QYSEA

FIFISH V-EVO user manual

Distributed by ROVITEC AS

rovitec.no

Manufacturer: QYSEA

Document: manual | v1.0

Source checked: 15 September 2026

Original manufacturer pages follow unchanged. Product configuration and technical limits are defined by the manufacturer document.

Official source

https://www.qysea.com/support/guides/fifish-v-evo/

Manufacturer content and copyright retained. Local distribution copy.

FIFISH
V - EVO



QYSEA

User Manual
V1.0

Foreword

Please pay attention to the content:

CAUTION: If you do not follow the instructions correctly, it may cause personal injury or equipment damage.

TIPS: If you do not follow the instructions correctly, you may not be able to operate smoothly.

Content

Backgrounds **1-3**

Safety and Regulations 1
Special Note 2
Disclaimer 3

Introduction **4-8**

About FIFISH V-EVO 4
Submersible Definition 5
Remote Controller Definition 6
Spool on Tether Definition 7
VR Goggle Definition (Optional) 8

Pre-Dive **9-16**

Install FIFISH App 9
Hardware Connect 10
Software Connect 14
Sensor Calibration & Deploy and Retrieve 16

Controlling **17-18**

Controlling Definition 17
Controlling Modes 18

Post-Dive **19-24**

Data Copy 19
Submersible Charging 23
RC Charging 24

FIFISH App **25-52**

User Interface 25
System Setting 30
Control Setting 32
Sensor Calibration 35
Storage 36
Camera Setting 37
Tool Box 38
Tool Box, Vision Lock 39
Tool Box, Mission Log 45
Tool Box, Auto Take Pictures 46
Tool Box, Assisted Driving 47
Tool Box, VR Control 48
Tool Box, LIVE Streaming 51
Tool Box, ROV Log 52

Appendix **54-57**

Maintenance 54
Install Robotic Arm (Optional) 55
Install Parallel Gripper (Optional) 57

Backgrounds

Safety and Regulations

Please read and watch the following documents and videos before using FIFISH V-EVO:

1. *Quick Start Guide*
2. *User Manual*
3. *Tutorial Video in '**FIFISH APP - Help - QYSEA Academy**'(iOS) or in Homepage (Android system)*



Do NOT touch the running propeller



Avoid overheating of motors, do NOT run the thrusters in air for over 30 seconds



Do NOT throw the ROV when deploying into the water



Do NOT look directly to the LEDs, and do NOT touch the LEDs when they are ON



Beware of the environment while operating the ROV (tide, water level, water traffics, etc.)



Avoid the reefs, rocks, seaweeds, fishline or other objects that may cause damage to or entanglement of the ROV or tether

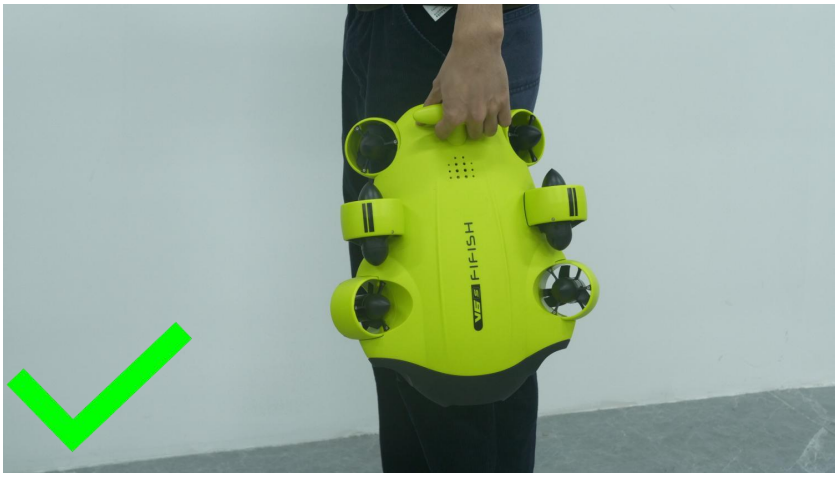


Be part of marine protection and conservation for the local coral and marine life



Maintain after dive, check the Maintenance Guide

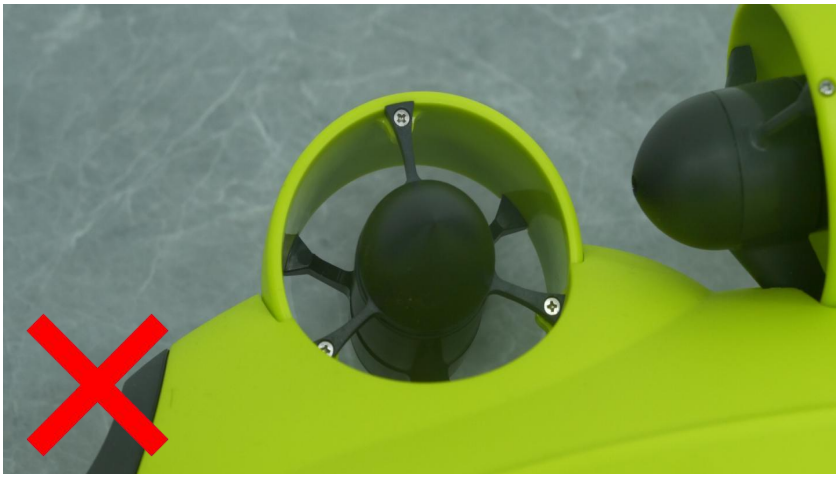
Backgrounds
Special Note



Holding on the **Rear Wing** when carrying submersible



Do **NOT** turn ON the LED in air longer than 10 second to avoid over heating



Do **NOT** unlock the motor in air over 30 seconds, to avoid over heating

Backgrounds
Disclaimer

We provide customers with after-sale services, excluding the following circumstances-

- Crashes damage caused by non-manufacturing factors, including but not limited to, pilot errors.
- Damage caused by unauthorized modification, disassembly, or shell opening not in accordance with official instructions or manuals.
- Damage caused by improper installation, incorrect use, or operation not in accordance with official instructions or manuals.
- Damage caused by a non-authorized service provider.
- Damage caused by unauthorized modification of circuits and mismatch or misuse of the battery and charger.
- Damage caused by dives which do not follow instruction and manual recommendations.
- Damage caused by operation in bad water conditions (i.e. strong currents, huge waves, etc.)
- Damage caused by operating the product in an environment with electromagnetic interference (i.e. in mining areas or close to radio transmission towers, caves, muddy condition, radiations, tunnels, etc.).
- Damage caused by operating the product in an environment suffering from interference from other wireless devices (i.e. transmitter, video-downlink, Wi-Fi signals, etc.).
- Damage caused by a forced dive when components have aged or been damaged.
- Damage caused by reliability or compatibility issues when using unauthorized third-party parts.
- Damage caused by operating the unit with a low-charged or defective battery.
- Uninterrupted or error-free operation of a product.
- Loss of, or damage to, your data by a product.
- Any software programs, whether provided with the product or installed subsequently.
- Failure of, or damage caused by, any third-party products, including those that QYSEA may provide or integrate into the QYSEA product at your request.
- Damage resulting from any non-QYSEA technical or other support, such as assistance with "how-to" questions or inaccurate product set-up, installation, and firmware upgrade.
- Damage caused by operating the ROV in the sensitive zone (military, natural resource protection zoning, marine conservation and ocean conservation, etc.)
- Damage caused by unpredictable factors (current, cave collapse, swallow by animal, etc.)
- Products or parts with an altered identification label or from which the identification label has been removed.
- The presence of water droplets or water stains on the ROV may be due to the running tests in water performed at our factory. This will not affect the features and function of FIFISH underwater robot.
- Please check the QYSEA After-sales Policy published by official website (https://www.qysea.com/support/after-sales/) for more detail.

For more information, please check our website for tuition videos, or read FAQ in FIFISH APP/help/FAQ.
For latest version of use guide/manuals and other instructions, check on our website.
Contact our technical support, email us support@qysea.com

⚠ Note:

This content is subject to change without prior notice.

Introduction
About FIFISH V-EVO

OmniView 4K 60 FPS Underwater Drone

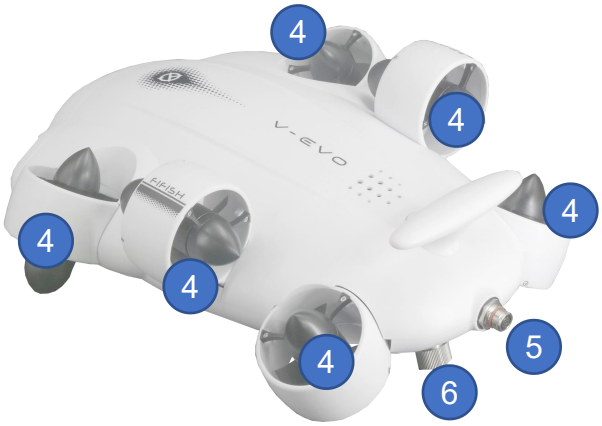
FIFISH V-EVO is the first underwater drone to combine a 4K · 60FPS high frame-rate camera with 360-degree autonomous movements, giving you the ability to create their own unique and cinematic underwater films and explorations.



Introduction

V-EVO Submersible Definition





FIFISH V-EVO

1. 4K UHD Underwater Camera
2. 2,500 lumens LED * 2
3. Rear Wing[1]
4. Thrusters (Aluminum alloy blade) * 6
5. ROV Tether Port
6. Q-Interface(accessory port)
7. Mounting Port
8. Venting Holes



CAUTION:

[1] Do NOT shake or swing while holding the rear wing.

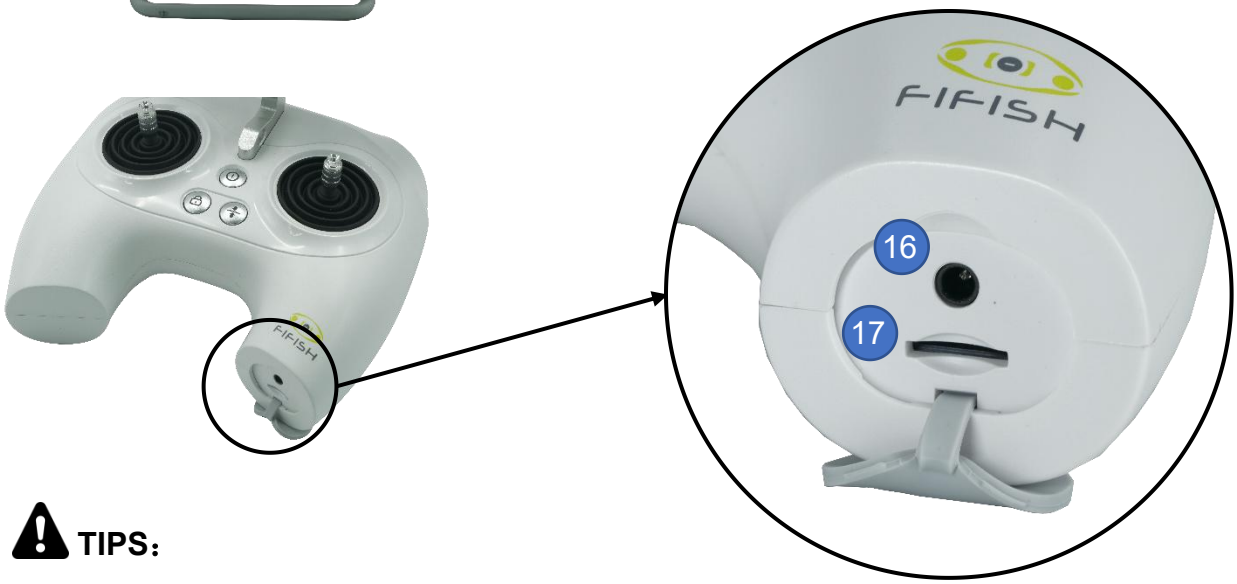
Introduction

Remote Controller Definition



RC (Remote Controller)

1. ON/OFF
2. Depth Holding (ON/OFF)
3. Thrusters LOCK/UNLOCK
4. Left Control Stick
5. Right Control Stick
6. Right Wheel
7. Left Wheel
8. Video (Record/Stop)[1]
9. Control Mode (Attitude / Sport / Combine)
10. Tether Port
11. Ethernet Port (mini USB)
12. LED Brightness (OFF, 1,2)
13. Photo (Snap)[2]
14. Charging Port
15. microSD Slot
16. Clamp Release Button
17. Clamp for Smart Device



TIPS:

[1] In photo mode, press and hold about 1 second, will switch to video mode.
[2] In video mode, press and hold about 1 second, will switch to photo mode.

Introduction

Spool with tether



Tether on Spool

1.Spool Handle

2.Spool Frame[1]

3.Tether Regulator

4.Foldable Handle[2][3]

5.RC Plug (3.5mm head port)

6.Secure Loop

7.ROV Plug

CAUTION：

[1] Please don't make the spool frame hit hard.
[2] The handle can be folded by pulling the handle.
[3] Please pay attention to the use of foldable rocker to avoid violent breaking.
[4] The reel is not waterproof. Please do not soak the reel in water or wash it directly.

Introduction

VR Goggle (Optional)



VR Goggle

1. Housing
2. Adjusting Sliders
3. Smart Phone Bracket
4. Adjustable Clamp (suit from 3.5” to 6.0” smart phone)

CAUTION:

Hold your cellphone when you lock and unlock the clamp

Pre-Dive
Install FIFISH App

Checking List
1. Gears checking
2. Battery is full (ROV, RC, cell/tablet)
3. ROV sensor calibration [1]
4. Smart device compatibility [2]
5. Enough memory for recording/picture
6. Team role setting (pilot, tether man, guide)
7. Entanglement threats, such as, the boat engine, underwater structures, and corals etc.

NOTE:
1. If you travel to elevated lakes, low land lakes, or air pressure has changed. Do a ROV sensor calibration is highly recommended
2. The best compatible smart devices list in, in FIFISH App, help/FAQ/Before Dive, #6

FIFISH App download and Installations

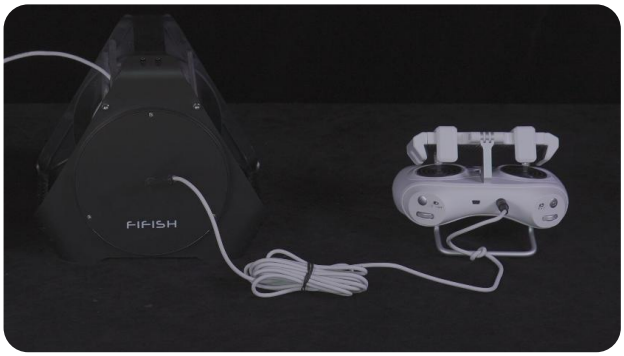
Option 1. Scan the QR code below to download FIFISH App.
Option 2. Search the FIFISH on App Store (iOS) or Google Play (Android).
Option 3. Go to QYSEA's website at https://www.qysea.com/support/app-download/

3.2. Hardware Connection

Overview



3.2.1. Plug the tether (3.5 mm head) into remote controller



Tips:

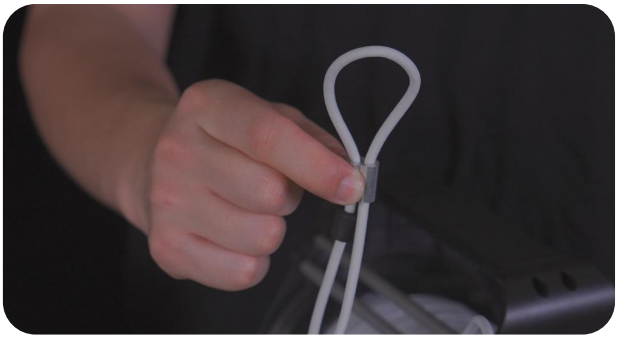
The cable (3.5 mm head) can be inserted into the remote controller after bypassing the bottom bracket and tying the safety knot to avoid the accident that the cable is pulled out.

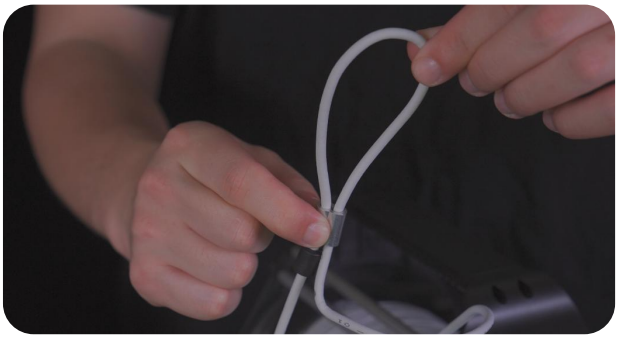


3.2.2. **The secure loop is sleeved into the tail wing.**
3.2.2.1. Unscrew the protective cap (please keep it properly) [1]



3.2.2.2. Pull the cable to release the safety lock





CAUTION:

[1] Please take good care of the protective cap, and cover it when the interface is dry after use.

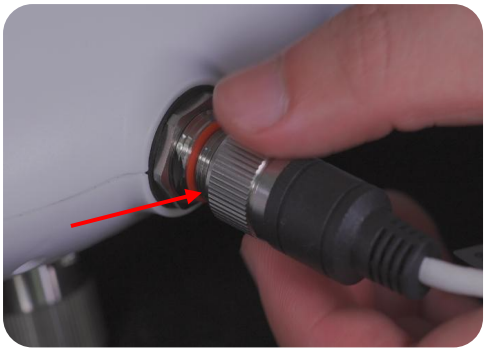
3.2.3. Put the safety lock tail wing around the tail wing and fasten it.[1]

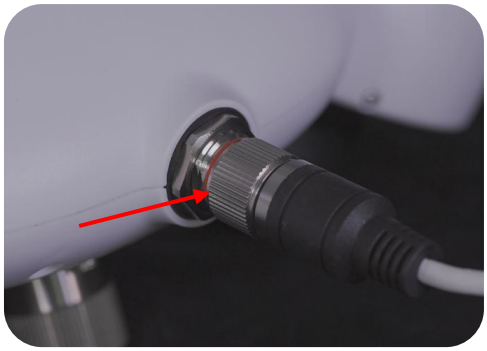


3.2.4. Align the tether port with the cable port at the ROV, connect it and tighten the bolt[2][3]









CAUTION:

[1] Check No or few gap between the black ring and the plastic ring
[2] Make sure the connector and interface are in a dry state before connecting
[3] Check whether the bolt is screwed to squeeze the O-ring.

3.2.4. Turn ON the RC. Press and hold the ON/OFF button (3 seconds)

•RC will play 7 chimes from low to high (Do, Re, Mi, Fa, Sol, La, Ti)

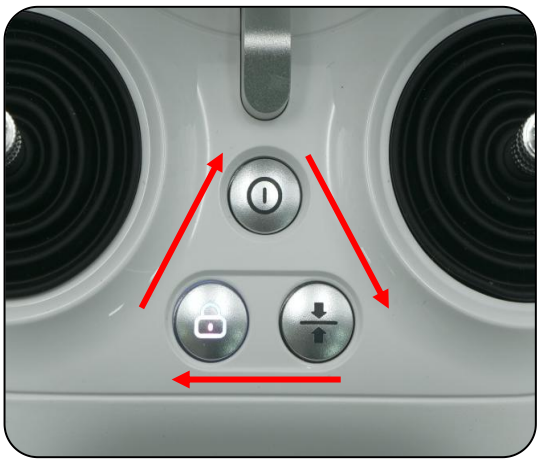
•ROV will turn on automatically, and play 5 chimes (Do, Re, Mi, Do, Mi)



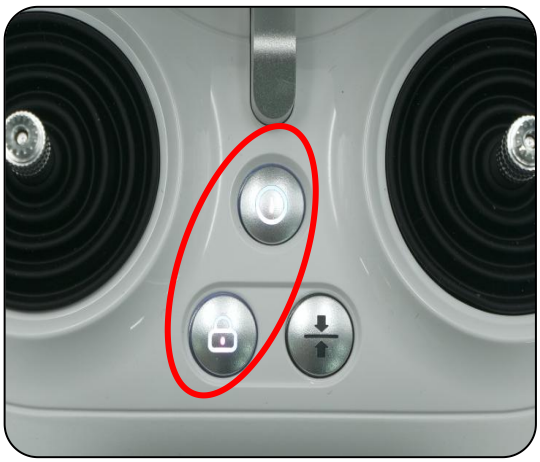
3.2.5. System connecting

The “ON/OFF”, “Depth Holding" and "LOCK/UNLOCK” will flash and rotate clockwise, which indicates "Ready to be connected“

In about 30 seconds, the "ON/OFF” and "LOCK/UNLOCK” buttons will stay solid that indicates the hardware connection successfully



3.2.5.1 connecting

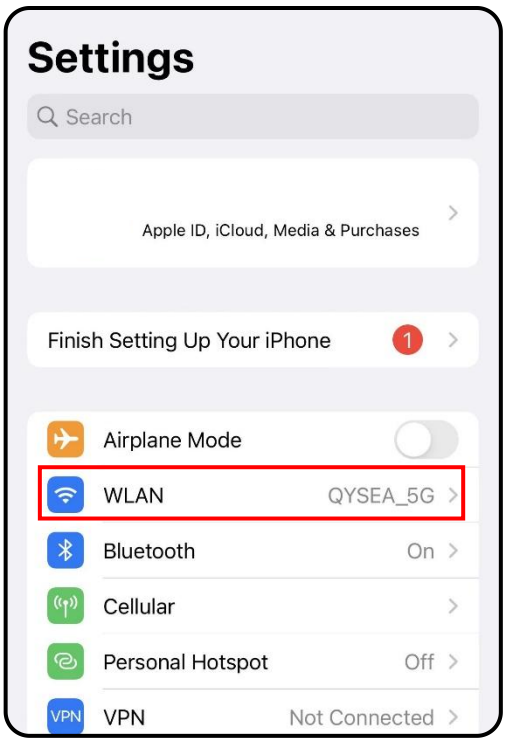


3.2.5.2 connected

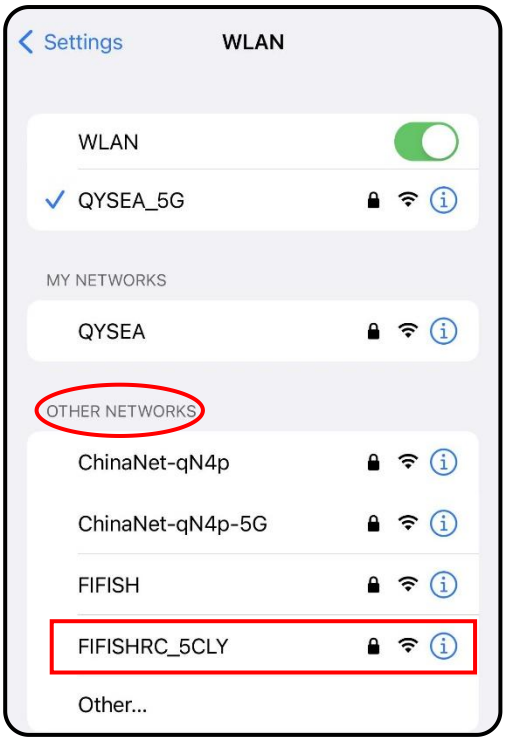
3.3. Software Connection

3.3.1. Smart device connect with the RC's Wi-Fi (5 GHz)

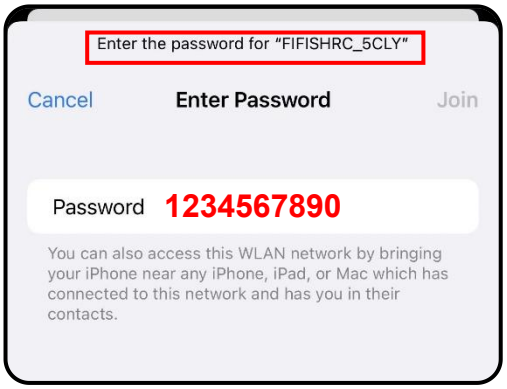
- Go to “Settings”, then “WLAN”
- Find the Wi-Fi network name “FIFISHRC_xxxx”
- Enter the password to connect, the default password is “1234567890”



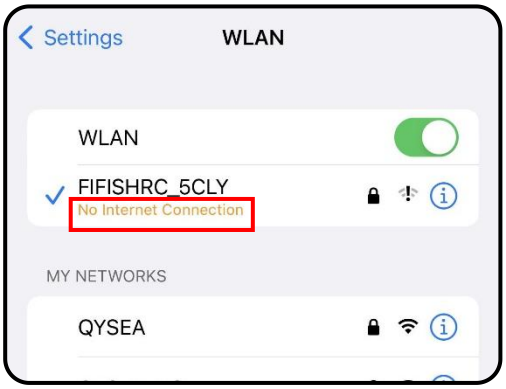
3.3.1.1 System settings



3.3.1.2 Select RC’s Wi-Fi



3.3.1.3 Enter password



3.3.1.4 Connected

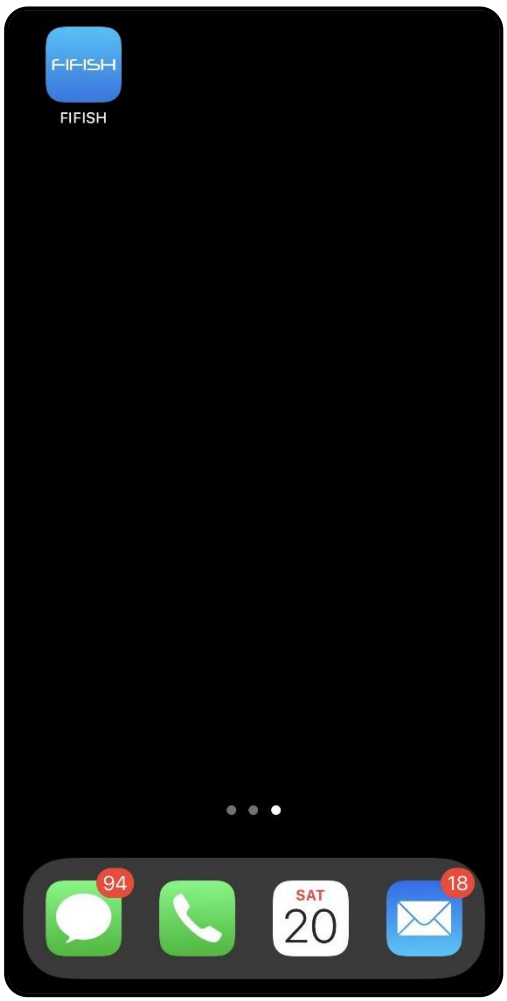
NOTE

*You might see the note “No Internet Connection”, keep this connection and do **NOT** use your cell data.*

3.3. Software Connection

3.3.2. Open FIFISH App, then press "**Connect**"

- Allow access to photo albums, location, and notifications
- Even the network did not connect to internet, select the "**Keep Trying WLAN**" for iOS user, "**Stay Connected**" for Android user.



3.3.2.1 Open FIFISH App



3.3.2.2 Connected

3.4. Sensor Calibration

3.4.1. Go to **General Setting**
3.4.2. Select the **Sensor Icon**
3.4.3. Follow the hit on FIFISH App step by step, first ***Gyro-Acce*** then ***Mag***
3.4.4. **Reboot ROV** in FIFISH App, and Power ON/OFF RC if necessary

3.5. Deploy the ROV

- ONLY pulling on the tether to deploy the submersible into the water.
- Unlock the thrusters then start to dive.



NOTE

The depth shall greater than 1 meter (about 3 feet) for better operate experiences.

3.6. Retrieve

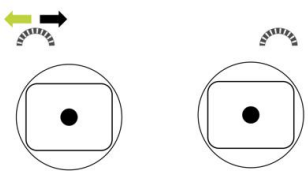
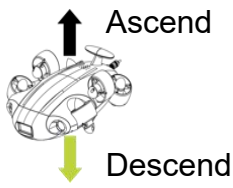
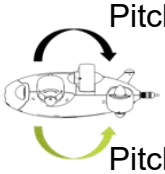
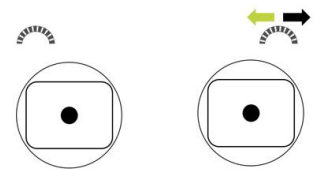
6.1. **LOCK** the thrusters
6.2. **STOP RECORDING** the video before closing the FIFISH App
6.3. **ONLY PULLING** on the tether to retrieve the submersible

Controlling
Controlling Definition

Definition of Controlling
The FIFISH V-EVO uses the patented ***Smart Thruster Array***™ to ensure the ultimate maneuverability and delivers the 6 DOF (degree of freedom).
- V-EVO can move in descend & ascend, left and right, forward and backward.
- V-EVO can rotate in 360 yaw (z-axis), 360 pitch (y-axis), 360 roll (x-axis).

We have simplified the Left Control Stick, Right Control Stick, Left Wheel and Right Wheel into the following symbol. The arrows on RC indicate the command and the arrows on ROV indicate the actual movements.



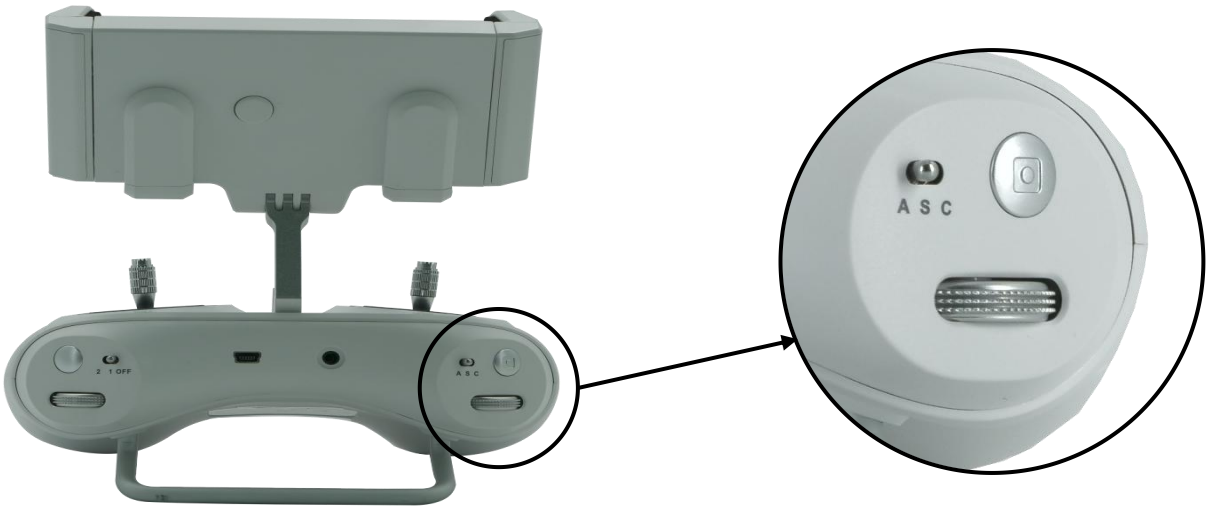
Simplified RC Command	Control Preferences	
	ROV Modes (USA/JPN/CHN)	UAV Modes (USA/JPN/CHN)
	 Ascend / Descend	 Pitch Up / Pitch Down
	 Left / Right	Roll Counter Clockwise[1]  Roll Clockwise[1]

NOTE:
From the FPV (first person view) the **green** is rolling counterclockwise and **black** is rolling clockwise, and the rolling can activate in Sport or Combination Mode.

Controlling
Controlling Definition

Controlling Modes

FIFISH V-EVO supports 3 modes for control: A, S, and C.
A is Attitude mode, S is Sport mode, C is the Combination mode.



Attitude Mode

Attitude mode is designed for beginners. The ROV will not roll in Attitude mode. The ROV will stay in same depth moving when depth holding is ON. Even with pitch angle, the depth will be the same.

Sport Mode

Sport mode is designed for skillful pilots. Sport mode will enable the rolling freedom, so, you will access all 6 degree of freedom of the ROV. Controlling and moving based on the FPV (Frist Person View), do not operate in third person view. The ROV will only stay in the same depth with no command input, when depth holding ON.

Combination Mode

User puts the mobile phone into VR glasses after turning ON VR mode in the FIFISH APP toolbox, and turns the controller to C mode. Combination mode activate the head tracking controlling via VR Goggle[1], which allow pilot to use the VR Goggle[1] to pitch, roll and yaw. Combination mode delivers the intuitive control and immersive experiences. Combination mode supports head tracking and remote controller working together.

TIPS:

[1] To use Combination mode, users need to have user's own VR glasses or FIFISH VR Goggle ready

Post-Dive
Data Copy

5.1. Video/Photo Download

5.1.1. Connect with RC and Submersible with the tether

5.1.2. Software connect



Post-Dive
Data Copy

5.1. Video/Photo Download

5.1.4. Please keep the remote control connected to the submersible when it is turned on.Turn ON the Depth Holding (submersible will not beep after 10 min static)





5.1.5. Press **MEDIA**, then Press **DEVICE**

5.1.6. Select the Camera, SDCard 1 is the main camera, SDCard 2 is the secondary camera (Note: SDCard 2 only be displayed if equipped with Q-Camera)





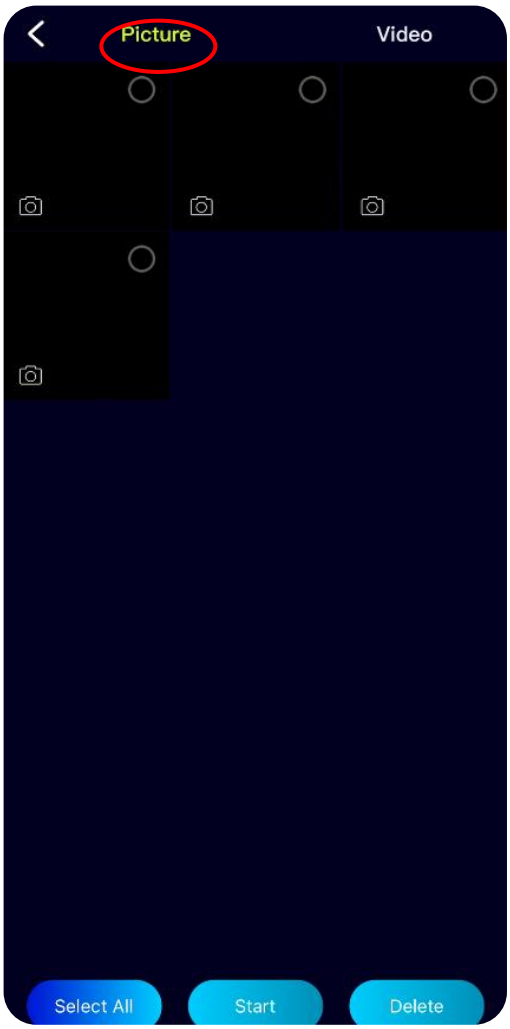
TIPS:

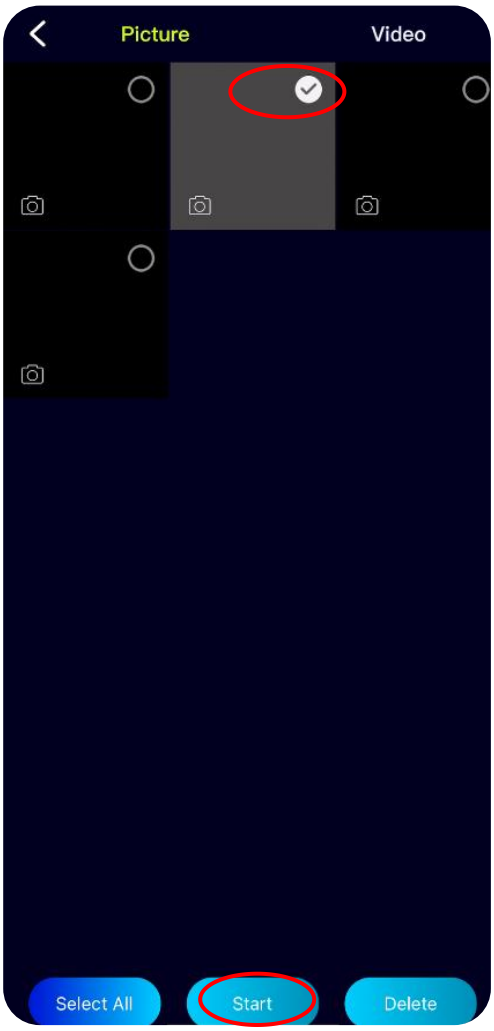
The video/picture stored in "Local" is the material that has been successfully exported from the device to the mobile phone/tablet

Post-Dive
Data Copy

5.1. Video/Photo Download

5.1.7. The default is **Picture**, select **Video** if you only want to copy out the videos
5.1.8. Press and hold on desired clip over 1 second, then you can select the clip(s) you would like to copy
5.1.9. After you satisfied then press the **Start**



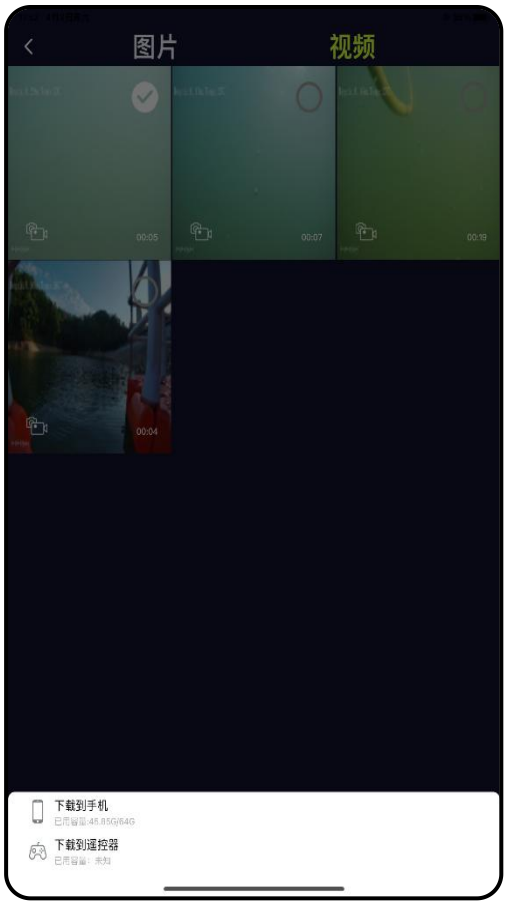


Post-Dive
Data Copy

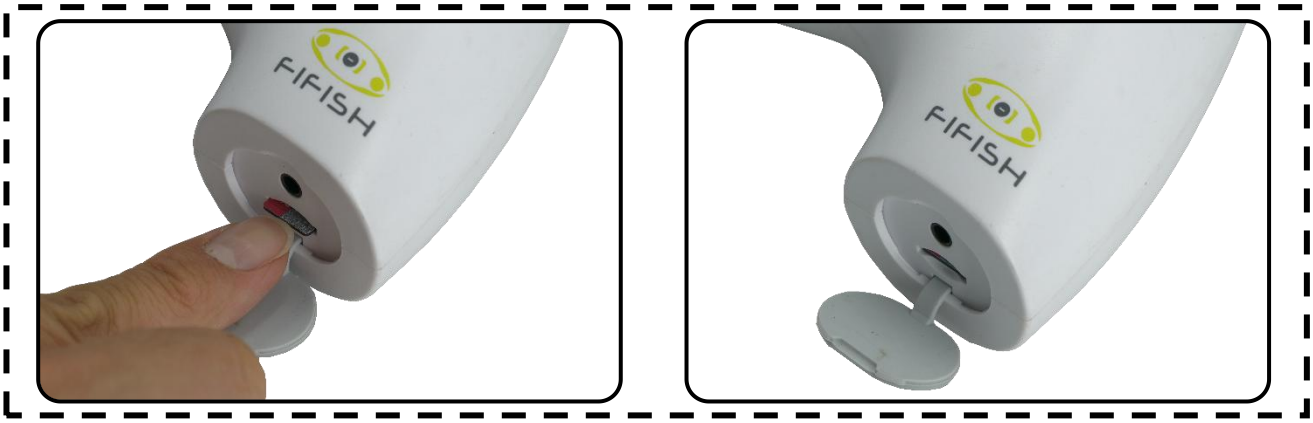
5.1. Video/Photo Download

5.1.10. Select the place to copy

5.1.11. Do **NOT** minimize the FIFISH App while downloading



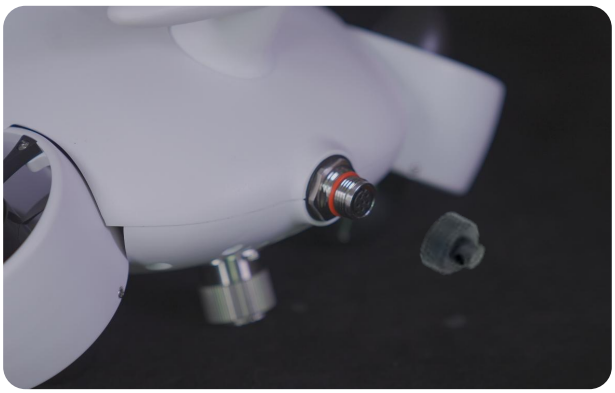




TIPS：

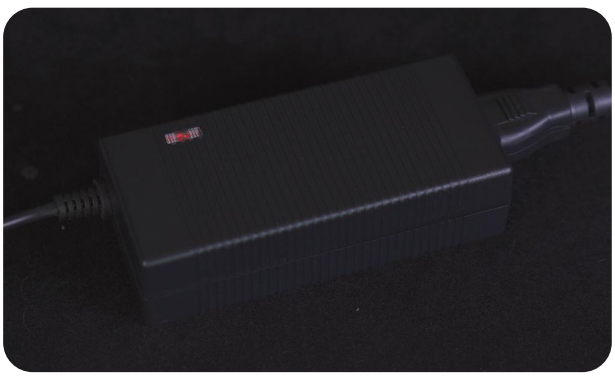
Please make sure that the remote control has an SD card inserted if you want to copy them to the remote control;

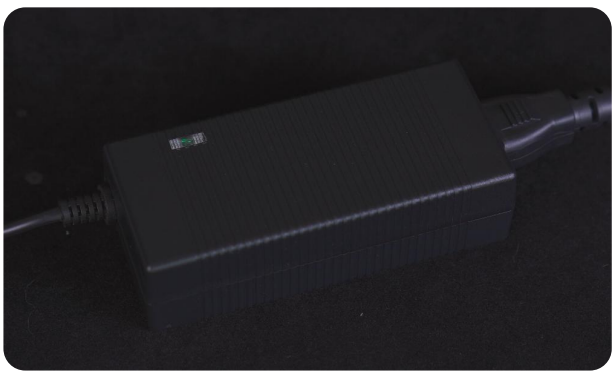
5.2. Submersible Charge





5.2.1. Unscrew the protective cap and connect the power adapter connector to the main cable connector and turn on the power.

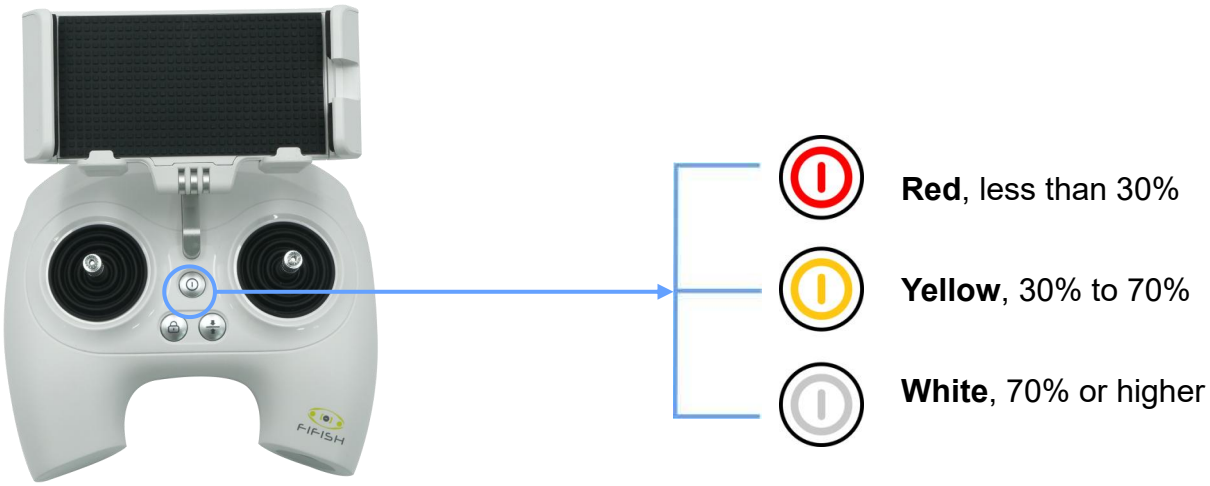




5.2.2. The indicator light of the power adapter will turn red until it is fully charged and then turn green.

5.3. RC Charging

Flashing ON/OFF button means RC is charging
White steady ON/OFF button, RC is fully charged.



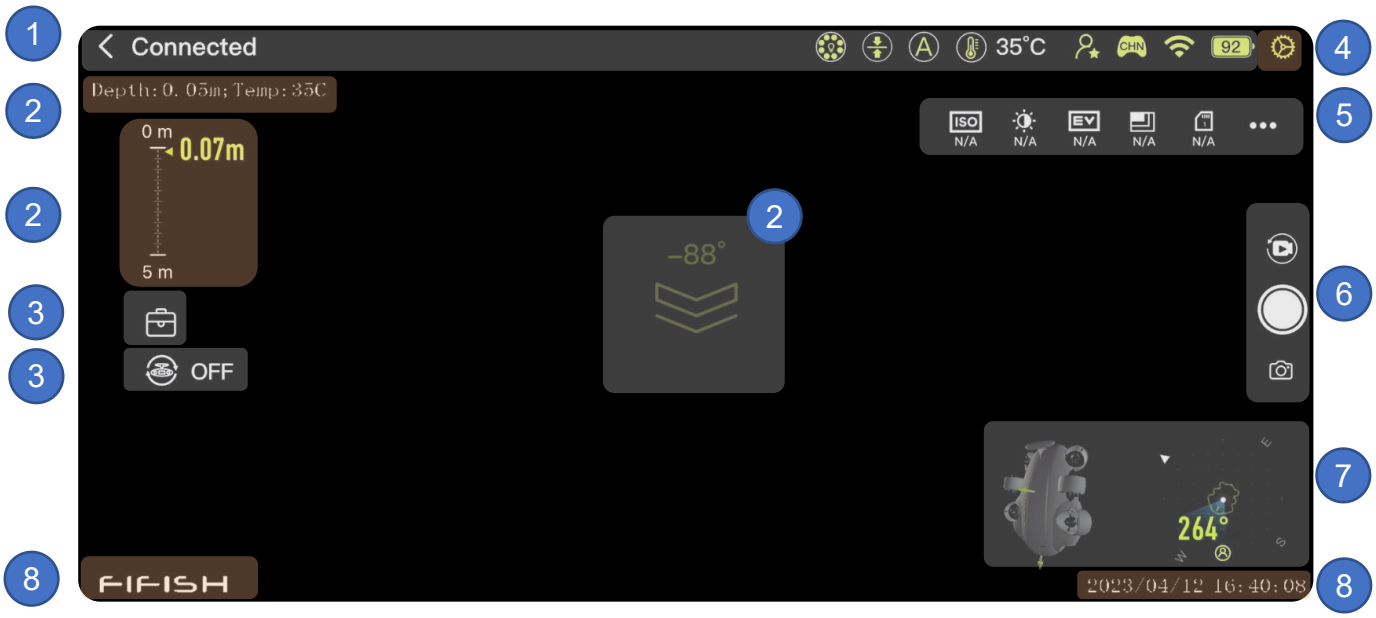






TIPS: **NOT** plug into the tether port

FIFISH App
User Interface

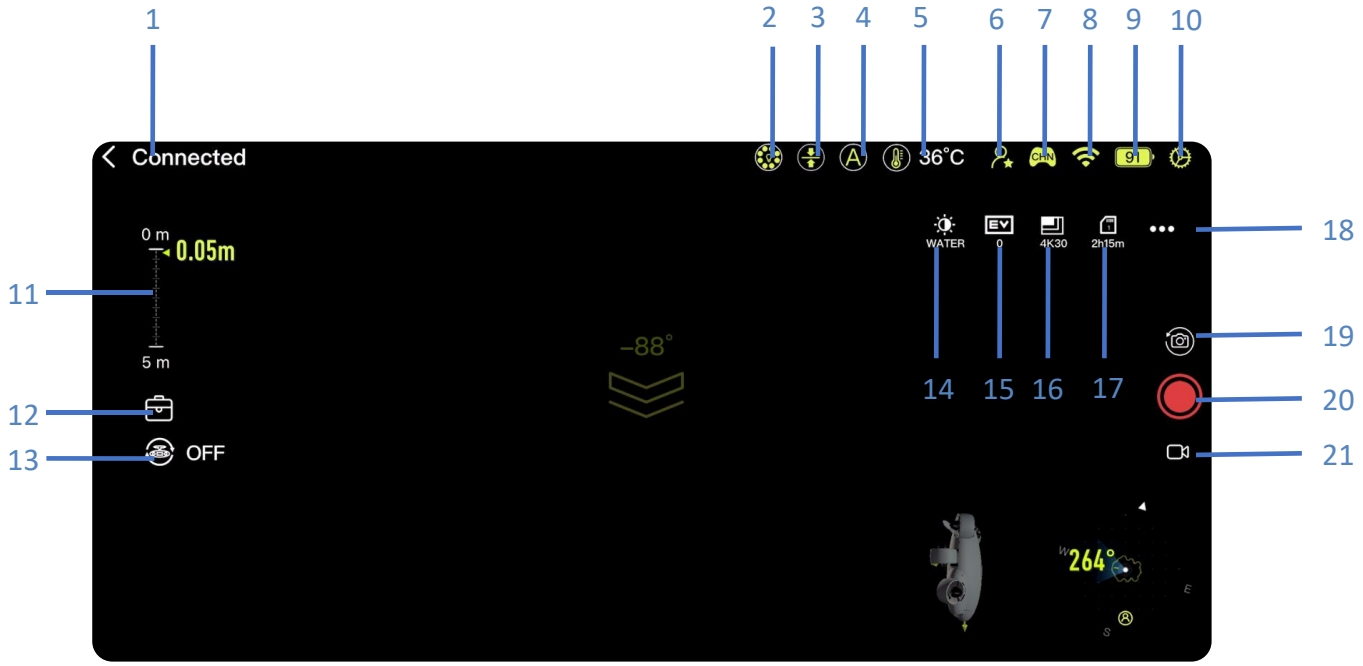


FPV Interface in FIFISH App

1. Status
2. Navigation Information
3. Toolbox & Flip ROV
4. General Settings
5. Image/Video Setting Shortcut
6. Image/Video Button
7. Navigation Chart
8. Watermark

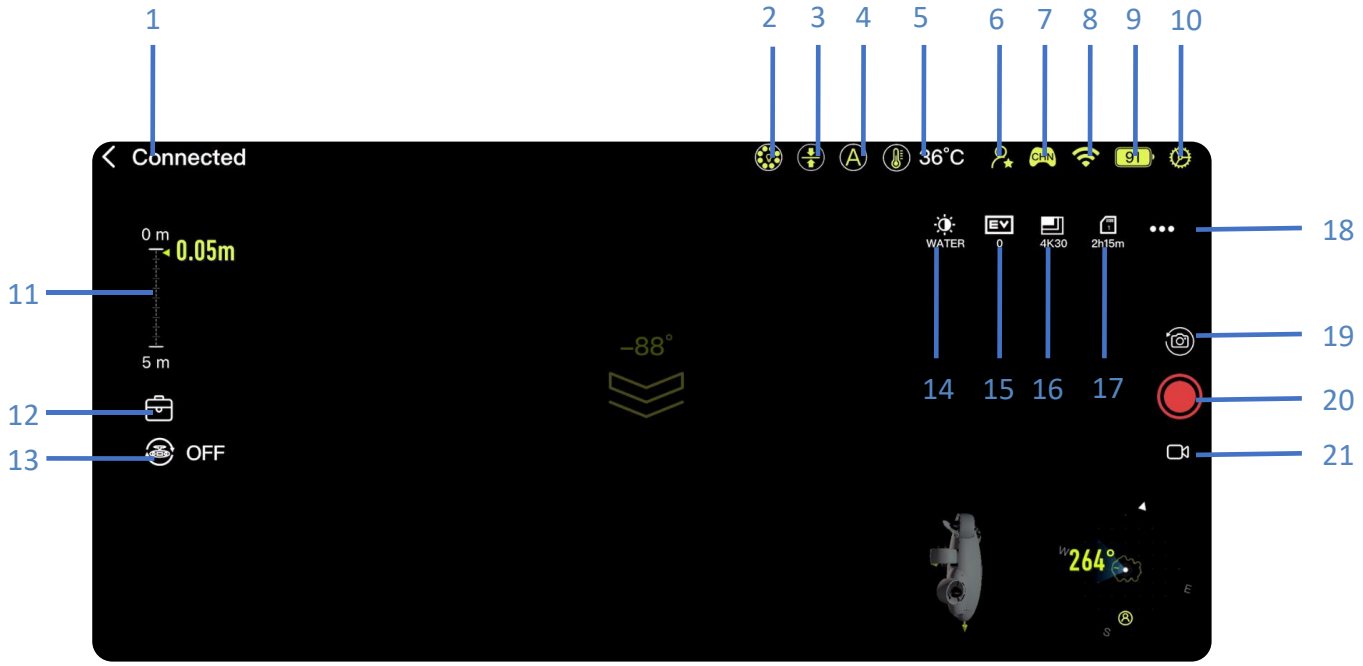
Note:
The FIFISH application interface is iOS version of 4.4.7. To provide a better user experience, QYSEA software team will continuously update FIFISH application. Please contact our technical support team if you encounter any problems.
Email: support@qysea.com

FIFISH App
User Interface

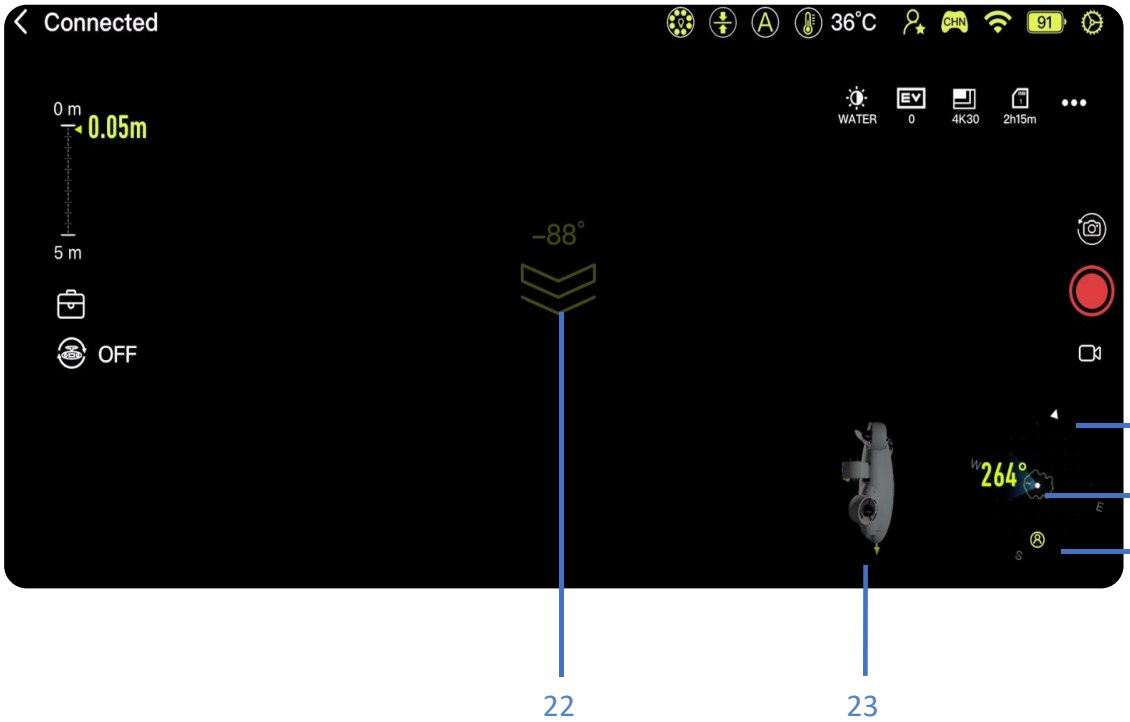


1. **System Status:** Connected and Offline status
2. **LED Status:** Displays the current LED brightness
3. **Depth Holding:** ON/OFF
4. **Control Mode:** Displays the current flight mode
5. **Water Temperature:** Displays the current water temperature in C/F
6. **Pilot or Spector Status:** Displays the current observer player
7. **Controlling Preference:** Displays the current cotrolling preference
8. **RC's Wi-Fi Signal:** Display the remoter controller Wi-Fi status
9. **ROV's Battery:** Displays the current battery level
10. **General Setting:** General settings provide information about system setting,Controlling Preferences, Sensor Calibration and Main Camera Internal Storage.
11. **Depth:** The distance from water surface to depth gauge
12. **Toolbox:** Contains Special Features and Attachment Features
13. **Flip ROV:** Click to flip the ROV automatically

FIFISH App
User Interface



14. **White Balance:** Setting the parameter of WB
15. **Exposure Value:** Setting the exposure value
16. **Resolution Frames Rate:** Setting the number of pixels displayed on a screen
17. **Remaining Time / Pics:** Displays the remaining number of photos or video recoding time on the current micro SDCard
18. **Camera Setting:** Provides more setting of camera
19. **Video / Photo Mode Switch:** Tap to switch the Video and Photo mode
20. **Record / Stop / Snap**
21. **Slow Motion or Normal**



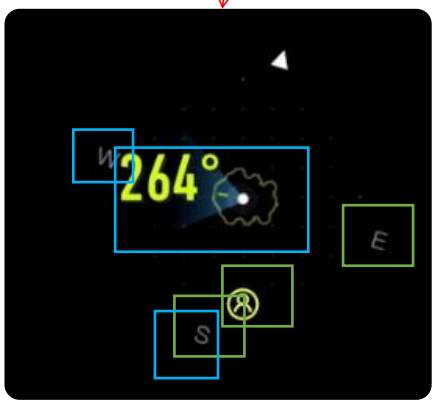
22. **Pitch Angle:** Displays the current pitch angle, Heading down is in a minus digit degree with downward arrow; Heading up is in a positive digit degrees with upward arrow
23. **Posture in 3D Model:** Displays the current ROV posture
24. **Compass:** Match with the smart device, shows the cardinal directions used for geographic orientation
25. **Heading in Degrees:** 0° is North, 90° is East, 180° is South, 270° is West. For Example, 264° is facing South West
26. **Pilot's Facing Direction:** The icon showing on the compass. For Example, the pilot is South East



Pilot's Facing Direction & ROV's Heading:

1. As shown in green, the pilot icon is located between South and East, so the pilot's orientation is East of South.

2. As shown in blue, the heading degree of the submersible is 264° , which lies between the Southand the West, so the submersible faces 84° West of the North.



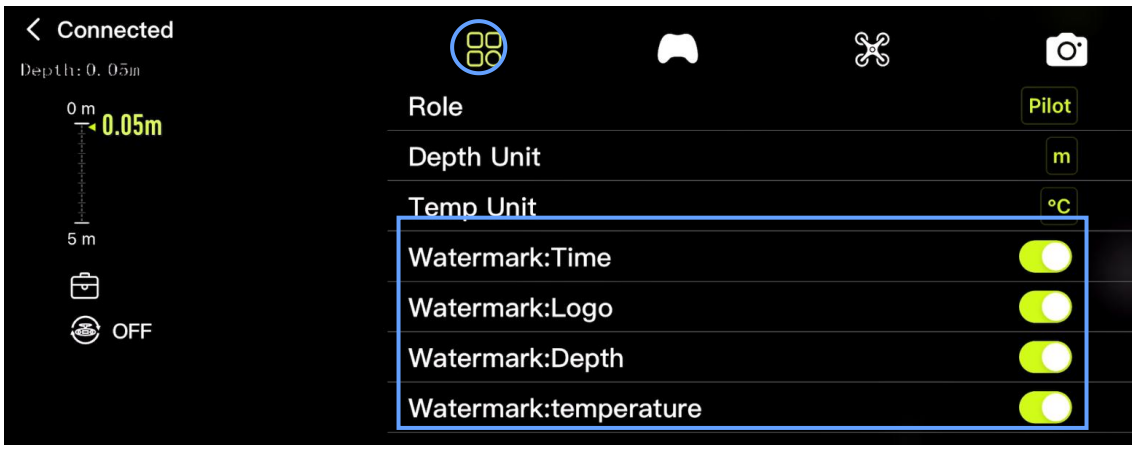
NOTE:

1. It can not be recognized the relative position directly by the controller's orientation and the heading degree of the submersible.

2. The most intuitive way to judge the position of the submersible relative to the operator is to float the submersible to the surface or visually observe the position of the submersible along the tether direction.

FIFISH App
System Setting

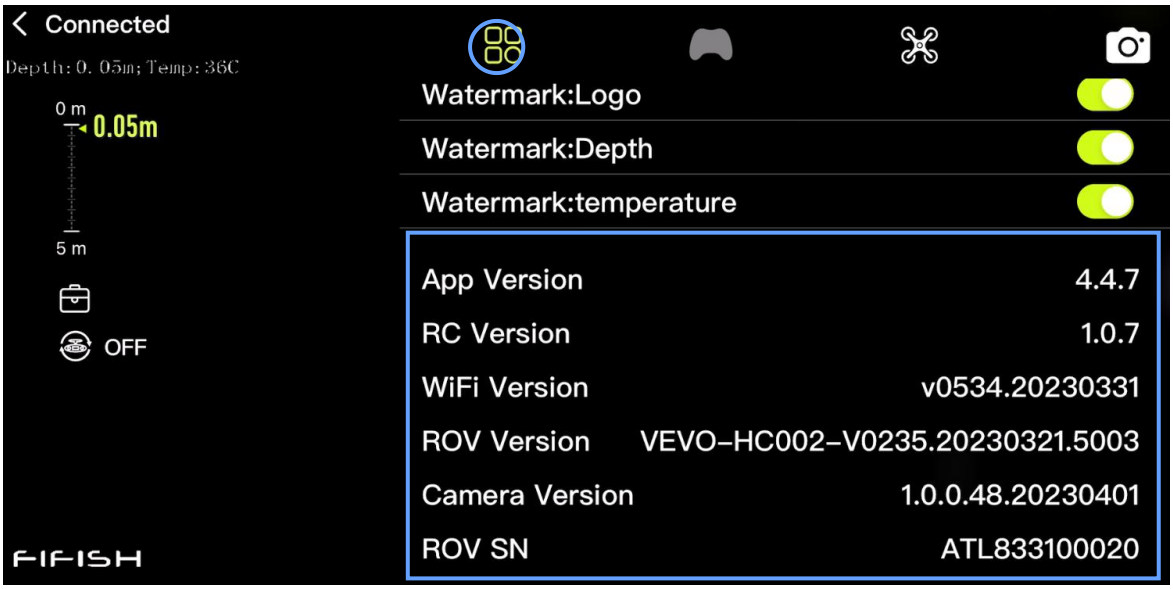
General Settings, Select **System Setting Icon** in 1st column



- If you have 2 devices connect to the RC, role are including **Pilot** and **Spectator**
- ONLY the "**Pilot**" can manipulate the settings, such as, watermarks, control preferences, camera settings etc.
- The "**Watermark**" ON will record to video or write on photo, "Watermark" OFF then no trace on video or photo
- Watermark in Time, FIFISH Logo, ROV Depth, Water Temperature

FIFISH App
System Setting

Scroll down the system setting, the system version information will show up



- The App Version is the FIFISH App version in your cell or tablet
- The RC Version is the RC's motherboard version
- WiFi Version is the RC's Wi-Fi module version
- ROV Version is the ROV's current software version
- Camera Version is the camera module software version
- ROV SN is the identical SN for this ROV

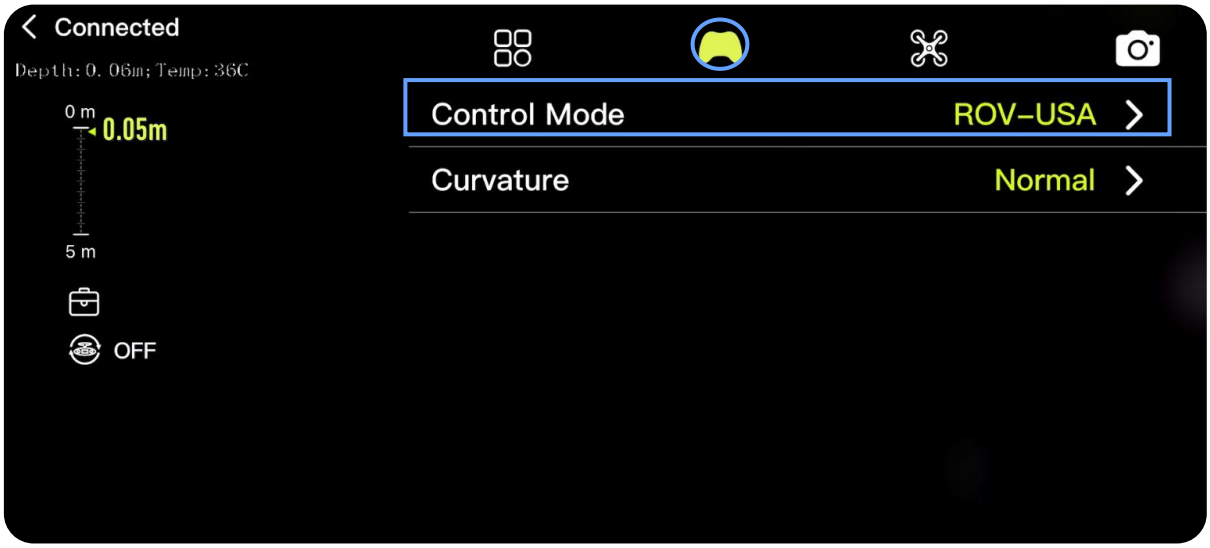
NOTE:

Screen shot of these versions for remote technical support when you are facing any issues.

FIFISH App
Control Setting

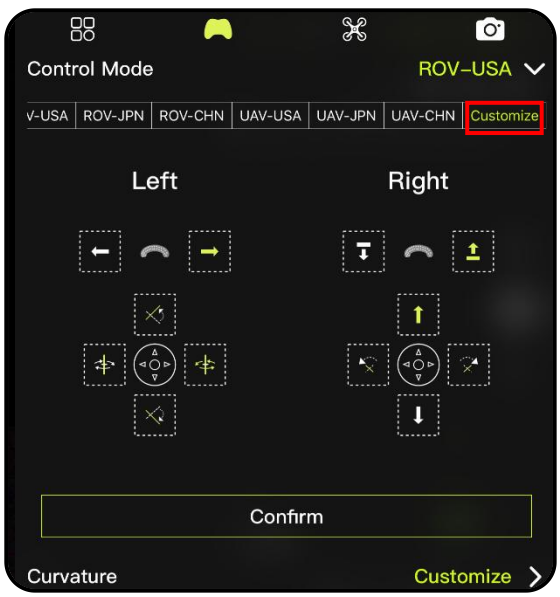
Controlling Preferences

General Settings, Select **Controlling Preferences Icon**  in 2nd column



- Click "**Control Mode**", the default is ROV-USA Control Mode, you can select your preferences if you like
- Click "**Confirm**", after setting



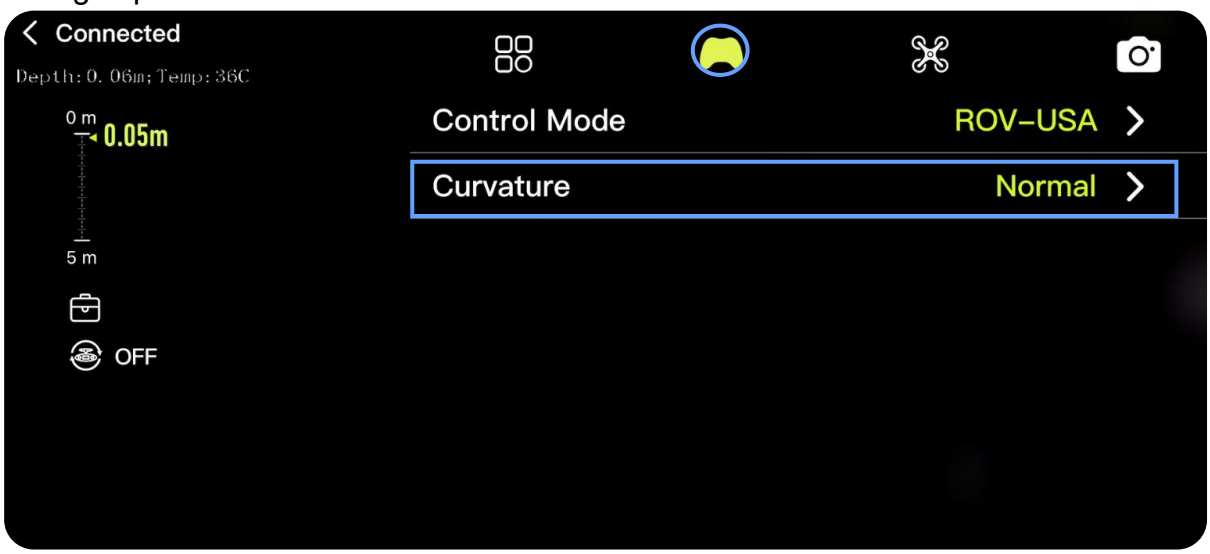


***As for advance level pilot seek for customized setting demo. Please check FIFISH authorized local Dealer or Service Center for more details and training programs.*

FIFISH App
Control Setting

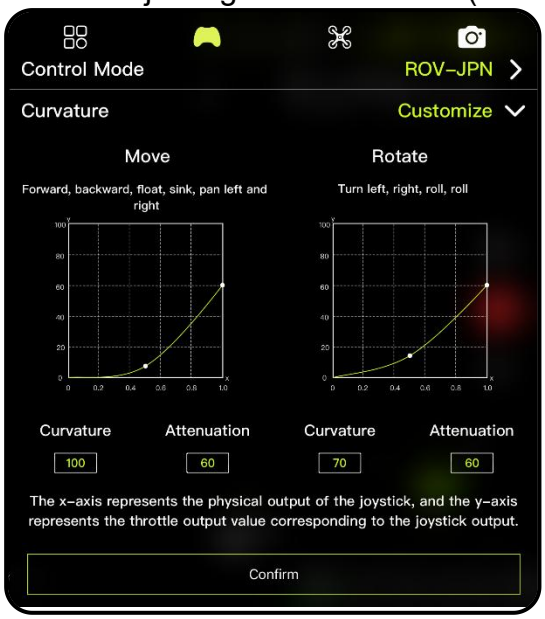
Control Curvature

For the advance level pilot, the curvature setting can provide more **Accurate** and **Smooth** operating experiences.



Set the Move & Rotate

- Adjusting the curvature (set the center sector output sensitivity)
- Adjusting the attenuation (set the maximum output)

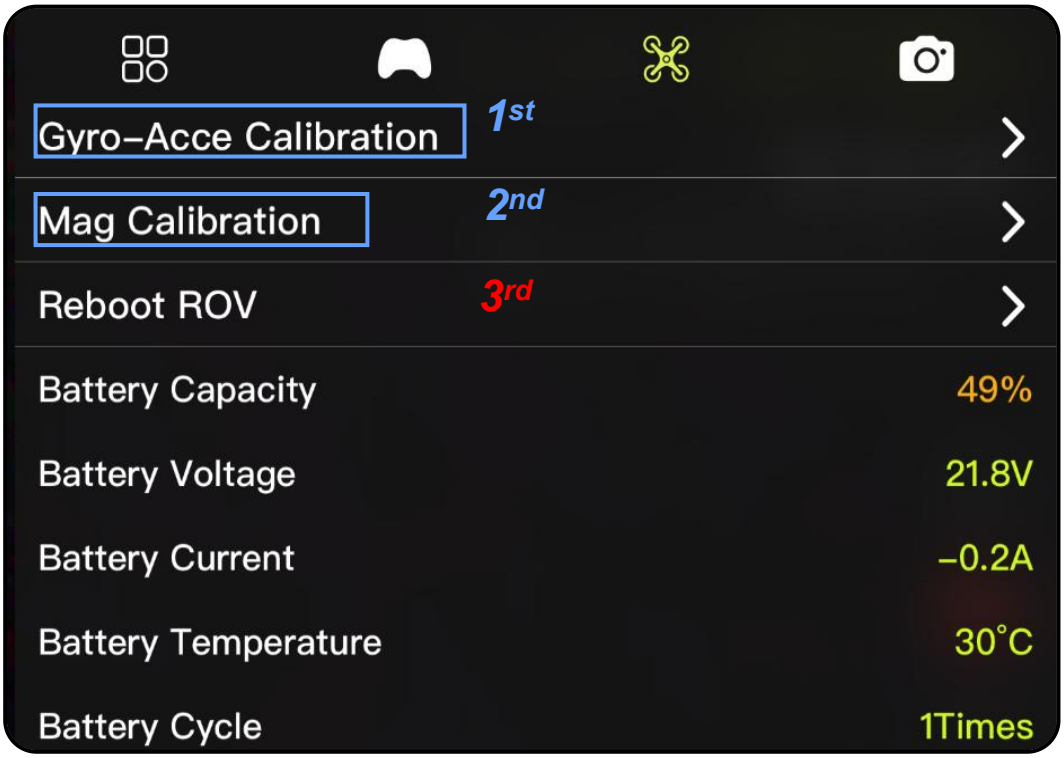


***As for advance level pilot seek for explore curvature setting tips. Please check FIFISH authorized local Dealer or Service Center for more details and training programs.*

FIFISH App
Sensor Calibration

Sensor Calibration

Select the **Sensor Icon** in 3rd column



- Follow the hit on FIFISH App step by step, first **Gyro-Acce** then **Mag**
- **Reboot ROV** in FIFISH App, and Power ON/OFF RC if necessary

For the calibration tutorial, please refer to the video "Control instruction":
'FIFISH APP - Help - College - V-EVO

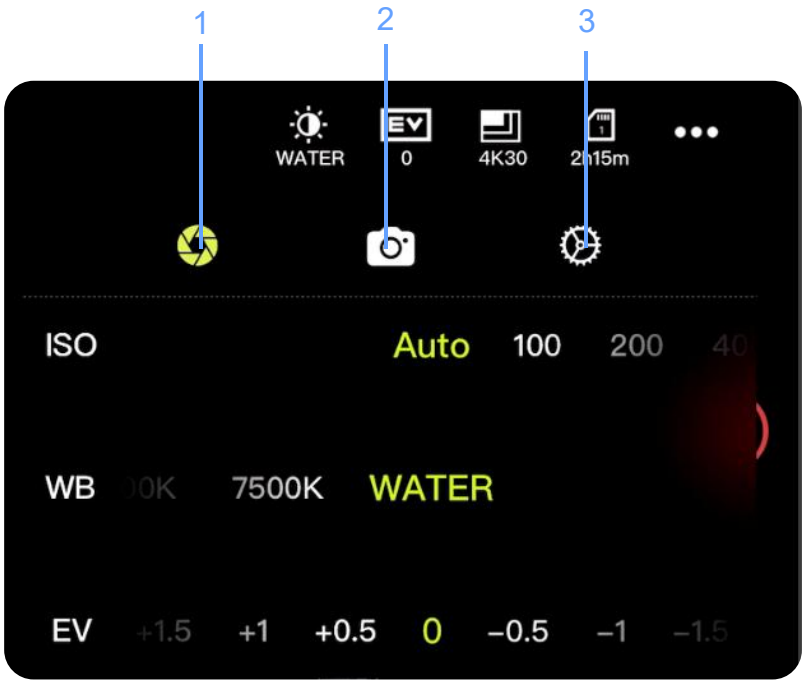
FIFISH App
Storage

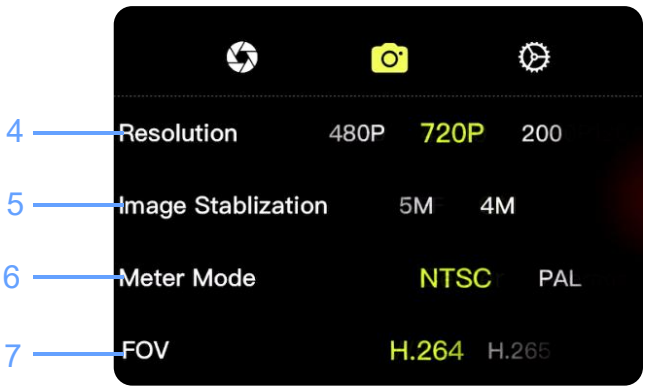
The **Main Camera Internal Storage** is ROV's main camera internal memory status.



- Click "**Main camera internal storage format**" will erase the internal memory of main camera
- Click "**restore factory settings**" will reset to default camera settings

FIFISH App
Camera Setting





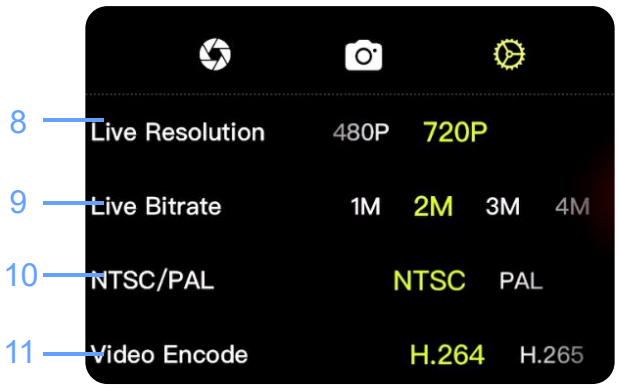


Image Settings

1. Exposure and WB
2. Video Setting
3. Camera General Setting
4. Resolution
5. Image Stabilization
6. Light Meter Mode
7. FOV Settings

Camera General Setting

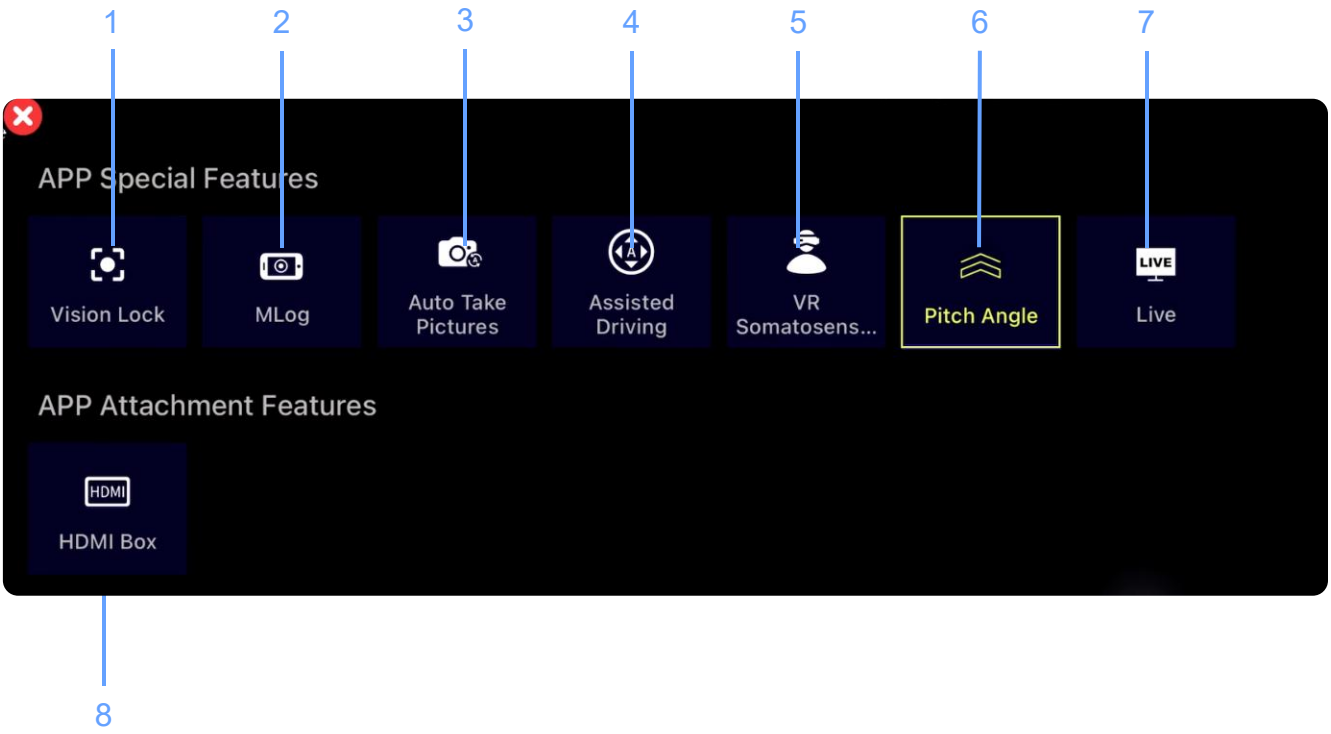
8. Live Resolution on FPV
9. Live Bitrate on FPV
10. Color Encoding
11. Video Format

NOTE:

Shortcut camera setting will have the same results.

FIFISH App

ToolBox



Special Features：

1. Vision Lock
2. Mission Log (M-Log)
3. Auto Take Pictures
4. Assisted Driving
5. VR Control
6. Pitch Angle ON/OFF
7. Live Steaming

Attatchment Features：

10. HDMI Box

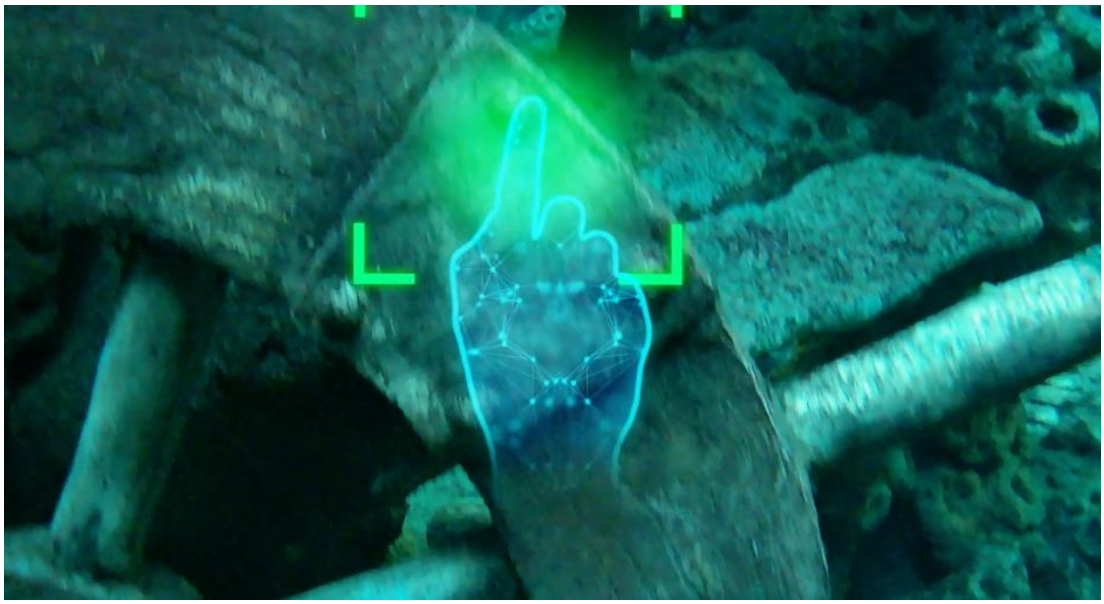
Note:
The accessory function (except topographic map) can only be enabled with a specific accessory. Please refer to the user manual of the corresponding accessory for detailed operation.

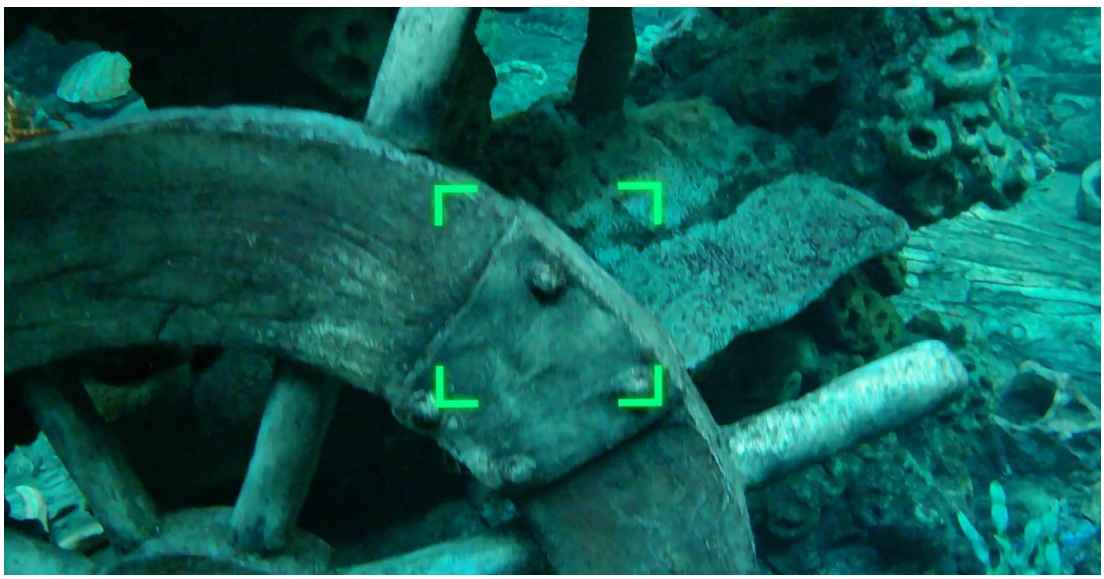
Vision Lock

Lock the positions of objects at focus

Click Icon  to active vision lock

1. Click the position on the screen, and the submersible will move and adjust the clicked area to the centre of the field of vision





NOTE:

It is not recommended to use this Vision Lock in an unfamiliar environment

Vision Lock

Lock the positions of objects at focus

Click Icon  to active vision lock

2. Touch the screen for seconds with your finger and drag it in the (up/down/left/right) direction, which can realize the dragging of the visual field in the screen.





NOTE:

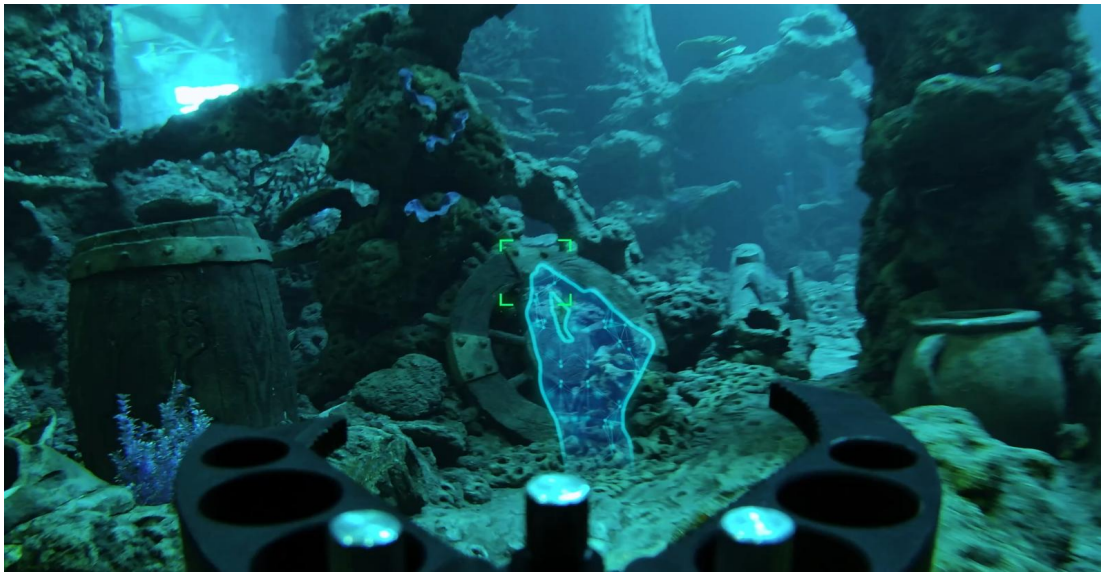
It is not recommended to use this Vision Lock in an unfamiliar environment

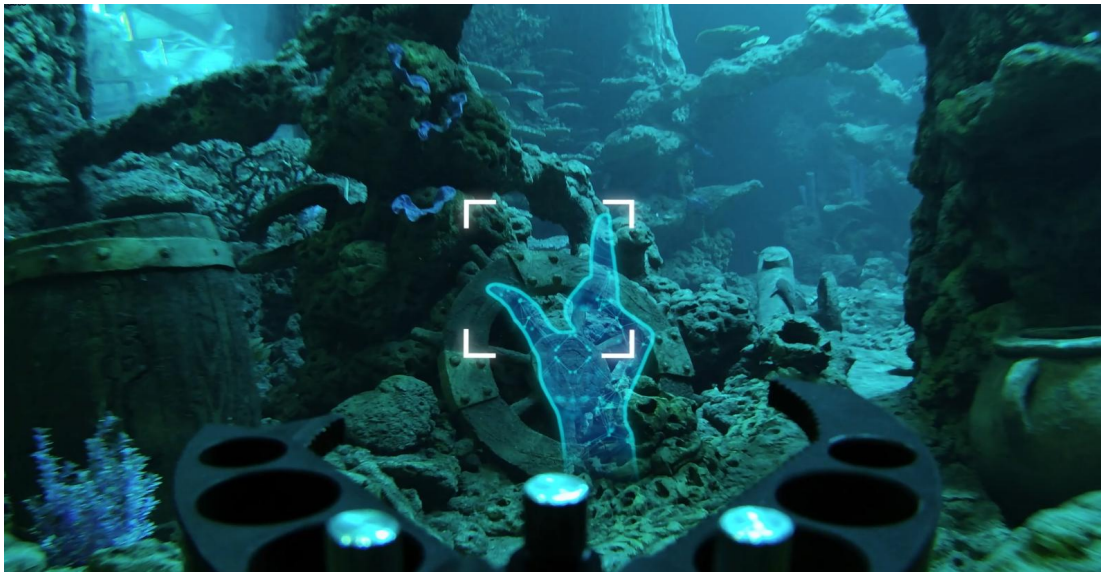
Vision Lock

Lock the positions of objects at focus

Click Icon  to active vision lock

3. Two fingers press the screen for seconds, and when you open/clamp your fingers to make a zoom-in/zoom-out gesture, you can zoom in/out the current picture of the camera's field of vision





NOTE:

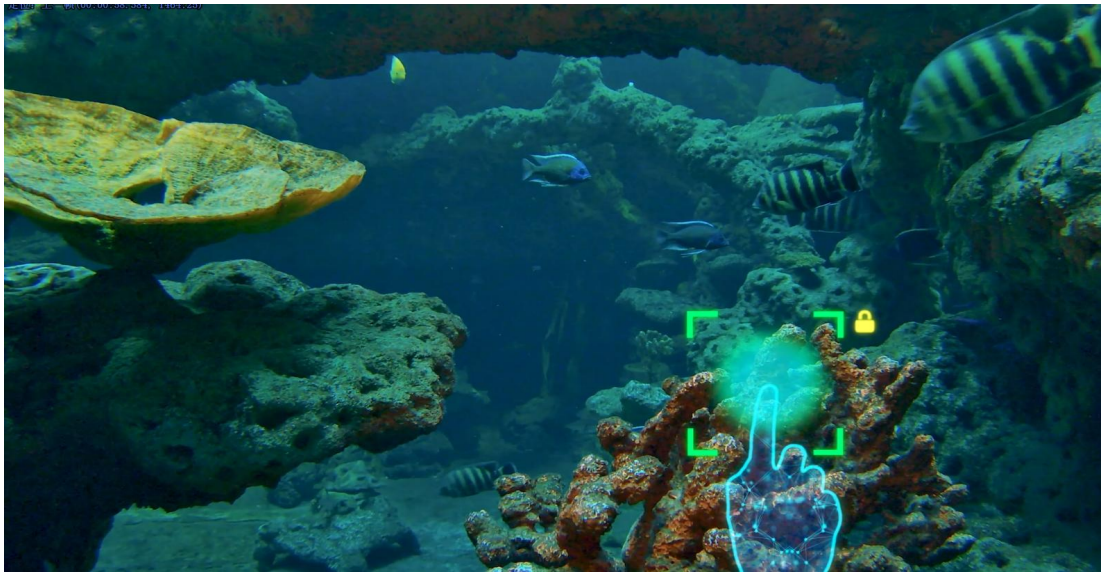
It is not recommended to use this Vision Lock in an unfamiliar environment

Vision Lock

Lock the positions of objects at focus

Click Icon to active vision lock

4. Touch the target area for seconds to lock the area/static object in a fixed position on the screen, so that the field of vision can be fixed at the current position without refocusing on other moving objects.





NOTE:

It is not recommended to use this Vision Lock in an unfamiliar environment

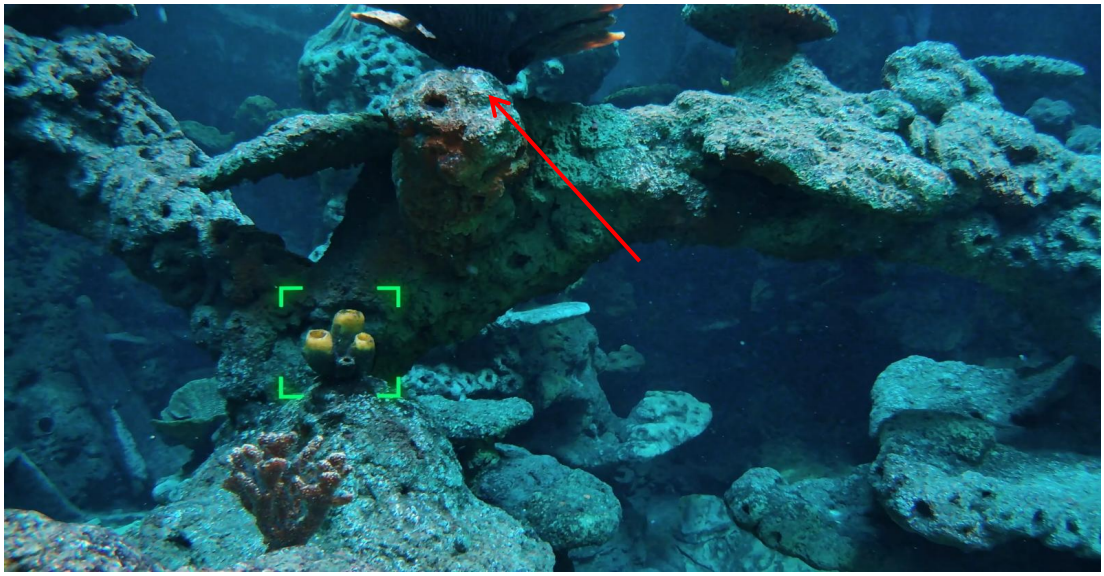
Vision Lock

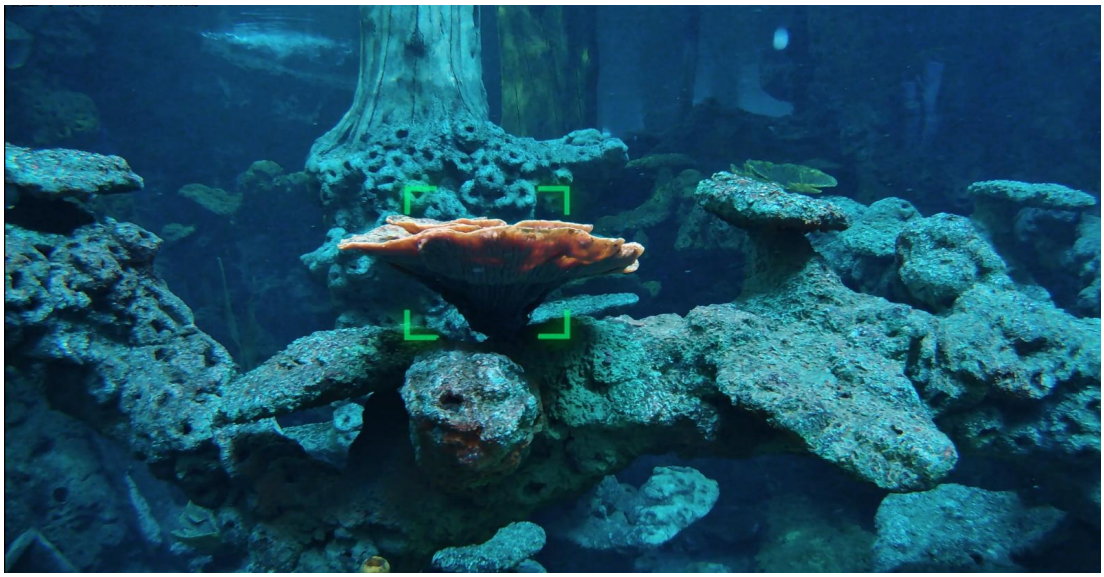
Lock the positions of objects at focus

Click Icon to active vision lock

5. Active the icon A to use dynamic lock

When controlling the submersible moves (forward/backwards, left/right lateral, ascend/descend), the algorithm will recognize the object again and refocus it.





NOTE:

It is not recommended to use this Vision Lock in an unfamiliar environment

Vision Lock

Lock the positions of objects at focus

Click Icon  to active vision lock

How do relize the Surround shooting?

Move the certain stick to perform turning left/right or pitching up/down.

Taking the ROV-USA mode, for example, push the Left stick on RC in a single direction.

(Note: Keep the focused object on the screen)

The reason fail to perform:

1. The target is moved out of the view of the ROV

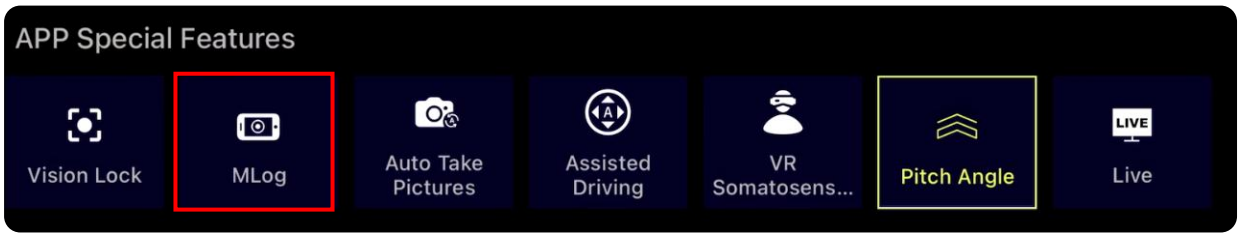
2. Move the driving stick/rod the perform moving forward/ backward/ left/ right/ rising/ dropping, which enable the ROV to unlock the object.

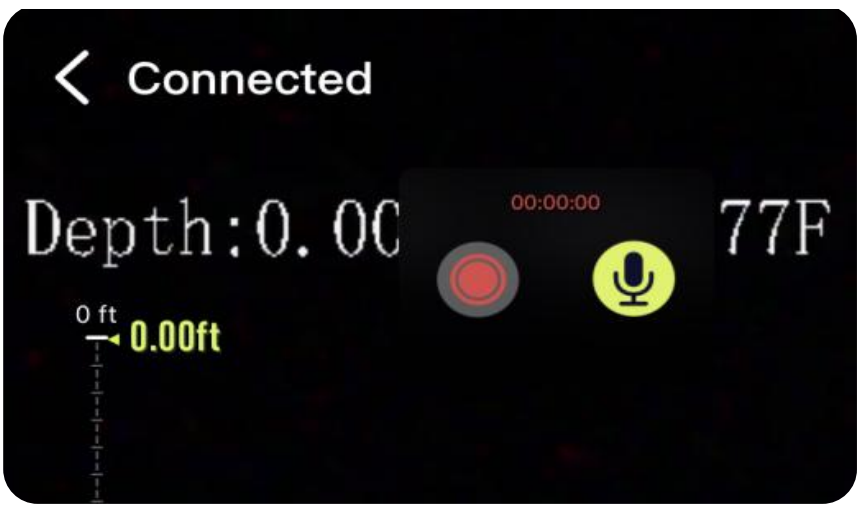


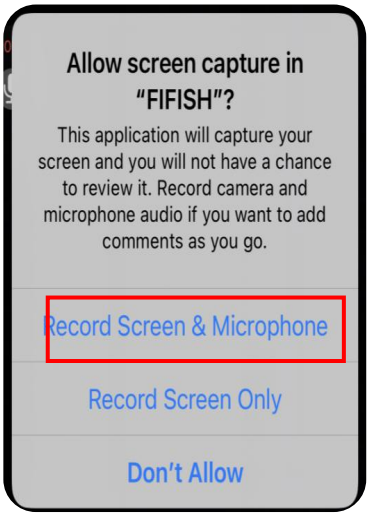
Mission Log(M-Log)

Record the screen and voice

1. Click to Icon  to open M-Log
2. The M-Log screen recording button and voice recording button will be displayed
3. Click “Record Screen & Microphone” to allow screen capture
4. Press video recoding button to start
5. Optional recorded quality: High/Medium/Low







NOTE:

1. Record files are directly stored in the smart devices. Please check storage of smart devices.

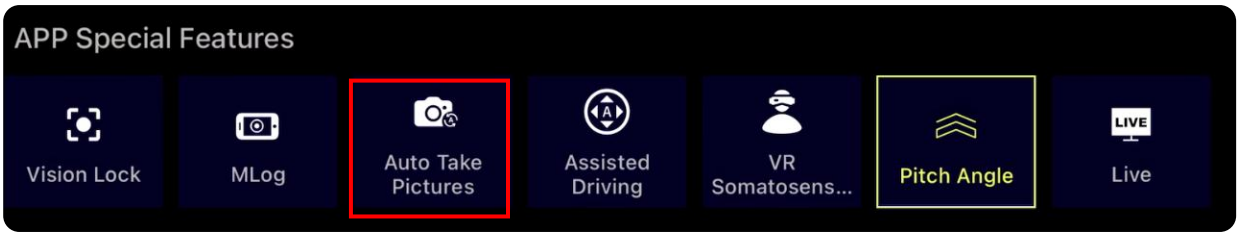
2. NOT place FIFISH APP to the background during recording, otherwise the recording will be stopped, and the recorded files will be saved in the smart device album and local media library in APP

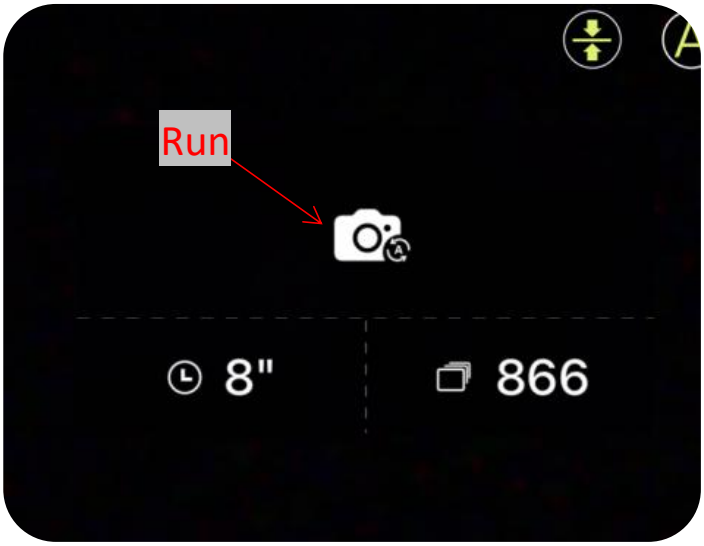
3. The microphone is turned off by default.

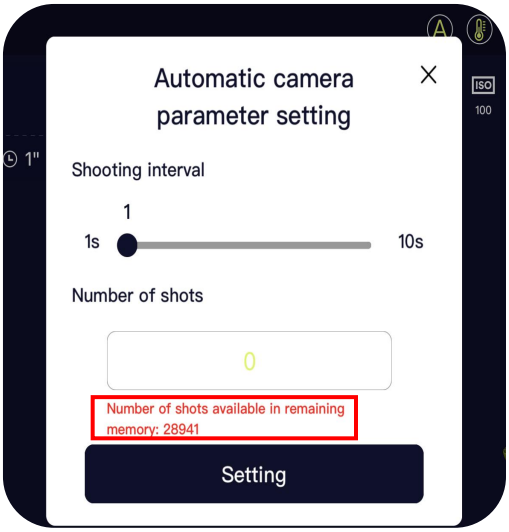
Auto Take Pictures

Take a preset number of photos with preset time interval

1. Click the auto take pictures icon
2. Click the time interval icon or photo number to open setting interface
3. The number of photos that can be stored in the memory card is displayed below.
4. After setting the parameters, click the Auto Photo icon  to run the function.





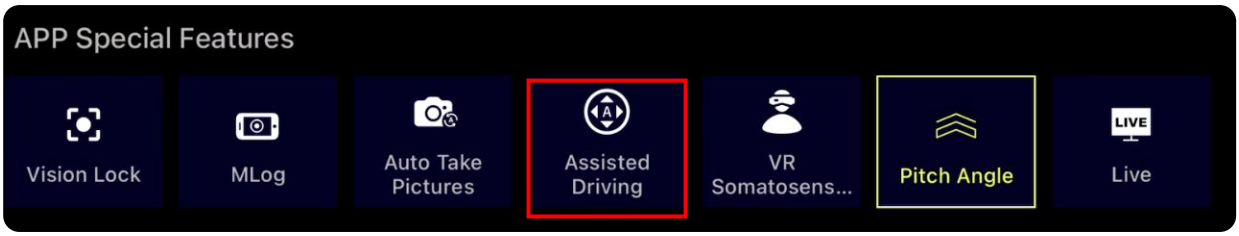


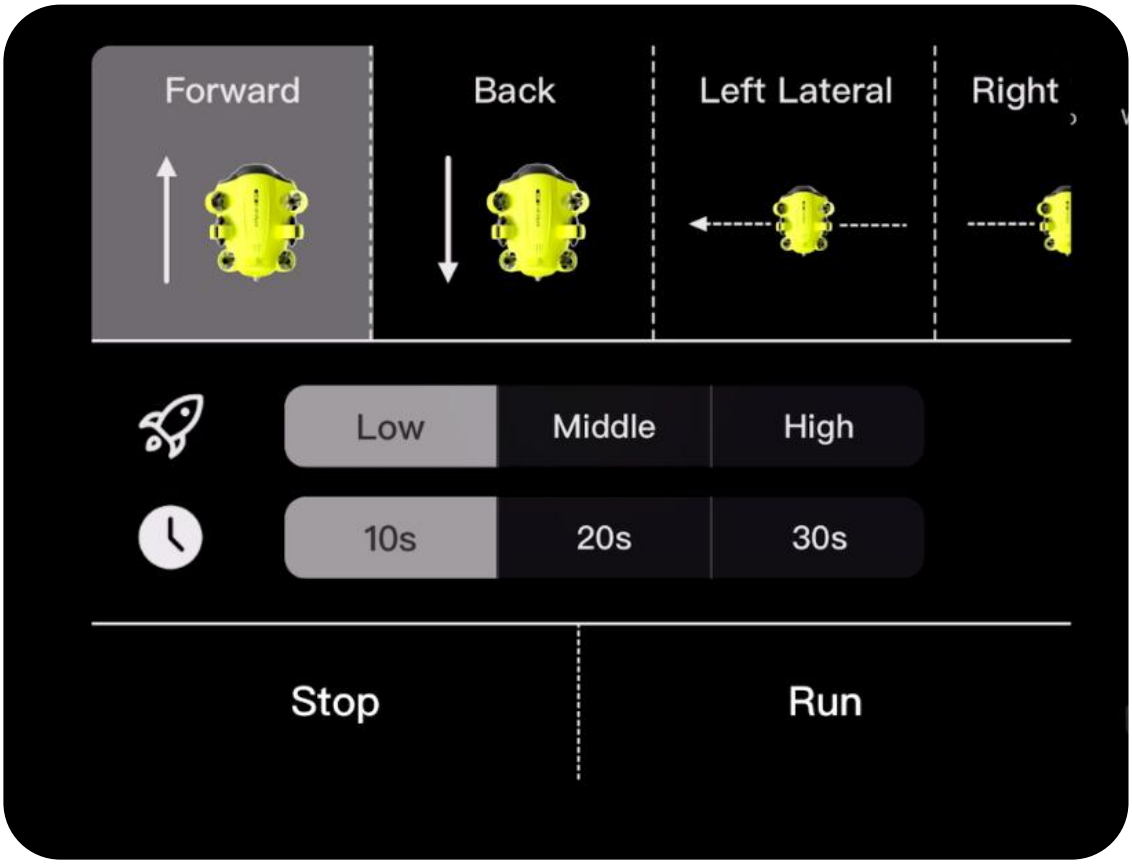
FIFISH App
Toolbox, Assisted Driving

Assisted Driving

Drive automatically with preset performance, speed and running time

1. Press the Icon
2. Select moving behavior
3. Set speed/time
4. Click "Run" to activate Assisted Driving

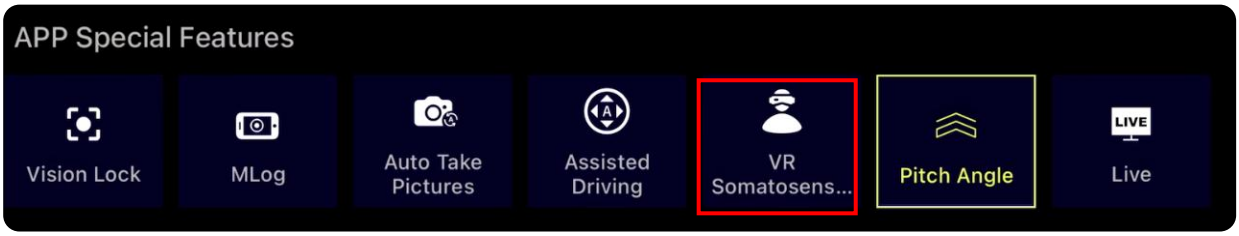


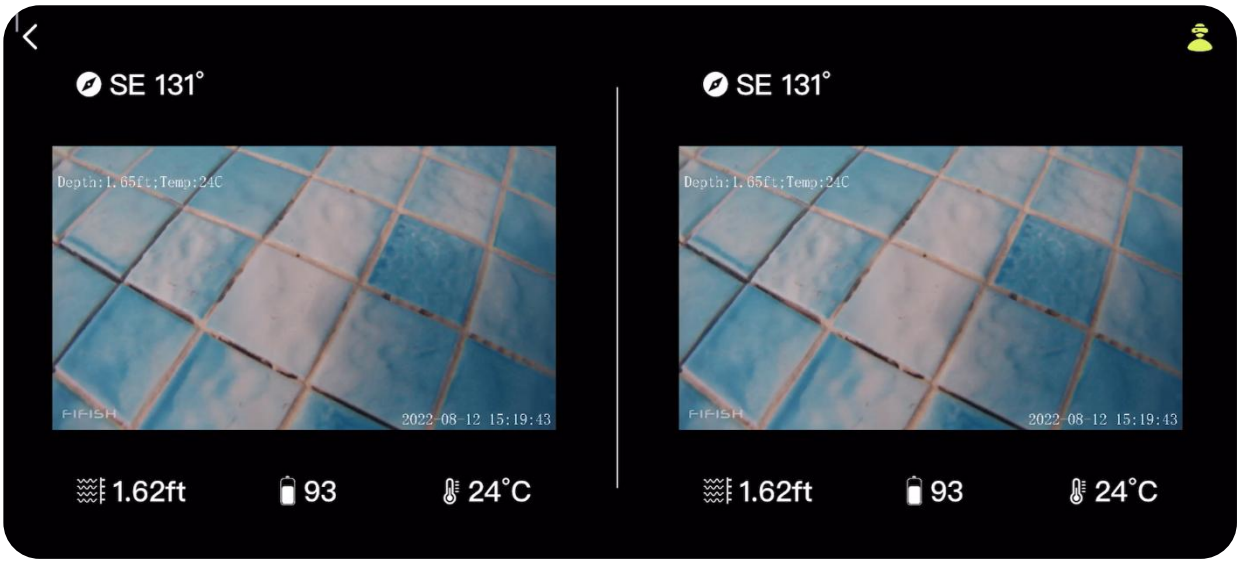


VR control

Somatosensory control through VR goggle

1. Click the VR icon in the tool box
2. Install the device to the VR bracket
3. Wear the VR goggle
4. Adjust the view by moving the sliders
5. Turn remote control to mode C





VR control

Somatosensory control through VR goggle

1. Click the VR icon in the tool box
2. Install the device to the VR bracket
3. Wear the VR goggle
4. Adjust the view by moving the sliders
5. Turn remote control to mode C









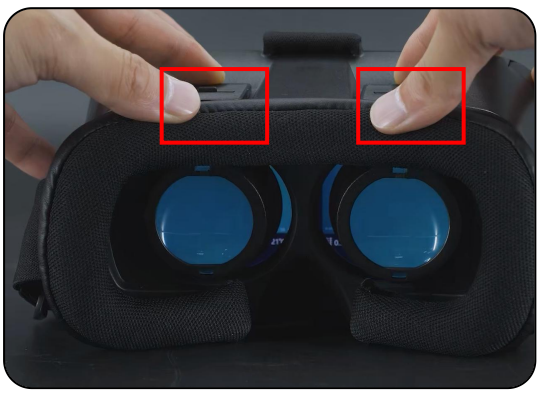
Note: To ensure a better experience, please align the white line on the screen with the groove on the bracket.

VR control

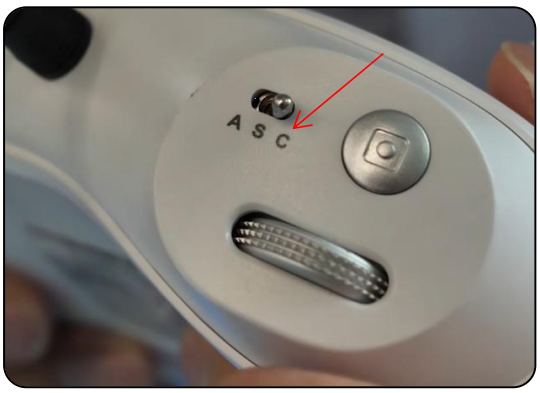
Somatosensory control through VR goggle

1. Click the VR icon in the tool box
2. Install the device to the VR bracket
3. Wear the VR goggle
4. Adjust the view by moving the sliders
5. Turn remote control to mode C





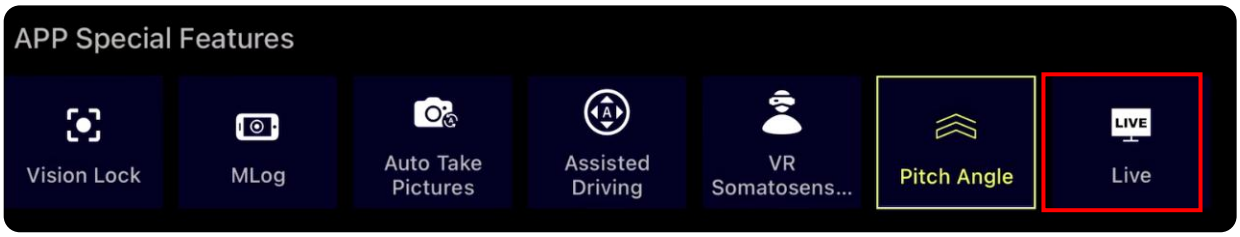


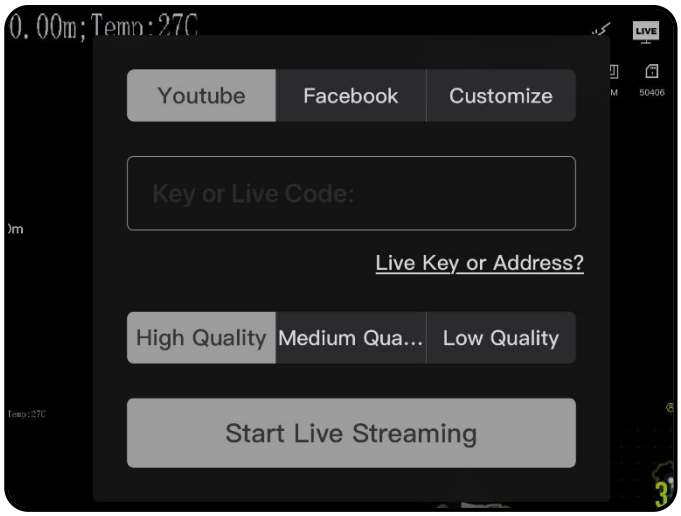




LIVE Streaming

*Board casting directly on **YouTube, Facebook** or other social media network.*[1]





1. Generate a **Stream Key** and **Stream URL** on YouTube or Facebook
2. Click the **LIVE** icon 
3. Paste the **Stream URL** and **Stream Key** in column
4. Select the LIVE quality (High, Medium, and Low) [2, 3]
5. Click "**Start Live Streaming**"

NOTE:

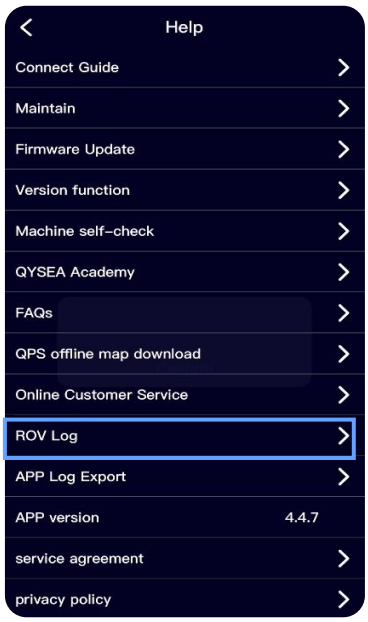
1. This feature will request to use the **iOS devices**. For example, **iPhone** or **iPad** SIM card version.
2. LIVE stream feature will consume your **Cellular Data**, make sure you have enough Cellular Data in your data plan.
3. LIVE stream quality is depending on the local **4G or 5G network speed**.

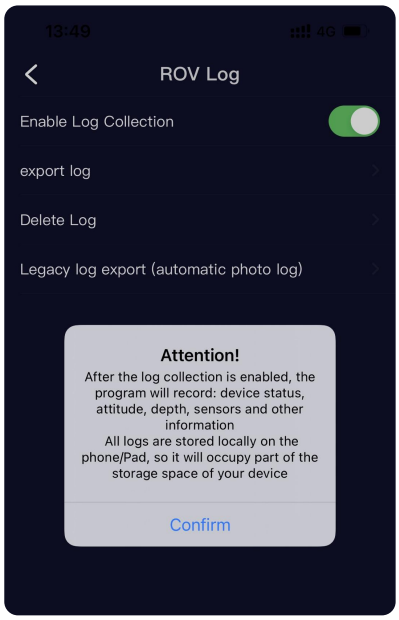
ROV Log

The navigation information can be recorded and output as a document

1. Return the main homepage and click Help in the lower right corner
2. Select ROV Log
3. Turn ON the Log Collection
4. Click 'Connect' and control the ROV to collect data
5. Export log







Note:

- The data only be collected after turning on the Log collection
- Data would start to be collected after clicking 'Connect' whether the ROV is in the water or not
- The collecting frequency of navigation data is twice per second
- Only the collecting frequency of QPS data is once per second

ROV Log

The navigation information can be recorded and output as a document

1. Return the homepage and click Help in the lower right corner
2. Select ROV Log
3. Turn ON the Log Collection
4. Click 'Connect' and control the ROV to collect data
5. Export log



1. Log scene:
'All' - Output all data collected twice per second
'photo' - Output the related data to photos which took present

2. Export format:
'JSON' - A standard text-based format for representing structured data based on JavaScript object syntax. which can be converted to excel format.
'GPX' - An XML file format for storing coordinate data. (required to equip U-QPS to collect)

3. Export content:
'depth' - The corresponding dive depth
'euler' - Posture data including pitch angle, roll angle and yaw angle
'water quality' - Water quality data including dissolved oxygen, turbidity, salinity and pH (required to equip related sensor to collect)
'gps' - Coordinate data including longitude and latitude(required to equip U-QPS to collect)
'sonar' - Frontal sonar and Downward sonar data (required to equip Altimeter and Distance meter module to collect)

Appendix
Maintenance

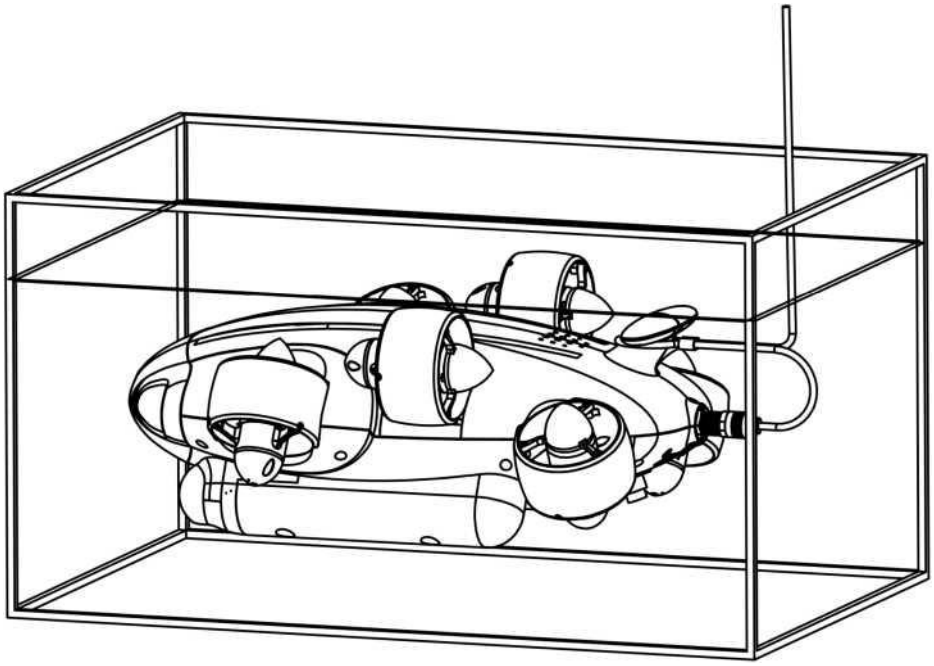
Motors Maintenance (After Every Dive)

(1) Connect the RC to V-EVO and open the FIFISH App (see Hardware Connection section, in Quick Start Guide).

(2) Make sure every motor is immersed inside fresh water, see the picture (vertical soaking in bucket will have same results).

(3) Open FIFISH App, homepage, Click "Help" on the bottom right corner. Click "Maintain/Thrusters", then press "Start". All motors will rotate slowly.

(4) In about 10 mins this cleaning program will stop.
Air dry V-EVO in the cool place and avoid direct sunlight.



Battery Maintenance

(1) Keep 50% to 60% battery level before long term storage.

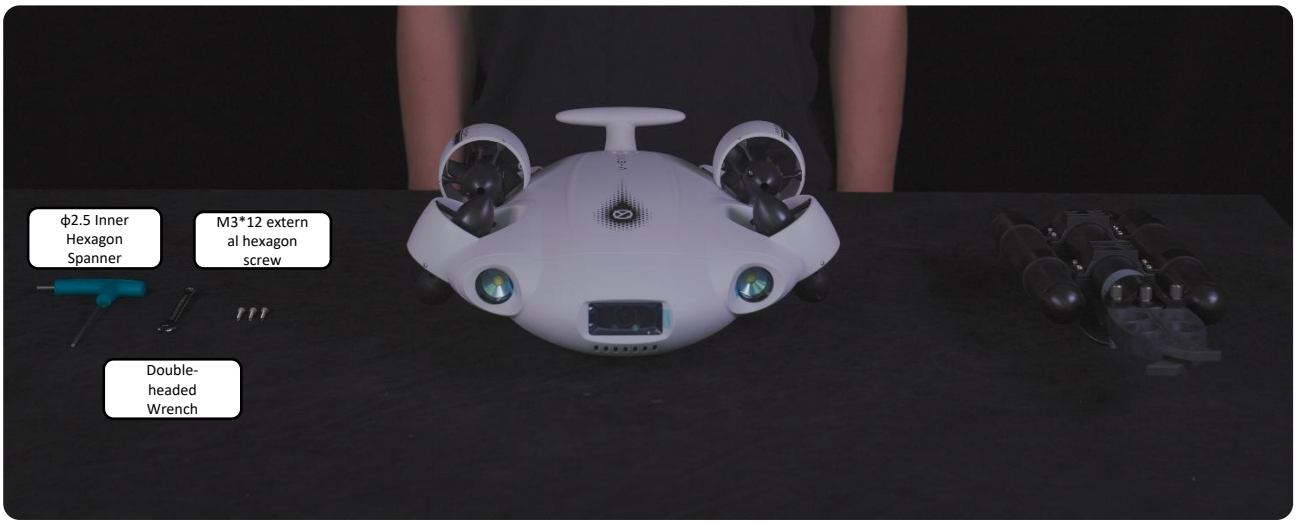
(2) Charge to full once every 90 days.

Appendix

Install Robotic Arm (Optional)

3.1.Hardware connection-manipulator installation [1]

Preparation



3.1.1. Use φ2.5 spanner to remove M3 screws and keep them properly.





3.1.2. To remove the protective cap, position the M2.5 wrench head into the designated hole and rotate to release



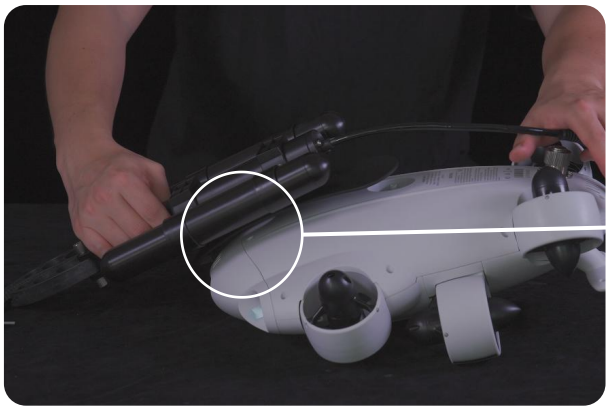


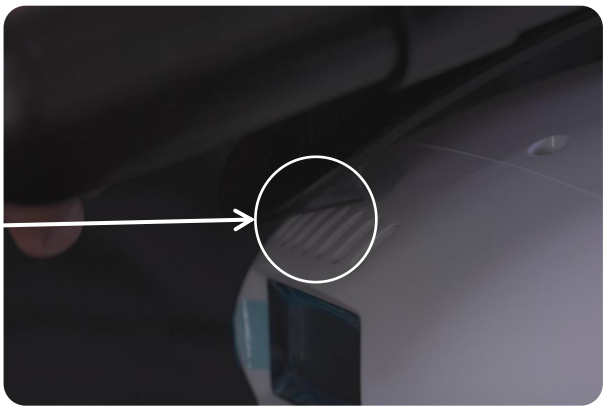
CAUTION：

[1] Please perform this installation with the power off

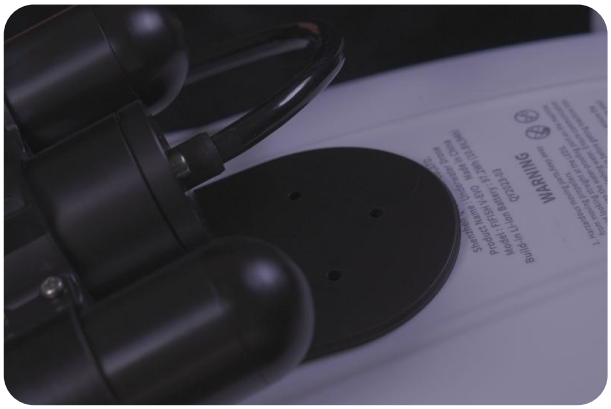
Appendix
Install Robotic Arm (Optional)

3.1.3. Insert the front hook of bracket into the venting hole





3.1.4. Use the dual end wrench to tightly secure the external hexagon screws and mount the robotic arm





3.1.5. Remove the protective cap of Q-interface and keep it properly, and then connect the connector to the Q-interface [1]





CAUTION:

[1] Please perform this installation with the power off

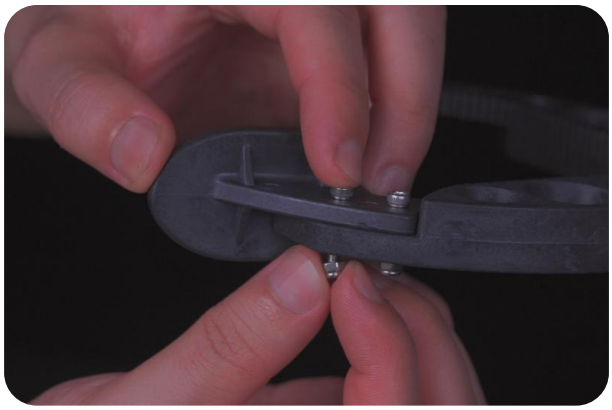
3.1.6. Rotate the dial or press the appropriate button on the control system until the arm reaches the desired position.





3.1.7. Place the gripper onto the robotic arm, and then insert the two M3 hexagon screws, finger tighten the two locknuts





3.1.8. Use a hexagon wrench to secure the locknuts in place, making sure they are tight enough to prevent the gripper from loosening during use, but not so tight that they strip the threads on the screws or damage the gripper or robotic arm.

