## Ø **□**Y5**2**3

### CICISH VE EXPERT



# Quick Start Guide V2.1

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### **Safety and Regulations**



# Operating FIFISH products requires training and practice. Please read through this document before operating in water.



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

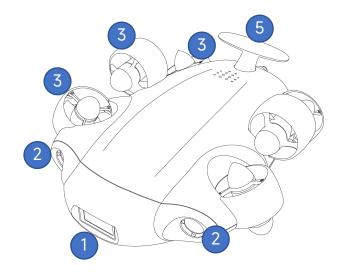


Be part of marine protection and conservation for the local coral and marine life



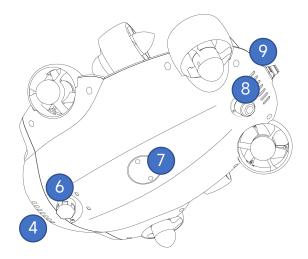
Maintain after dive, check the, Maintenance Guide in page 30-32

### **Definition, ROV**



### FIFISH V6 Expert ROV

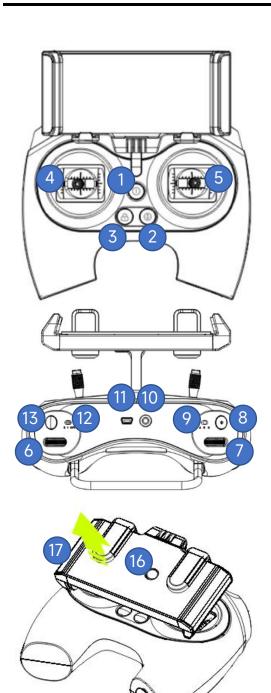
- 1. 4K UHD Underwater Camera
- 2. 3,000 lumens LED × 2
- 3. Vector Thruster × 6
- 4. Venting Holes
- 5. Rear Wing <sup>1</sup>
- 6. MicroSD Card Slot
- 7. Mounting Port
- 8. FIFISH Q-Interface <sup>2</sup>
- 9. ROV Tether Port <sup>3</sup>



### A NOTE:

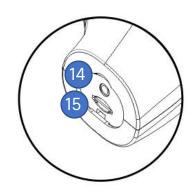
- 1. Do **NOT** shake or swing while holding the rear wing.
- 2. Hook tether's securing loop on the stem of rear wing when connect (See **Preparation and Connection** / Hardware Connection in page 9-11)
- 3. The all ports including FIFISH Q-Interface™ shall be clean and dry at all time.

### **Definition, RC**

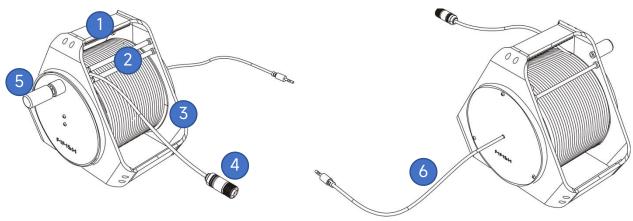


#### **RC (Remote Controller)**

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



### **Definition, Tether Spool**



#### **Spool and Tether**

- Spool Handle 1.
- 2. **Tether Regulator**
- 3. Spool Frame
- Tether ROV Plug 4.
- 5. Foldable Handle
- Tether RC Plug (3.5mm AUX plug) 6.

**NOTE:**Please avoid submerging the tether spool in water. The roller part of the tether spool is not waterproof, and improper handling may result in damage to the reel.

### **Definition, Accessories**









### **Definition, Accessories**





### **Definition, Accessories**



HDMI Box 2.0 Download original resolution videos when recording, LIVE output HDMI signal





**Edge Box**Enable to remote control globally

There are more accessories on the way.

For more information about add-ons or accessories, contact our local authorized dealers for an on-site demonstrations.

### Preparation, Check and App Install

#### **Checking List**

- 1. Gears checking
- 2. Battery is full (ROV, RC, cell/tablet)
- 3. ROV sensor calibration <sup>1</sup>
- 4. Smart device compatibility <sup>2</sup>
- 5. Enough memory for recording/picture
- 6. Team role setting (pilot, tether man, quide)
- 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 (Check ROV Sensor Calibration in page 22)
- 2. The best compatible smart devices list in, in FIFISH App, help/FAQ/Before Dive, #6

#### FIFISH App download and Installations

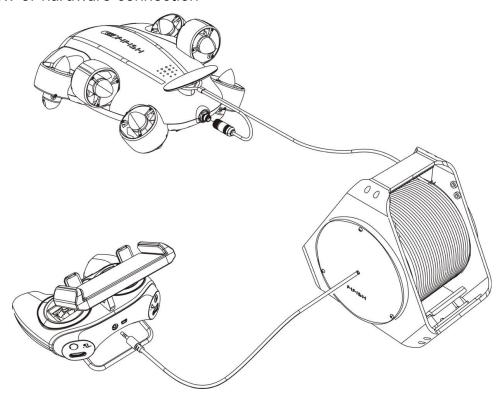


- Option 1. Scan the QR code below to download FIFISH App.
- Option 2. Search the FIFISH on App Store (iOS) or Google Play (Android).
- Option 3. Go to QYSEA's website at https://www.gysea.com/support/app-download/

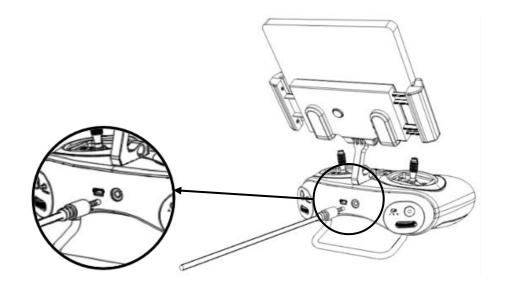
### **Preparation, Set-up, Hardware**

#### 2. Hardware Connection

Overview of hardware connection

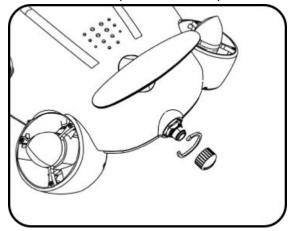


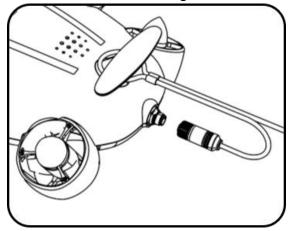
#### 2.1. Plug the tether (3.5 mm head) into remote controller



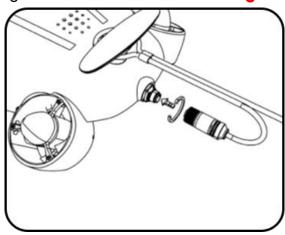
### Preparation, Set-up, Hardware

2.2. Take off the protective cap, tie the knot around the rear wing



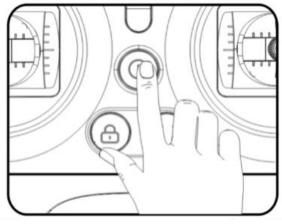


2.3. Plug the ROV Plug into the ROV Tether Port (finger tight)



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

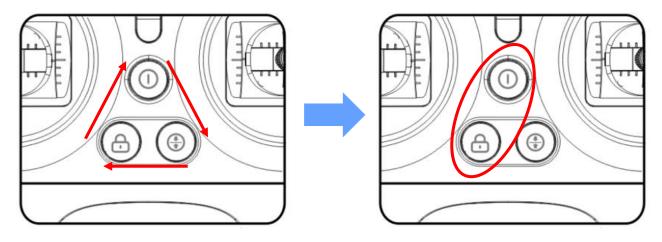
  - RC will play 7 chimes from low to high (Do, Re, Mi, Fa, Sol, La, Ti) ROV will turn on automatically, and play 5 chimes (Do, Re, Mi, Do, Mi)



### Preparation, Set-up, Hardware

2.5. Take off the protect cap, tie the knot around the rear wing
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



### **Preparation, Set-up, Software**

#### 3. Software Connection

- 3.1. Smart device connect with the RC's Wi-Fi (5 GHz)
  - Find the Wi-Fi network name "FIFISHRC\_xxxx"
  - The password is "1234567890"



- 3.2. Open FIFISH App, then press "Go Dive"
  - 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.





The operation interface will be introduced in chapter **FIFISH App**, page 16-17

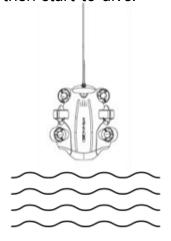
### Preparation, ROV Sensor Cal, Deploy and Retrieve

### **4. ROV Sensor Calibration** (Check the FIFISH App Charter, ROV Sensor Calibration Page 22)

- 4.1. Go to General Setting
- 4.2. Select the ROV Sensor Icon
- 4.3. Follow the hit on FIFISH App step by step, first Gyro-Acce then Mag
- 4.4. Reboot ROV in FIFISH App, and Power ON/OFF RC if necessary

#### 5. Deploy the ROV

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





#### **NOTE**

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

#### 6. Retrieve

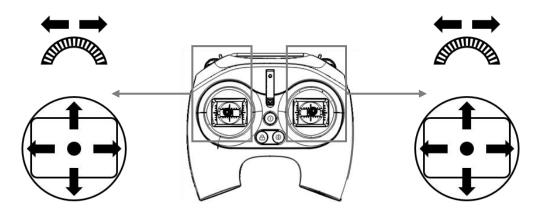
- 6.1. **LOCK** the thrusters
- 6.2. **STOP RECORDING** the video before closing the FIFISH App
- 6.3. **ONLY PULLING** on the tether to retrieve the ROV

### **Controlling, Definition**

#### **Definition of Controlling**

The FIFISH PRO V6 Expert uses the patented **Smart Thruster Array**™ to ensure the ultimate maneuverability and delivers the 6 DOF (degree of freedom).

- V6 Expert can move in descend & ascend, left and right, forward and backward.
- V6 Expert can rotate in 360 yaw (z-axis), 360 pitch (y-axis), 360 roll (x-axis). We have simplified the Left Joystick, Right Joystick, 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.



Remote Controller	V6 Operation Preference Setting		
Remote Controller	ROV Modes (USA/JPN/CHN) UAV Modes (USA/JPN/C		
	Ascend	Pitch Up  Pitch Down	
	Left ← Pright	Roll Counter Clockwise <sup>1</sup> Clockwise <sup>1</sup>	



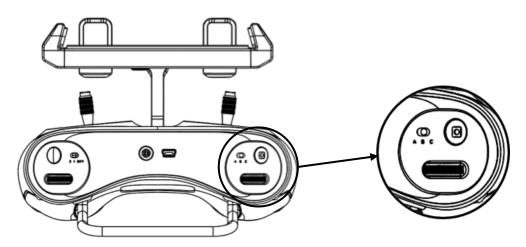
#### NOTE:

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

### **Controlling, Controlling Modes**

#### **Controlling Modes**

FIFISH PRO V6 Expert 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 V6 Expert. 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.

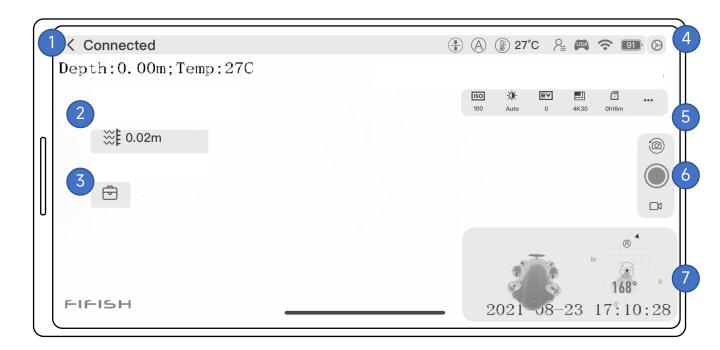
#### **Combination Mode**

Combination mode activate the head tracking controlling via the VR Goggle, which allow pilot to use the VR Goggle to pitch, roll and yaw. Combination mode delivers the intuitive control and immersive experiences. Combination mode supports head tracking and remote controller working together.

#### **Accessories Attached**

The right wheel will ONLY be working in Attitude mode or Combination mode for motor driven accessories. For example, robotic arm, water sampler, robotic fish clamp, and compass ruler, and sludge sampler etc.

### FIFISH App, Operation Interface



FPV Interface in FIFISH App

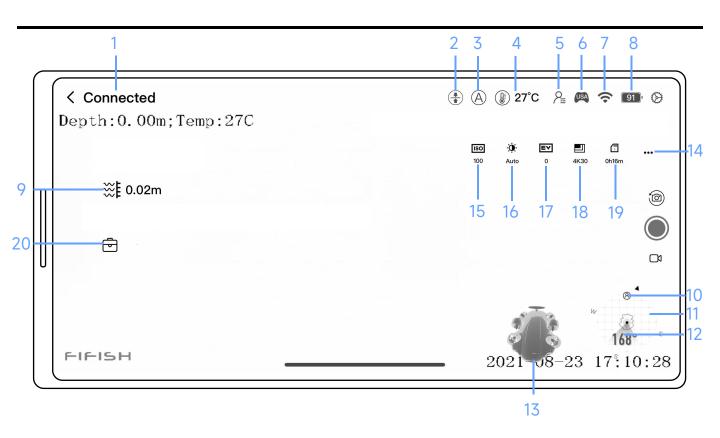
- 1. Status
- 2. Navigation Information
- 3. Additional Features
- 4. General Settings
- 5. Image/Video Setting Shortcut
- 6. Image/Video Button
- 7. Navigation Chart

Note: This FIFISH App interface is iOS 4.1.0. In order to provide better user experiences, QYSEA software team will keep trimming the FIFISH App. For the latest APP introduction, please go to official website to download the relevant user manual or contact the technical support team.

#### NOTE:

The additional features will be active when relevant accessories are attached to the ROV.

### FIFISH App, Operation Interface



#### **Status**

- 1. Current System Status
- 2. Depth Holding ON/OFF
- 3. Control Mode
- 4. Water Temperature in C/F
- 5. Pilot or Spector Status
- 6. Controlling Preference
- 7. RC's Wi-Fi Signal
- 8. ROV's Battery in Percentage

#### **Navigation Information**

9. ROV Current Depth

#### **Navigation Chart**

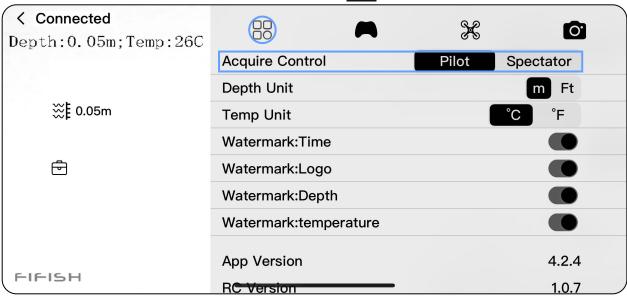
- 10. Pilot's Heading
- 11. Compass
- 12. ROV's Heading in Degrees
- 13. Posture Indicator

#### **Camera Setting Shortcut**

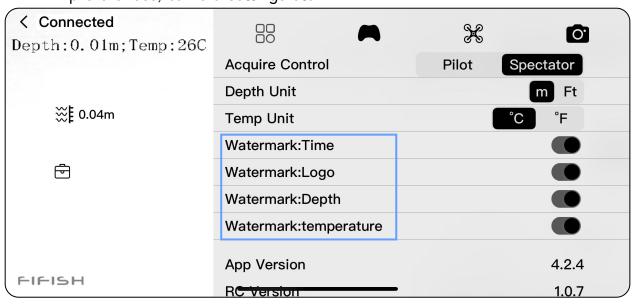
- 14. Camera Setting
- 15. ISO
- 16. White Balance
- 17. Exposure Value
- 18. Resolution Frames Rate
- 19. Remaining Time / Pics
- 20. Toolbox

### FIFISH App, System Setting

General Settings, Select System Setting Icon in 1st column



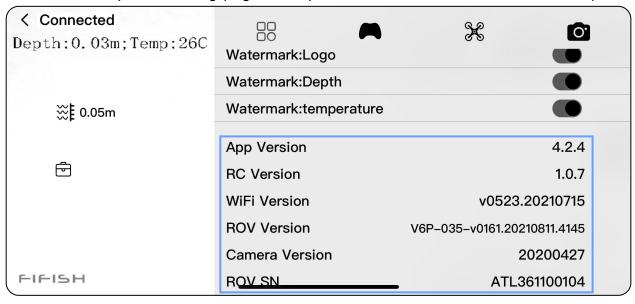
- If you have 2 devices connect to the RC, Click "Acquire Control" to get access controlling and adjusting settings
- ONLY the "Pilot" can manipulate the settings, such as, watermarks, control
  preferences, camera settings etc.



- 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 page, 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

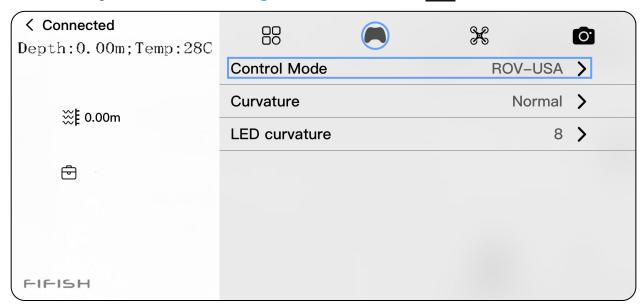


Screen shot of these versions for remote technical support when you are facing any issues.

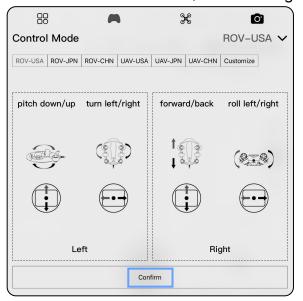
### **FIFISH App, Controlling Preferences**

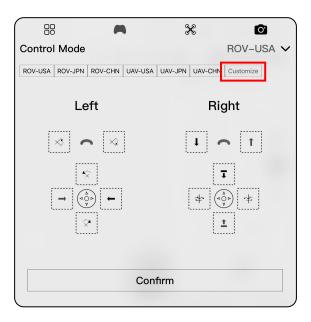
#### **Controlling Preferences**

General Settings, Select Controlling Preferences Icon in 2<sup>nd</sup> column



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



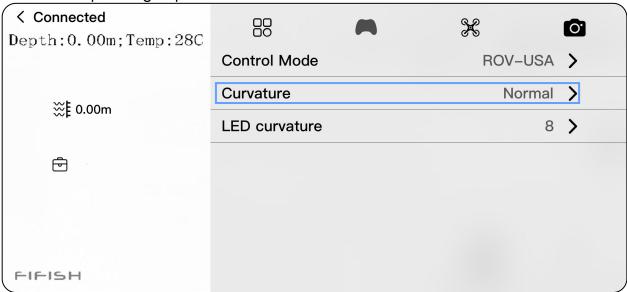


<sup>\*\*</sup>As for advance level pilot seek for customized setting demo. Please check FIFISH authorized local Dealer or Service Center for more details and training programs.

### **FIFISH App, Controlling Preferences**

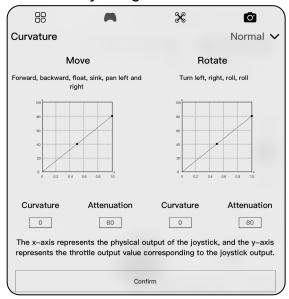
#### **Control Curvature**

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



#### Set the Move & Rotate

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

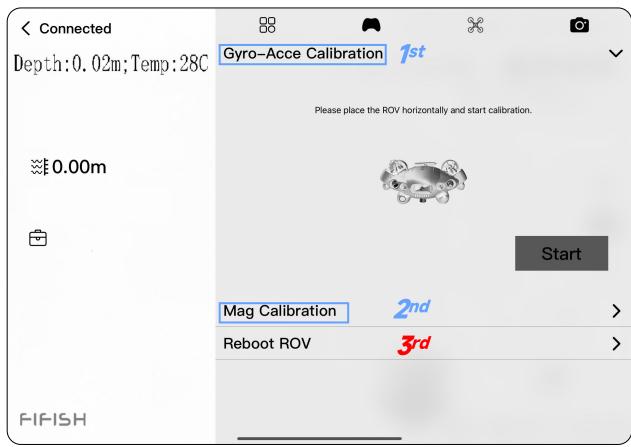


<sup>\*\*</sup>As for advance level pilot seek for explore curvature setting tips. Please check FIFISH authorized local Dealer or Service Center for more details and training programs.

### FIFISH App, ROV Sensor Calibration

#### **ROV Sensor Calibration**

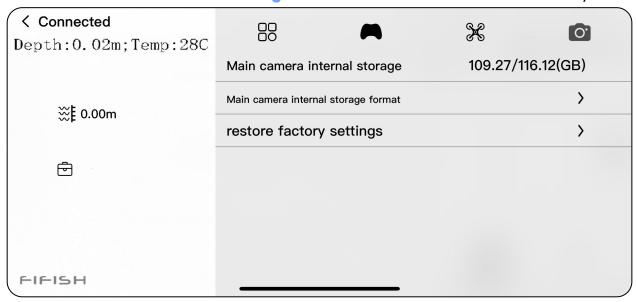
Select the **ROV Sensor Icon** in 3<sup>rd</sup> column



- 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

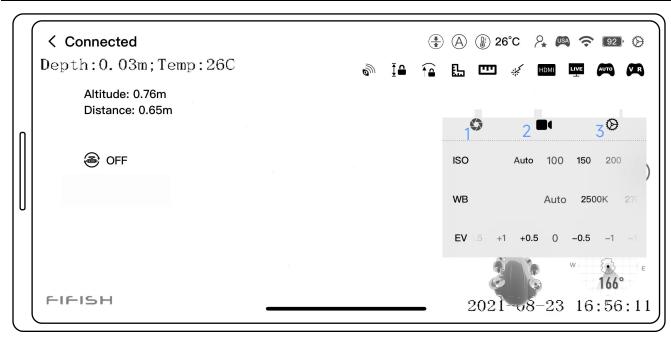
### FIFISH App, Camera

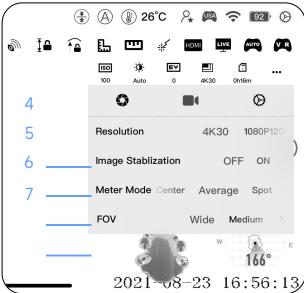
The Main Camera Internal Storage is ROV's main camera internal memory status.



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

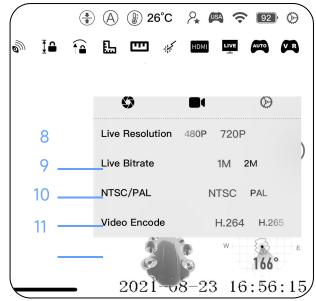
### FIFISH App, Features, Camera





#### **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**

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

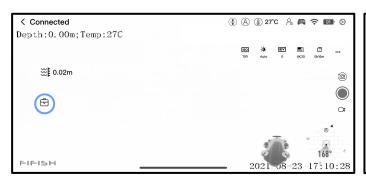
**NOTE:** Shortcut camera setting will have the same results.

### FIFISH App, Features, Assist Driving

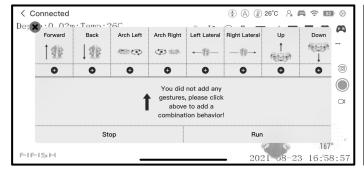
#### Assist Driving 2nd Gen

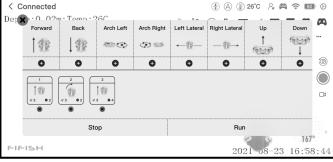
The Assist Driving 2<sup>nd</sup> Gen is able programable auto moving commands.

- 1. Press the "Toolbox" and select Assist Driving to turn ON
- 2. Select moving behavior
- 3. Set speed of such segment
- 4. Set time of such segment
- 5. Program next segment
- 6. Click "Run" to activate the Assist Driving 2nd Gen





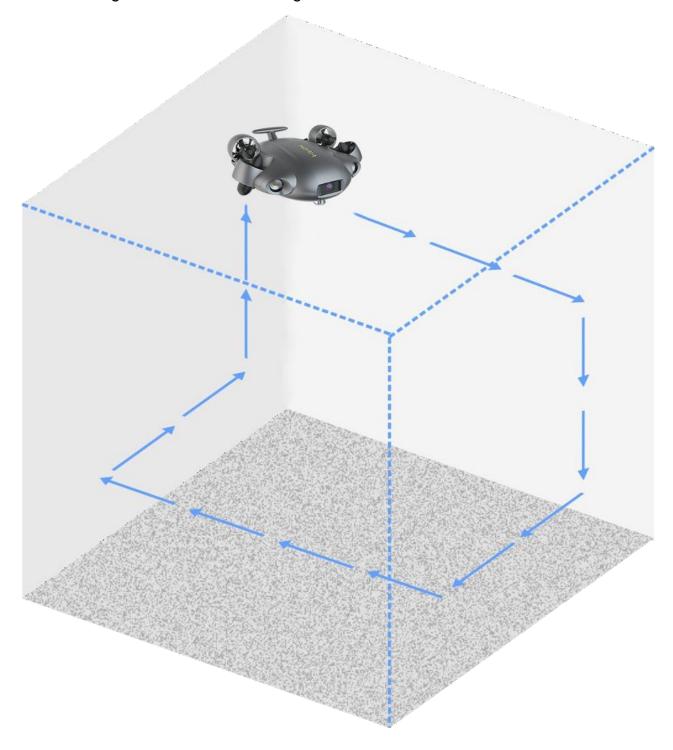




### FIFISH App, Features, Assist Driving

### Assist Driving 2<sup>nd</sup> Gen

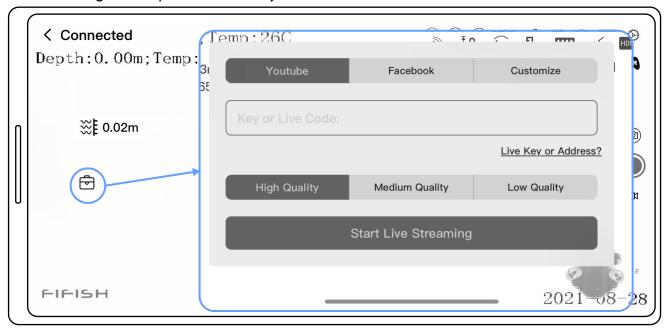
Schematic diagram of the assist driving function



### FIFISH App, Features, LIVE Streaming

#### **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 in "Toolbox"
- 3. Past the **Stream URL** and **Stream Key** in column
- 4. Select the LIVE quality (High, Medium, and Low) 2,3
- 5. Click "Start Live Streaming"

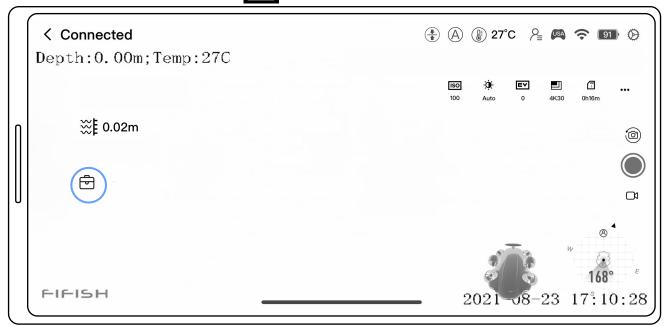


- This feature will request to use the iOS devices. For example, iPhone or iPad SIM card version.
- 2. LIVE stream feature will consume your **Cellular Data**, make sure you have enough Cellular Data in your data plan.
- 3. LIVE stream quality is depending on the local 4G or 5G network speed.

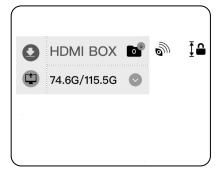
### FIFISH App, Features, HDMI Box

#### **HDMI Box 2.0, Download to Flash Drive**

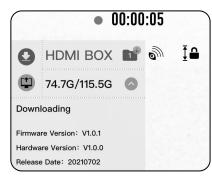
- HDMI Box 2.0 also capable to download the original resolution video from ROV while recording.<sup>1</sup>
- HDMI Box 2.0 will enable to display on a HDTV or transmitter for TV shows.
  - 1. Connect HDMI Box, and Insert a flash drive 1, 2
  - 2. Click the **HDMI** icon [HDMI]



3. The default is Download Mode, the new video will automatically download to flash/portable drive







#### NOTE:

- 1. Download and Display mode **CANNOT** work at same time, more information check the HMDI Box instructions
- 2. Format in FAT32 or exFAT, read and write speed 100 MB/s or higher, USB 3.0
- 3. Flash drive storage 128 / 256 / 512 GB, portable drive 1 / 2 TB

### FIFISH App, Features, HDMI Box

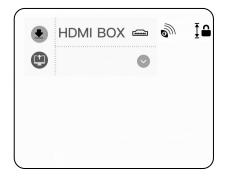
#### **HDMI Box 2.0, HDMI Output**

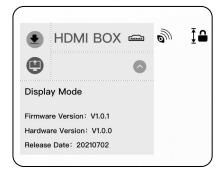
- HDMI Box 2.0 will enable to stream to a HDTV or transmitter for TV shows.
  - Connect to the HDMI Display or stream transmitter broadcasting devices



Click the icon to active **Display Mode** 





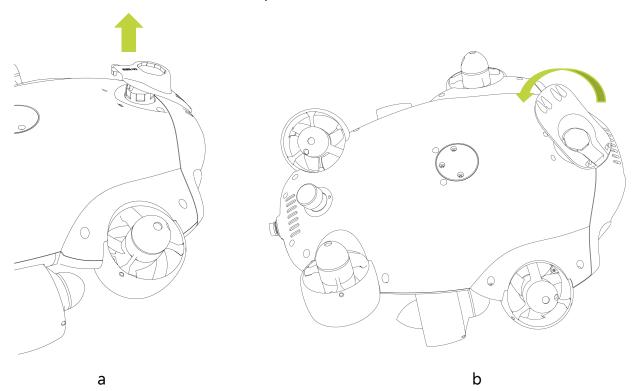




- 1. Download and Display mode **CANNOT** work at same time, more information check the HMDI Box instructions
- 2. The default resolution is 1080P 60fps when HDMI Box is on. (PLEASE DO NOT CHANGE THE RESOLUTION ON FIFISH APP)
- 3. The HDMI Output latency is about 500 ms

### **After-Dive**

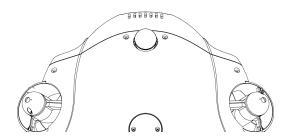
- MicroSD Protective Cap Removal
   Remove the protective cover from the SD card protective cap<sup>[a]</sup>.
   Attach the protective cover to the SD card protective cap, then turn counterclockwise to loosen the cap and remove the SD card<sup>[b]</sup>.

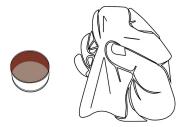


- MicroSD Protective Cap Maintenance

  1. Keep the protective cap clean and dry.

  2. Apply a thin layer of grease to the interior slot (Red area).

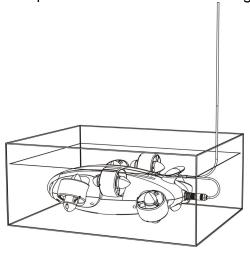




#### **After-Dive**

**Motors Maintenance (After Every Dive)** 

- 1. Connect the RC to V6 Expert 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.
- 5. Air dry V6 Expert in the cool place and avoid direct sunlight.



#### **Battery Maintenance**

- 1. Keep 50% to 60% battery level before long term storage.
- Charge to full once every 90 days.
   If you haven't used FIFISH V6 EXPERT for more than 30 days, you need to use a charger to activate it.

#### **Camera Firmware Upgrade**

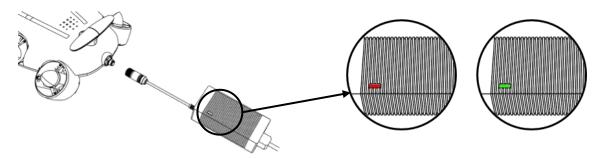
1. Please ensure that the SD card is inserted in the ROV before performing the camera firmware upgrade to avoid failure.



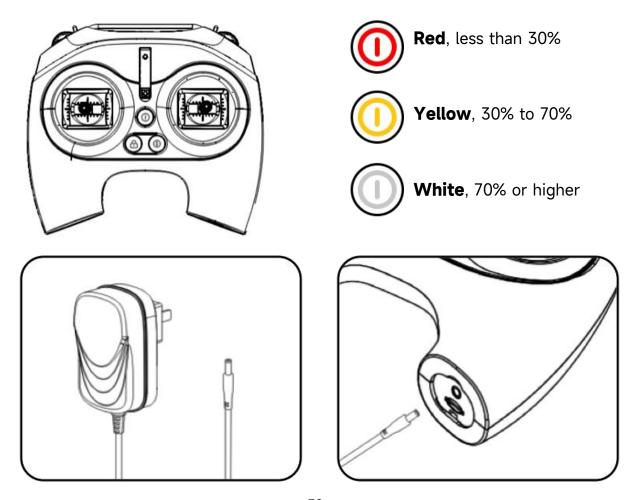
### **After-Dive**

#### **ROV Charging**

**RED** LED indicator illuminates while charging and **GREEN** LED indicator illuminates while fully charged.



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



### **Specifications**

#### **ROV**

Dimension	383 mm × 331 mm × 143 mm 15 in × 13 in × 5 <sup>5</sup> / <sub>8</sub> in		
Weight	4.6 kg	10 <sup>1</sup> / <sub>8</sub> lbs	
Depth Rating	100 meters	328 feet	
Speed	3.0 Knots (1.5 m/s), max speed in s	till water	
Thrusters	Q-Motor Tech × 6	4 × Vector + 2 × Horizontal	
Maneuverability	6 DoF (Degree of Freedom)		
Moving	Sway	Left / Right	
	Surge	Forward / Backward	
	Heave	Up / Down	
Rotation	360° in Pitch, Yaw and Roll *		
Posture Lock™	± 1.0° accuracy	Either in static or moving	
Depth Lock™	± 0.01 m accuracy	Keep ROV suspending	
Operating Temperature	-10°C to - 60°C	14°F to 140°F	
Battery	1.5 hours run time when against 1 m/s current 6.0 hours run time in still water		
	14,400 mAh / 155.52 Wh	Rated Capacity	
	1 Hour Quick Charge (90%)		
	Panasonic 21700 Li-ion		

### **MicroSD Card requirement**

Read / Write Speed	80 MB/s or up (Write)	
Capability	64/128/256/512 GB	
Format	exFAT	
Recommendations	SanDisk (Ultra/Extreme/Extreme Pro) or Samsung, Kingston, Toshiba's microSD card with similar speed	

### **Q-Interface**

Port Number	1 port
Material	316 Stainless Steel
Output Voltage and Current	9.0 ~ 12.0 V, 2.5 A max
Network Bandwidth	100 Mbps

## **Specifications**

#### Camera

Image Sensor	1/2.3"	CMOS	
Pixels	12 Mega Pixels Effective Pixels		
ISO Range	100-6,400	Auto / Manual	
Lens	166	Filed of View (in air)	
	f/2.5	Aperture	
	0.3 m	Minimum Focusing Distance	
Shutter Speed	5 to 1/5000 second	Auto / Manual (Electronic)	
Burst Shooting	1 / 3 / 5 / 10 / 15	Frames	
WB (White Balance)	2500 to 10000 K Auto / Manual		
EV (Exposure Compensation)	- 3.0 ~ + 3.0 EV		
Video Resolution	4K UHD	25/30 fps	
	1080P FHD	25/30/50/60/100/120 fps	
	720P HD	25/30/50/60/100/120/200/240 fps	
Video Encode	H.264		
Stabilization	EIS (Electronic Image Stabilization)		
Photo Resolution	4000 × 3000		
Photo Format	JPEG, DNG		
Color System	NTSC and PAL		
Storage microSD	64/128/256/512 GB Standard Lexar 128GB		

### **LED Light**

Brightness	6,000 lumens	
CCT (Correlated Color Temp.)	5,500 K	
Beam Angle	120°	
Dimming	OFF, 1, and 2	

### **Specifications**

### **Tether and Spool**

Tether Length	100 meters (Standard Package)	328 feet
Tether Diameter	4.0 mm	$^{3}/_{16}$ inch
Breaking Force	100 kgf	220 lbsf
Spool Dimension	238 mm × 213 mm × 205 mm	$9^{3}/_{8}$ inch × $8^{3}/_{8}$ inch × $8^{1}/_{16}$ inch
Spool Weight	2.08 kg	4 lbs 9 ounces

#### Remote Controller (RC)

Wireless	5 GHz Wi-Fi 11 a,n, ac
Battery Life	Up to 4 hours
microSD Card Slot	microSD card format in FAT32 or exFAT (≦128GB), class 10 or higher write and read speed.
miniUSB Port Bandwidth	100 Mbps

#### Charger

ROV	100-240 V, 50/60 Hz, 3.0 A	Max Input
	12.6 V == 10.0 A	Output
RC	100-240 V, 50/60 Hz, 0.5A	MAX Input
	5.0 V 3.0 A	Output

#### **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.gysea.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.

https://www.qysea.com/support/user-manual/