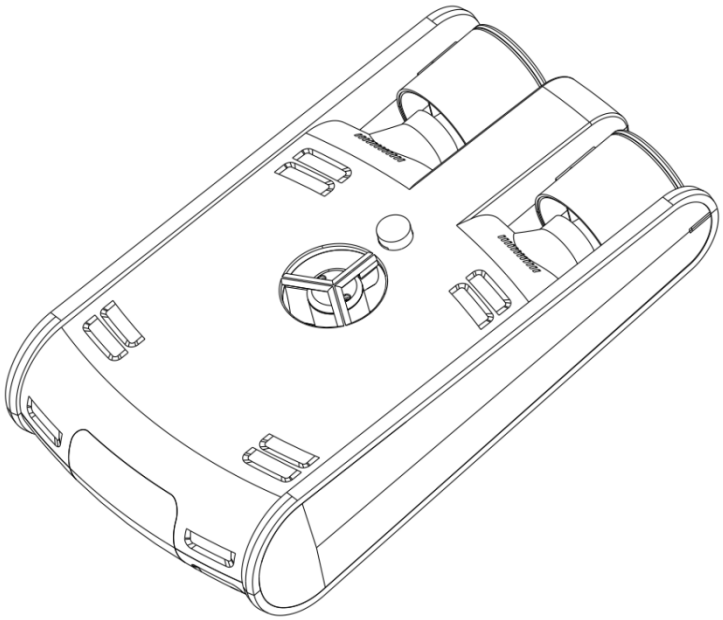
Poseidon I

User Manual V1.0

2017.7



GENEINNO

Product Name:Underwater Robot

Model Name:Poseidon I

Manufacture:Shenzhen Geneinno Technology Co., Ltd.

Catalog :

一、USING TIPS：PACKING LIST 、DOWNLOAD ADDRESS

Packing list :

1.Poseidon 1 User Manual

2.Drone

3.Buoy

4.Tether (30m/100m)

5.Charger

6.Remote Controller (Optional)

7.VR Google(Optional)

Download Address :

1. The user can obtain and view the documentation in the following ways to ensure the correct and safe use of the product

http://www.geneinno.com/Poseidon1/user-manual

Note : All technical parameter and operation details are subject to change without notice, please go to official website to get the latest user manual.

2. The user can download Geneinno App here:

http://www.geneinno.com

二、Product Profile：

Introduction：

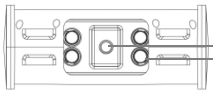
Poseidon 1 mainly includes a drone and a buoy and provides remote controller and VR goggle for selection。The control system is integrated in the drone，users can operate Poseidon 1 through app or browser to stream real time video.

Key Features：

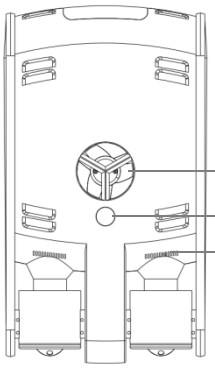
Poseidon 1 is integrated with full HD (1080P) camera which provides 5 million pixels for underwater photography and videography. It can dive as deep as 120m at fastest speed 2m/s underwater in saltwater or freshwater with LED lights. Users can operate Poseidon to stream real time video and capture the wonderful moments underwater.

Drone：

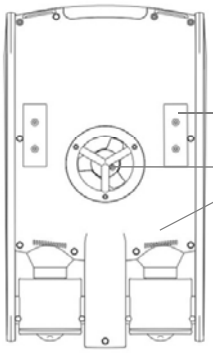
Head



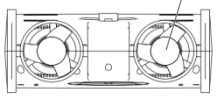
Body



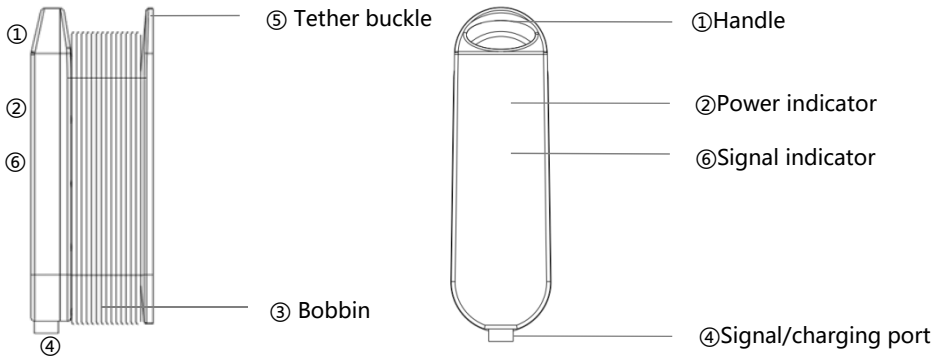
Body



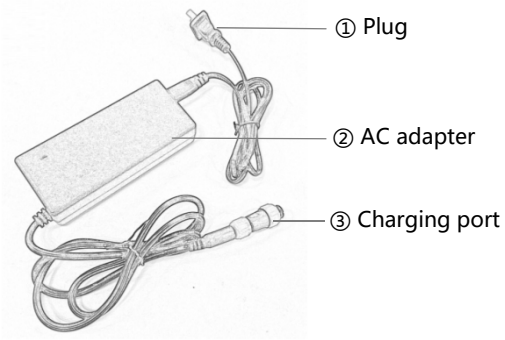
Tail



Buoy :



Charger :

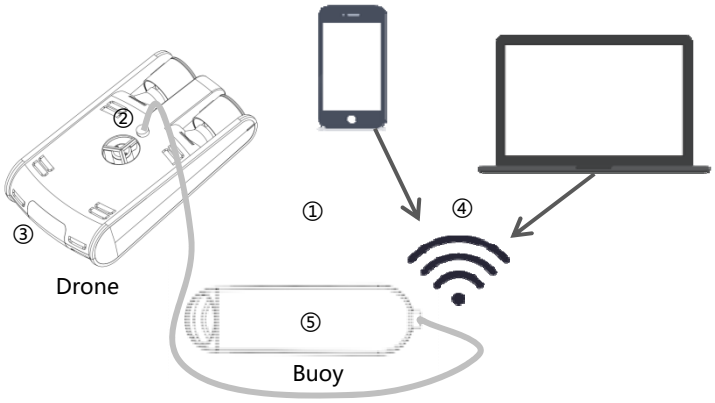


Remote Controller : App only (ANDRIOD和IOS)

How to Use Poseidon1：

PC：Google Chrome Only (Support flash)

Mobile：Android and IOS App



Steps：

①Open the package, you can find drone、buoy、charger、user manual ;

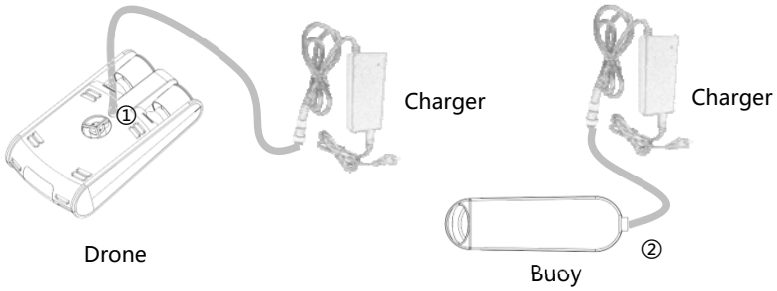
②Taking out the buoy, send out the cable with related length, smear the moderate sealing grease on the one waterproof plug, then insert to the plug of the drone, tighten to the designated location forcibly; Smear the moderate sealing grease on the other plug, tighten plug on the buoy, the drone and buoy will be working simultaneously when power supplying.

③After Poseidon 1 power on, the head LED light will twinkle 3 times from dark to luminous. The LED light will twinkle 4 times slow continuously and hint the user to connect if there is no operational terminal to be connected; Please re-insert and extract the buoy plug or contact the service person if the LED light twinkle 3 times slow continuously that means System connection failure.

④Take out your operated device (smartphone, PC, laptop etc), connect wifi on your operated device, you will find a network name of GENEINNO_XXX, click it and input the password: 88886666. Open Google browser or Geneinno App on your device (input 192.168.8.1) after connected, the Poseidon 1 information will be shown on the operated interface.

⑤Take out the Poseidon 1, put it into related depth water area (up 1 meter), the Poseidon 1 can be used by operating. The buoy is waterproof, however we advise to put it on the land or boat and fixed in order to prevent Smurfs 1 drag the buoy into water and it is difficult to recycle.

Charging:
The power info of the drone will be shown on the operated interface, the power indicator light info will be shown on the buoy; Please charge with standard chargers and plug when low power, the drone charging around 2 hours, the buoy charging around 3 hours.
It's needed to charge on the dry area, do not touch the water; There's red light shown when charging and green light shown after fully charged.



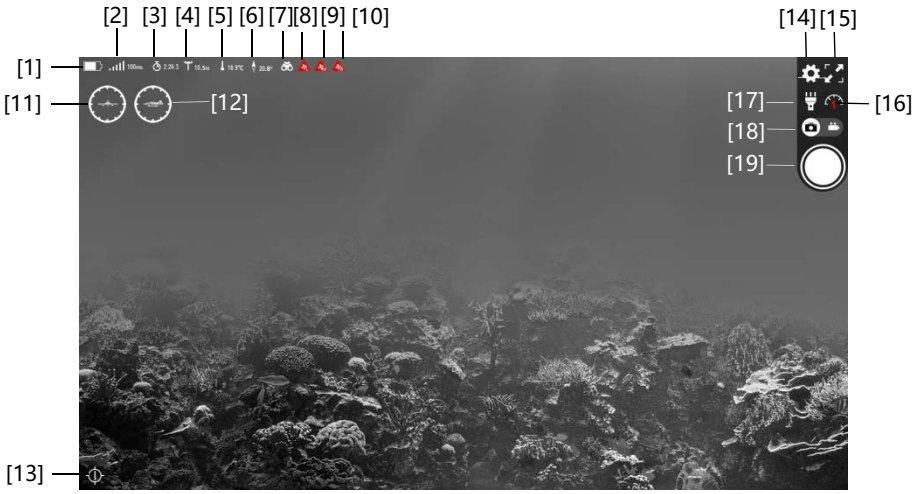
①Drone charge：open the charging port and get connected with the charger

②Buoy charge：open the charging port and get connected with the charger

Notice:
Poseidon 1 is designed by neutral buoyancy, we advise to use in the clean water area in order to avoid buoyancy balance when attaching the silt.
Please control the running speed when using, in order to avoid crashing with the rocks and lens scratched or equipment broken in fast running; Plsease contact the service person if any query during using.
Please operate to the short distance before take Smurfs 1 back, then pull the cable back to avoid block underwater. Please unscrew the buoy plug and unplug the cable after taken back, then save.

☰ Home page :

1.PC : home page



[1] : Battery life (Drone)
[2] : Running time (Drone)
[3] : Signal transport network delay between drone & PC
[4] : Depth
[5] : Temperature
[6] : Drone compass angle
[7] : Explore mode ; : Sports mode ;
[8] : Left thruster fault
[9] : Middle thruster fault
[10] : Right thruster fault
[11] : Rotate to left/right
[12] : Pitch angle
[13] : Depth-keeping
[14] : Drone info setting
[15] : Full-screen
[16] : Speed level
[17] : LED
[18] : Photo/video mode
[19] : Take photo/video

PC operating interface：

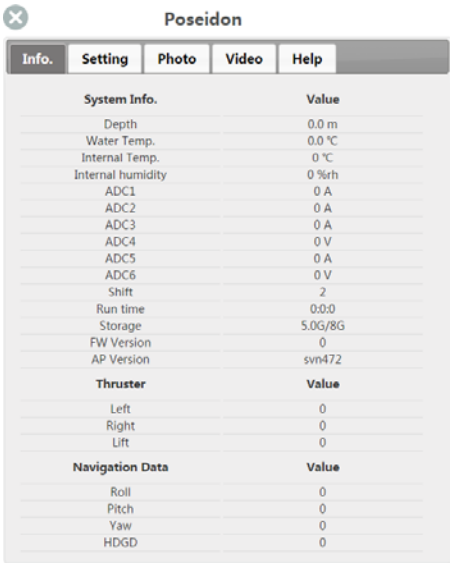
2.PC： Function keys sheet

Shortcut key	Function
Number key 1	Change to 1 gear
Number key 2	Change to 2 gear
Number key 3	Change to 3 gear
Number key 4	Change to 4 gear
Number key 5	Change to 5 gear
Direction key front	Go forward
Direction key back	Retreat
Direction key left	Turn left
Direction key right	Turn right
Ctrl	Diving
Shift	Come-up
I	Light ON/OFF

PC System Setting：

System setting including info, setting mode. Photo, video and help.

1. Info



2.PC Setting

PC settings by the photo setting, Record settings, Compass calibration, Water type and Motor pattern five settings.
Figure:

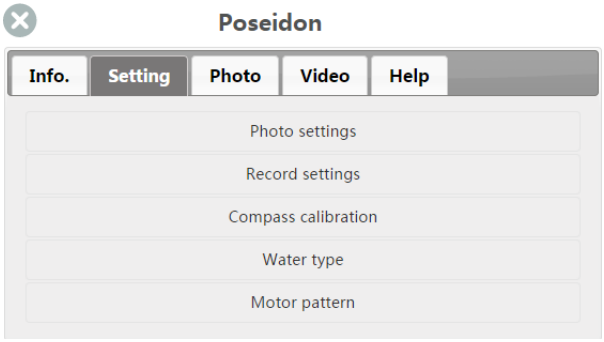


Photo settings : There are two kinds of models, respectively, single shot, continuous shooting

Record settings : it can be set to record video time (1-30 minutes)

Compass calibration : Start the compass correction

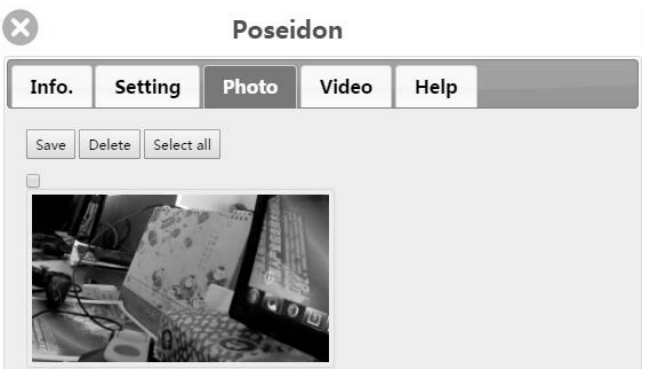
Water type There are two modes: seawater, fresh water (affecting the depth of the water sensor)

Motor pattern : There are two modes: exploratory mode, movement mode

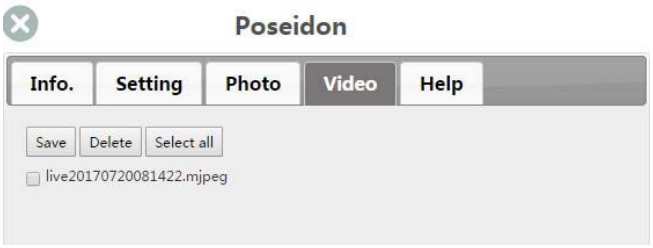
Explore mode: Slow mode, suitable for underwater slow moving observation

Movement mode: fast mode, suitable for fast moving scenes without obstructions

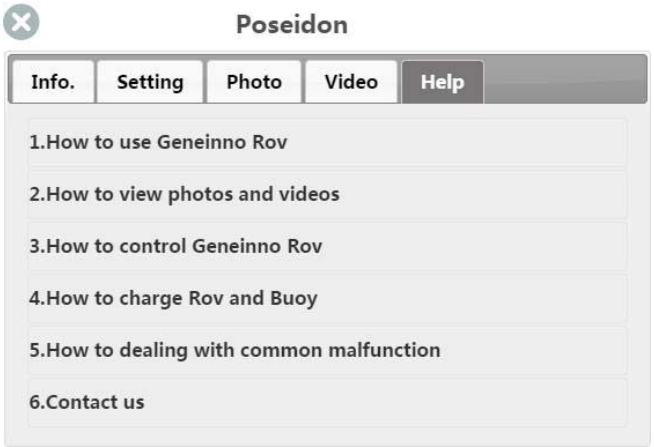
3. Photo: Save to download to the local; Delete; Select all . Figure：



4. Video: Save to download to the local; Delete; Select all. Figure:

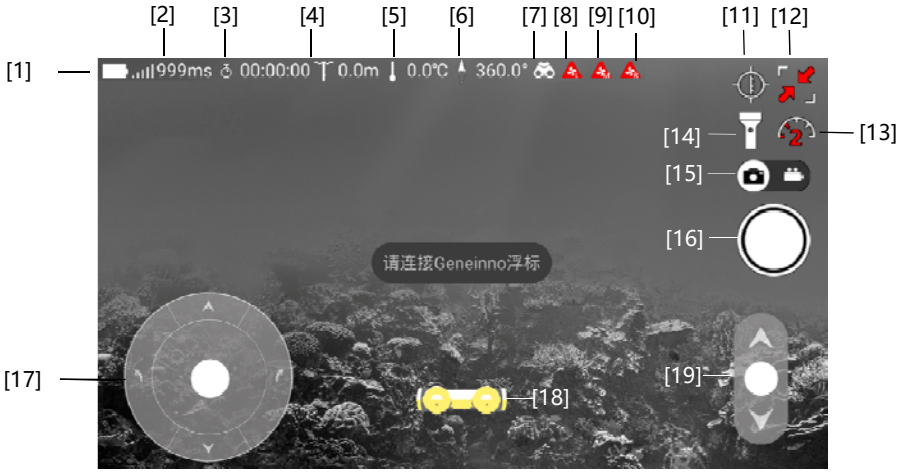


5. Help: how to use Smurfs 1, how to browse photos and videos, then operate Poseidon 1, how to charge the drone and buoy, how to handle common faults and contact us.
Figure:



App main interface:

1.App: Operation interface diagram



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[12] : Full-screen

[13] : Speed level

[14] : LED

[15] : Photo/video mode

[16] : Take photo/video

[17] : Control the host forward and backward turn left turn the

[18] : 3D posture real-time display.

[19] : Control the host to rise, sink..

App System Setting :

The system settings consists of information, settings, photos, videos, help, and more.
Figure:

App system settings interface

App settings consist of usage scenes, manipulation mode, camera mode, and burn settings.

1.App information from the water temperature, internal temperature, battery power, battery voltage, battery current, storage space, internal humidity, running time, firmware version, propeller speed, nine-axis data. Figure:

App info

: Water temperature
: Host internal temperature
: Host battery power
Storage space: Host internal storage space.
Battery voltage: host battery voltage
Battery current: host battery current
Internal humidity: host internal humidity
Run time: host run time
Firmware version: Host firmware version
Propeller: propeller parameters
Nine axis data: host 3D gesture

App setting：

2. App settings consist of usage scenarios, manipulation modes, Photo modes, and burn settings.
Figure：

App setting

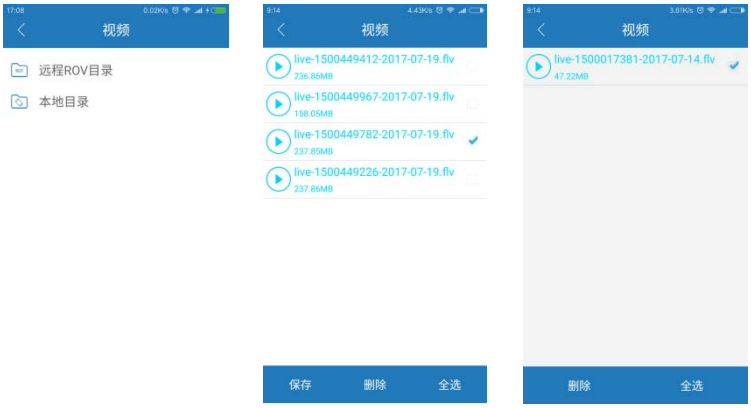
Usage scenarios: There are two modes: seawater, fresh water (affecting the depth of the water sensor)
Manipulation modes: There are two modes: the exploration mode, the movement mode
Exploration mode: Slow mode, suitable for underwater slow moving observation.
Movement mode: fast mode, suitable for fast moving scenes without obstructions.

Photo modes: There are two modes, single shot, continuous shooting
Burn settings: you can set the recording video time (1-30 minutes)

3. App photos: divided into remote ROV directory and local directory, long press to select the photo to save, delete and select all.

App System Setting：

4.App video is divided into remote ROV directory and local directory. Click the directory, long press to select the photo appears delete key and select all keys.

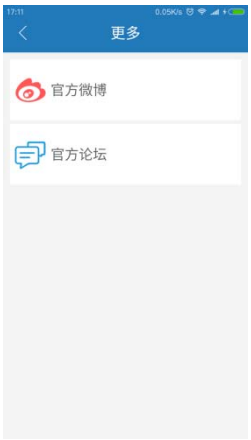


5.App Help: consists of connections, handles, faults, and composition. About the page by checking updates, sharing to friends, official microcredit, official website and business cooperation.

App System Setting :

6. App more: by the official microblogging and official forums.
Figure:

App more



IV. The Failure and Troubleshooting Methods

1. Can not search for GENEINNO WIFI hotspots after cable connection

Check if the cable is tightly connected

Check buoy power indicator, whether the buoy is low

2. Connected to the GENEINNO WIFI hot spots, but can not see the real-time picture, can not control

A, Check whether the host flashing lights, such as flashing 2,3 or 5 times, the host internal failure, please contact customer service

B, Do not blink, please confirm whether the host power shortage, try to re-use after charging; charge or can not be used, please contact customer service

3.Motor lock fault

Please first power off, manually remove the obstacles, and then power to re-boot.

五、Appendix

Product parameters

Drone	
Weight	7.48lbs (3.4kg)
Dimension	14.88×8.26×3.46 inch
	378×210×88 mm
Depth	393.7 ft (120m)
Speed	6.6ft/s (2m/s)
Degrees of Freedom	Forward/back, rise/fall, left/right, roll
Thruster	3
Camera	
Image Sensor	1/2.9 inches CMOS
Video Resolution	1080p
Video Format	H264 FLV
Photo Fomat	JPEG
FOV	120°
Lumen	600lm×2
Micro SD	32G
Tether	
Strength	500N(50KG)
Length	98.43ft/328.08ft (30m/100m)
Diameter	4.5mm/0.18 inch
Sensors	
IMU	3 axis gyro & accelerometer
Depth Sensor	+/- 0.2m
Temp. Sensor	+/-0.5℃
Battery	
Chemical	Lithium
Capacity	Drone:9000mAh/Buoy:2900mAh
Run time	5 hours
Charge time	2 hours
App	
Platform	IOS and Andriod

FCC Caution.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.