechat



Weibo