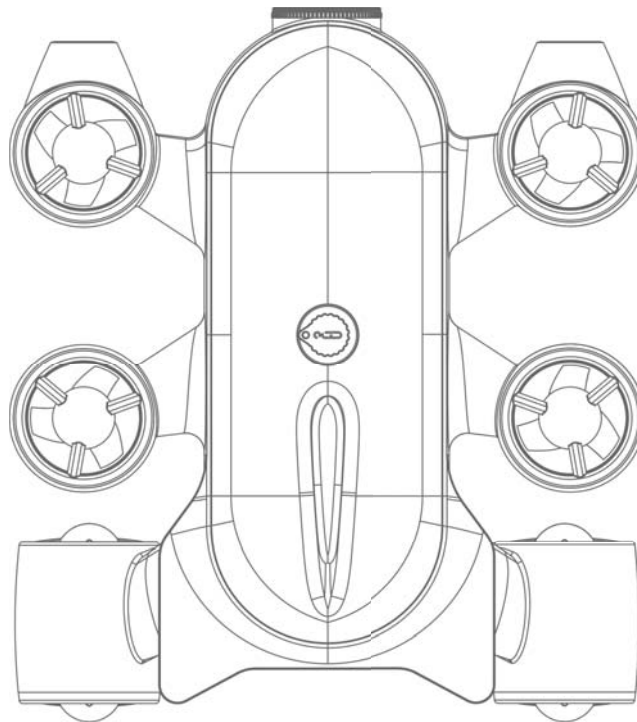


USER MANUAL

V1.0.0
2018.08

Underwater drone



Model: Titan



Shenzhen Geneinno Technology Co., Ltd.

CONTENT

Users tips	3
1. Product	
Overview	4
Host	4
Wireless relay	4
Connect Titan	5
Bluetooth controller	6
Charging	7
2. APP operation	
APP main interface	8
APP system setting	10
APP information setting	14
Get pictures and videos	17
3. Breakdown and solutions	
Normal breakdown	17
Solutions	17
4. Attachment	
Description	18
Product warranty	19
Contact us	20

User tips

packing list :

- 1.Titan, wireless relay, cable
- 2.Charger
- 3.Balancing weight
- 4.The bluetooth handle
- 5.Filter (user's choice)
- 6.User's Manual

Attention :

- 1.It is recommended that the weight Balancing block should not be installed in fresh water, and the weight Balancing block should be installed in seawater. The installation position should be adjusted according to the actual balance state of the host machine, whichever is the best balance that the host machine can achieve.
- 2.Wireless relay design for low grade waterproofing standards, do not use directly in water.
- 3.At the beginning of use, it is recommended that the cable be connected to the wireless relay first, and then to the host machine. The system will be powered on.
- 4.Please control the speed of movement during use to avoid scratches or equipment damage caused by collision.
- 5.After the end of use, please rinse and dry with fresh water, especially keep the insertion dry.Reduce corrosion of sea water and store in dry ventilation
- 6.Titan is designed for positive buoyancy. It is recommended to be used in clean water so as not to stick sediment to affect buoyancy balance.
- 7.Please connect the Titan to wireless relay before putting it in the water, set the fresh/salt water according to using environment

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.

APP:

Android



IOS



、 Product

Overview :

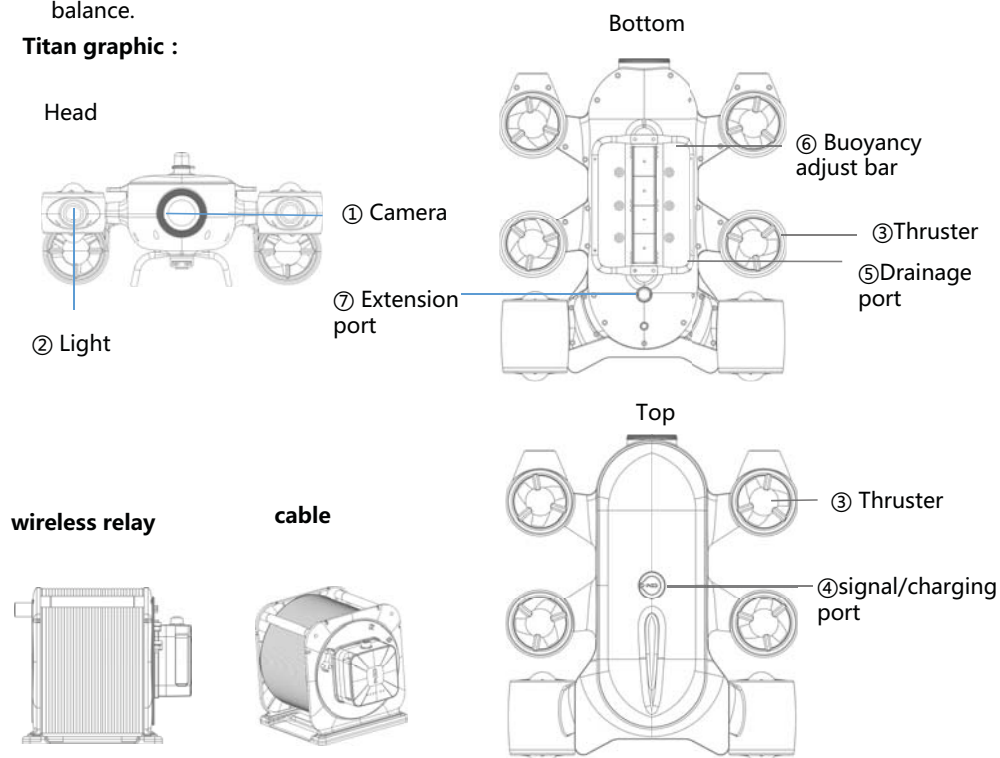
Titan is a consumer level underwater intelligent robot, equipped with A17/A7 dual-core CPU, supporting H265, 4K video encoding and decoding.

Equipped with professional deep-sea starlight level 4k camera, front 3000lm led lighting lamp, and built-in special image processing DSP,

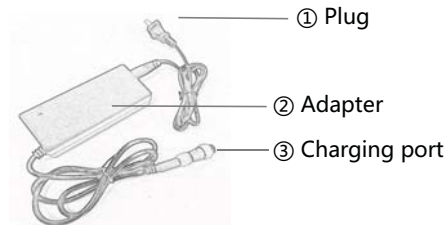
At the same time, the whole machine adopts industrial-grade waterproof scheme, with a maximum diving depth of 150m.

The maximum speed of underwater stealth 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 hover and self-balance.

Titan graphic :

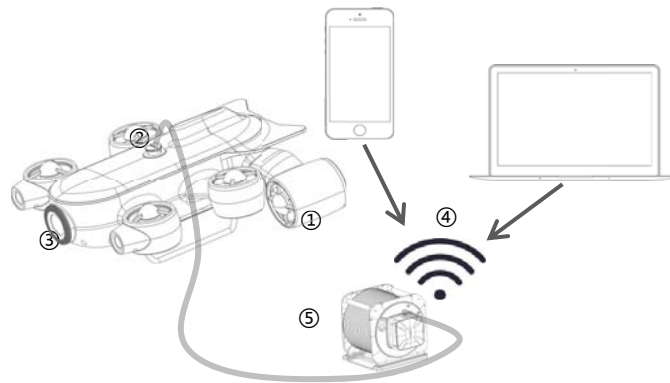


Charger



Connect Titan

Android and IOS



usage :

- 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 host machine and tighten it with equal force, then Complete Titan connection and power on.
- 2.App connect: when it gets to work(about 1 minute), the LED light on ,Titan will twinkle once every several seconds, it means the Titan is ready to connect your phone, pad 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.Using: Put Titan into the water, you can freely control Titan 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 Titan.

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

2. Bluetooth controller keys :

A: Menu and page confirmation keys, menu switching keys ;

B: Back for menu and pages, cancel ;

X: Gear reduce for one, doesn' t work when it' s in the min third gear ;

Y: Gear increase for one, doesn' t work when it' s in the max first gear.;

R: Light down for one, LED out when it' s 0, doesn' t work when it reach it min.

R2: Light up for one, doesn' t work when it reach the max.

R3(Press the right gear vertically): Turn on/off the lock of depth.

L: Start/pause recording ; L2: shot, start/pause burst ;

L3: (Press the left gear vertically): Turn on/off the lock of direction ;

Stick R: Pop for more page information(Home page), focus move to the right or current value increase for one(home page) ,

Stick L: Pop for the setting menu(home page), focus move to the left or current value reduce for one(home page).

Stick U: Focus move up

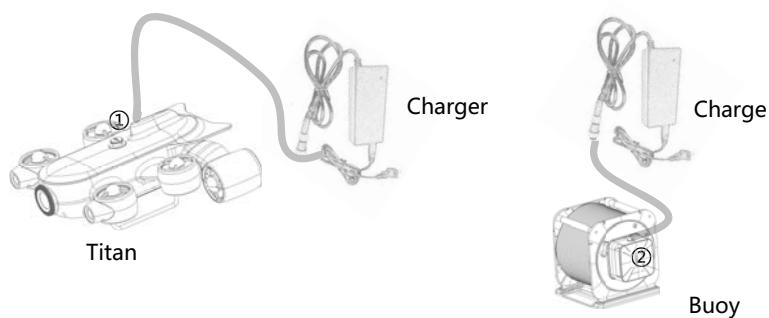
Stick D: Focus move down



Charge

1. Titan battery info will be seen at operation interface, battery signal light info will be seen at wireless relay; Please charge Titan when battery is low using standard charger and plug, charge Titan 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 it.

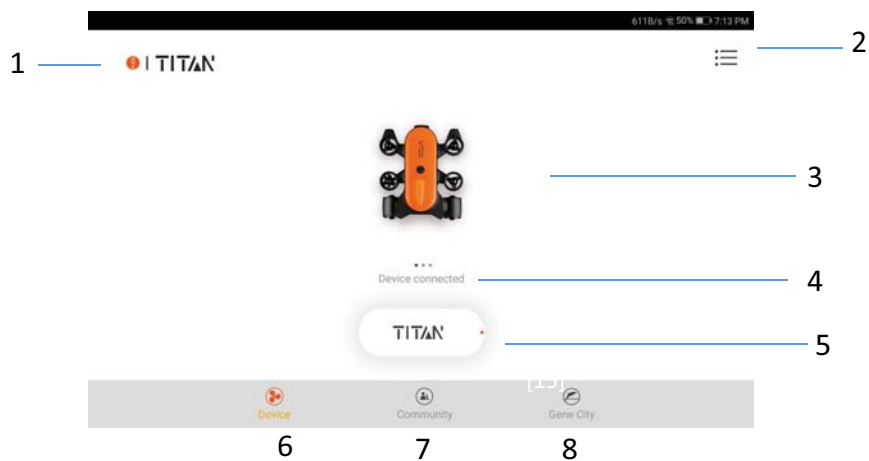










① How to charge Titan: tighten the plug between charger and Titan

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

APP interface

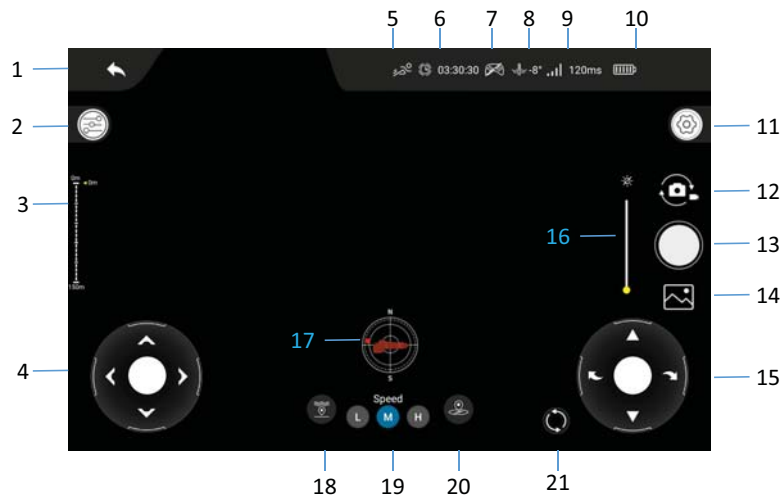
APP Main Page
























- [1]  TITAN : Product type
- [2]  : Menu (APP update, hardware update, Bluetooth controller, about and help options)
- [3]  : Titan picture
- [4]  : Current status
- [5]  : Current equipment name and entrance
- [6]  : Device
- [7]  : Forum
- [8]  : Underwater City

APP interface

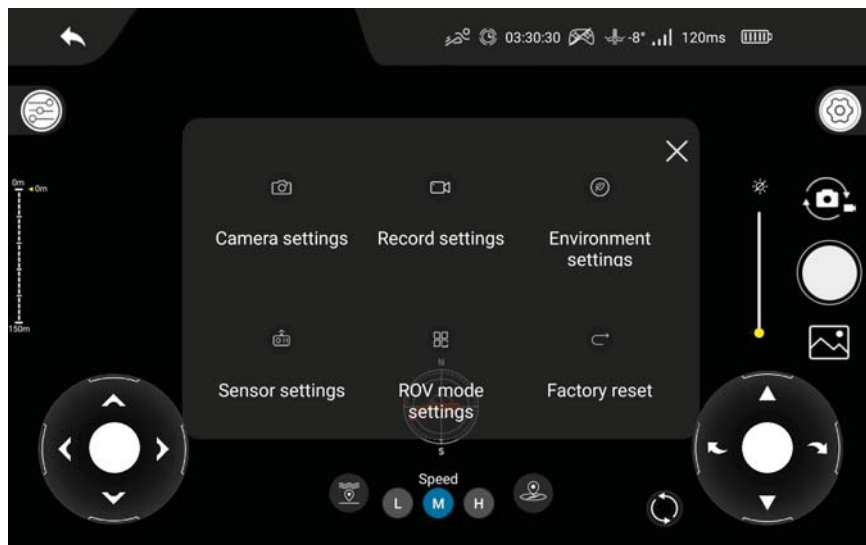
APP Operation Interface



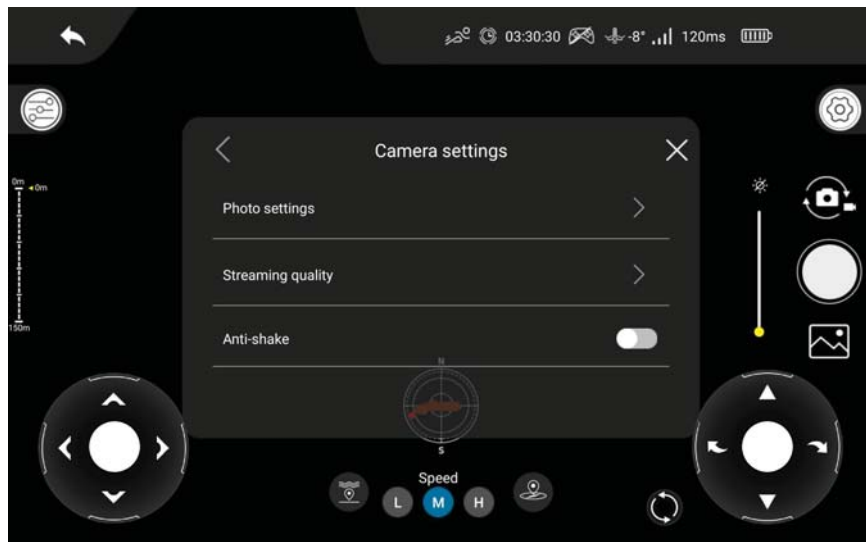
- [1]  : Return
- [2]  : Menu
- [3]  : Depth
- [4]  : Up/Down/Left/Right
- [5]  : Motion mode
- [6]  : Running Time
- [7]  : Bluetooth controller
- [8]  : Temperature
- [9]  : Delay
- [10]  : Battery
- [11]  : Settings
- [12]  : Shot/Film mode
- [13]  : Shot/Film
- [14]  : photos/Videos
- [15]  : Attitude control
- [16]  : LED
- [17]  : 3D real-time attitude
- [18]  : Lock Down Depth
- [19]  : Motion Switch
- [20]  : Lock Down Direction
- [21]  : Pitch reset button/pitch Angle display

APP System Settings

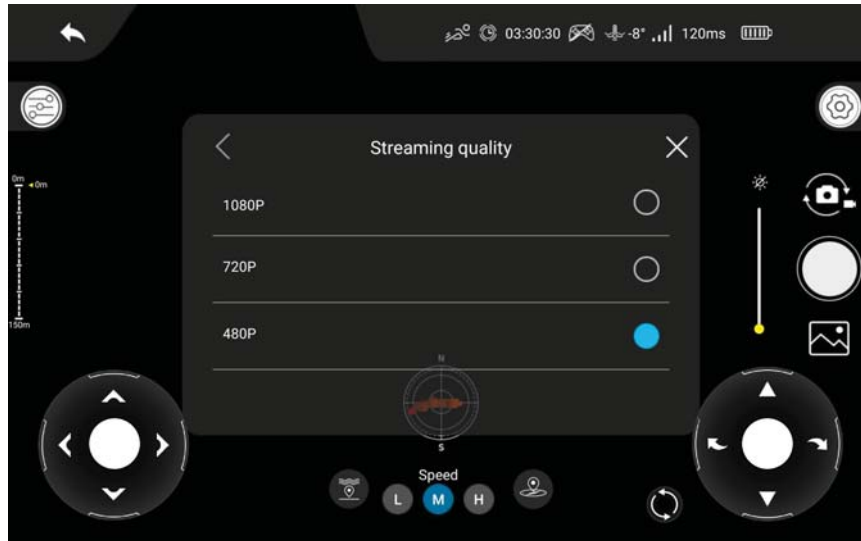
App system setting consists of camera setting, recording setting, environment setting, sensor setting, mode setting and restoring factory setting



1. Camera settings consist of Photo settings, streaming quality and anti-shake switchers.



APP System Settings



streaming quality can select 1080P/720P/480P, default 720P

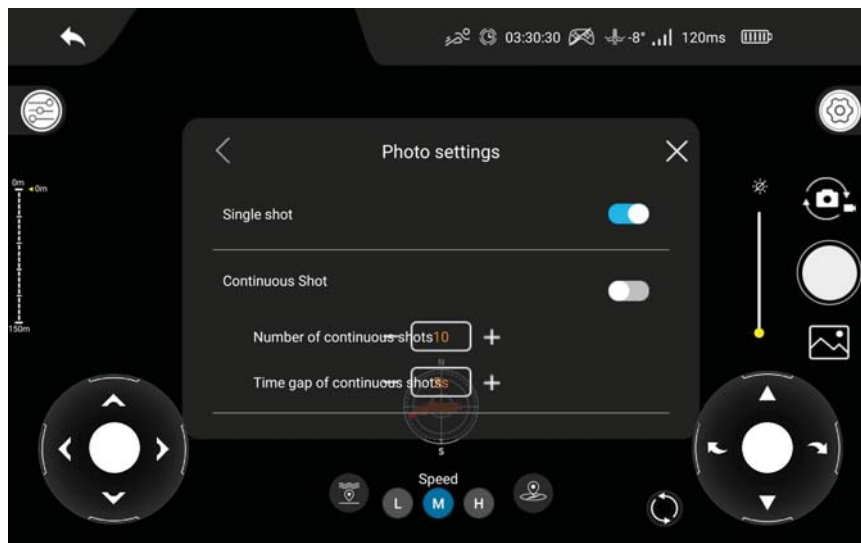
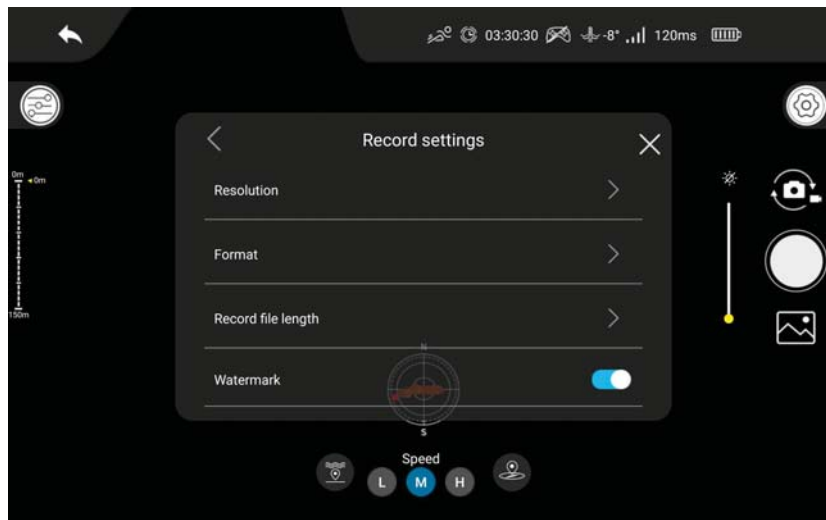


Photo settings can select single shot or Continuous shot, Continuous shot can shot maximum 99 pics, and max interval is 99 seconds

APP System Settings

2. Recording settings consist of resolution, format, Record time length, watermark switchers



Resolution: 3840*2140/1920*1080

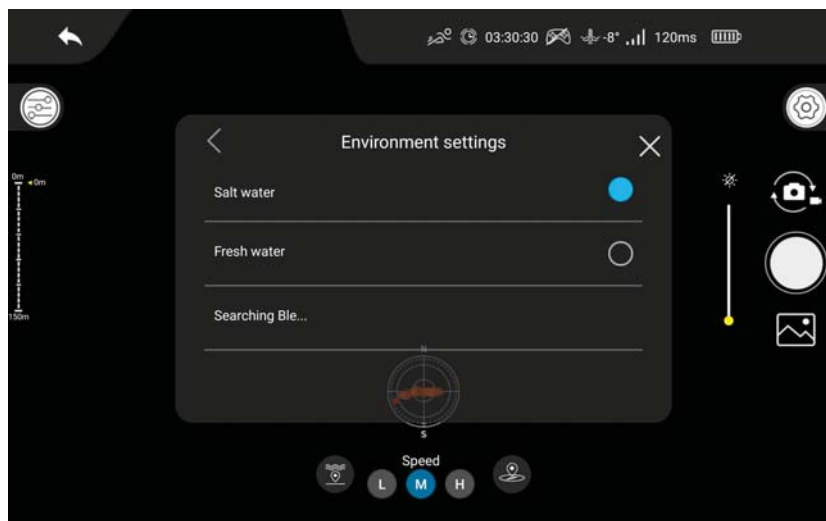
Format: H265/H264, All will be stored as MP4

File time length: range from 0-30, unsegmented engraving when time length is 0

Watermark switchers: add depth, temperature, time and other info on photo/video

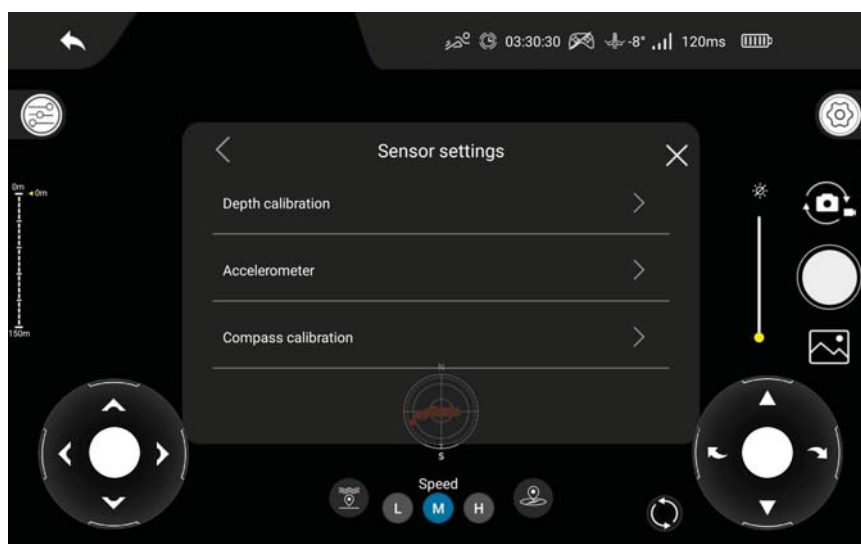
3. Environment settings can select ocean water or fresh water, ocean water or fresh water has effect on depth accuracy.

Search Bee used to connect bluetooth controller

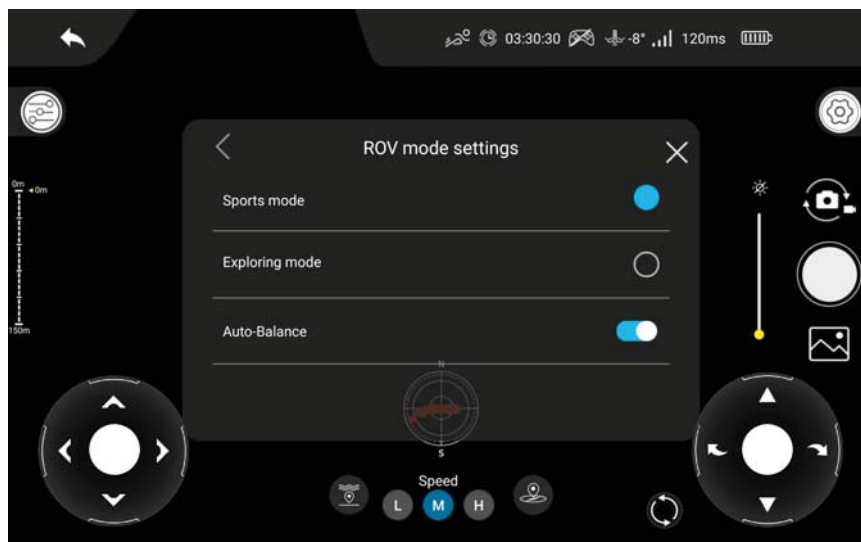


APP System Settings

4. Sensor settings consist of depth correction, accelerometer, compass correction

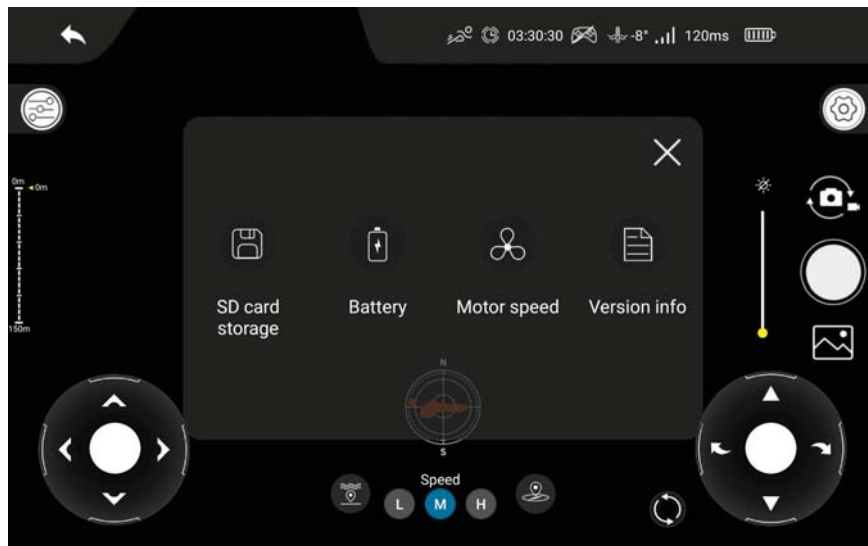


5. mode setting can select sport mode or exploration mode, and attitude balance function switcher



APP info

The information consists of SD card storage information, battery information, motor speed values, and version information. As shown:



1. Memory information: memory information displays current body memory capacity information. As shown:



APP info

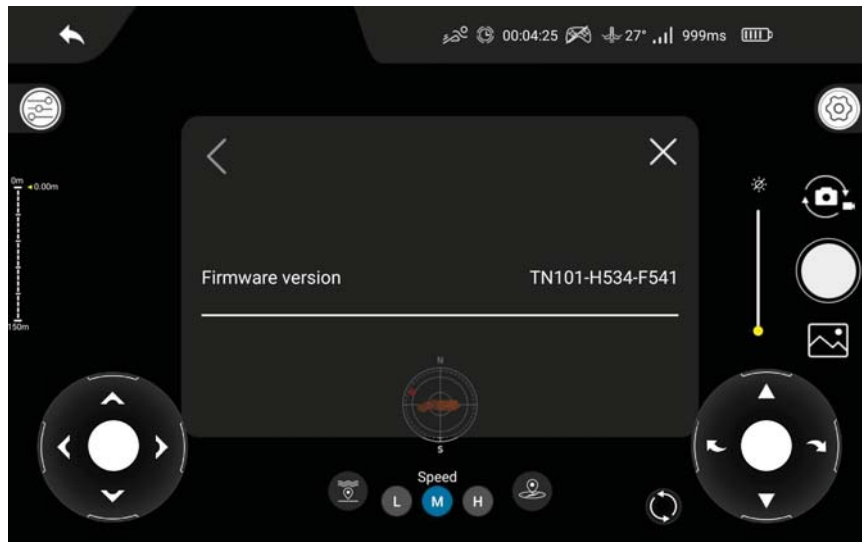
2. Battery information consists of current, voltage, power, water pressure, internal humidity, and internal temperature data.



3. The motor speed value information can display the current real-time speed of each motor in real time.

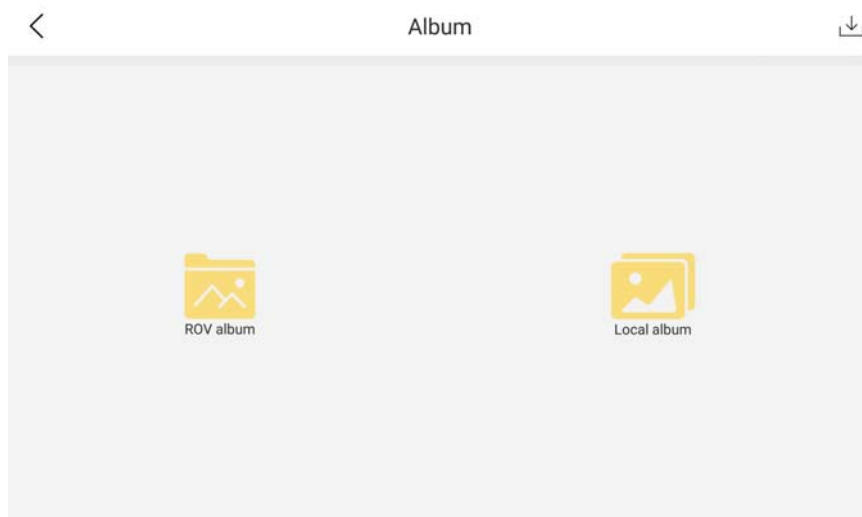


4. The version information shows the current device firmware version information.



App photo:

Divided into remote ROV directory and local directory, long press the selected photo to save, delete and select all.



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Export photos and videos to the computer

1. PC

Windows

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.

Mac

The Mac connects to Titan WIFI, and then opens 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.

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.

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 is low

2. Connected to the GENEINNO WIFI hotspot, but can't see the real-time picture, can't control

Check if the host flashes, such as flashing 3, 4 or 5 times, the internal fault of the host, please contact after-sales customer service

Do not flash, please confirm whether the host is low, try to use it again after charging; still can 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 help information.

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, left/right, roll
Thruster	6
Camera	
Image Sensor	1/2.5 inches SONY CMOS
Video Resolution	4K
Video Format	H265/MP4(H264)
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°C
Battery	
Chemical	Lithium
Capacity	9000mAh(Titan)/6000mAh(wireless relay)
Run time	4 hours(Titan)/6 hours(wireless relay)
Charge time	3 hours(Titan)/2 hours(wireless relay)
App	
Platform	IOS 9.0 and Andriod 5.0

Product warranty

1. If the product fails during use, please contact and consult with our company 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 casing is scratched or impacted, resulting in damage, such as damage caused by the user, and self-removal, etc., will not enjoy free maintenance.
3. If the warranty period is exceeded, the maintenance fee will be charged for the repair.
(repair cost + component fee)
4. After-sales service, please log in to the company website for online message:
Website: www.geneinno.com

You are welcome to give us valuable advice on our product quality and after-sales service.

TITAN MANUAL



Facebook



YouTube



wechat



weibo

FCC Warning

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.