

## FIFISH V-EVO

# FIFISH V-EVO 4K60FPS Underwater Drone Instruction Manual

*Model: V-EVO | Brand: FIFISH*

## 1. INTRODUCTION

The FIFISH V-EVO is an advanced underwater remotely operated vehicle (ROV) designed for professional-grade underwater exploration and imaging. Featuring a 4K 60FPS high frame-rate camera, 360° omnidirectional movement, and intelligent control systems, the V-EVO offers an immersive and precise piloting experience for various aquatic missions. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your FIFISH V-EVO drone.



Figure 1: The FIFISH V-EVO Underwater Drone, showcasing its sleek design and integrated camera and lights.

## 2. PRODUCT COMPONENTS

The FIFISH V-EVO package typically includes the following main components:

- FIFISH V-EVO Underwater Drone
- Remote Controller
- Tether (wired connection between drone and controller)
- Charger for the drone battery
- Battery (integrated)
- VR Goggles (for immersive first-person view)



Figure 2: Overview of the FIFISH V-EVO package contents.

## 3. SETUP GUIDE

1. **Charge the Drone:** Ensure the drone's internal Lithium Ion battery is fully charged using the provided charger. Fast-charging capabilities allow for 90% capacity within 1 hour.
2. **Connect the Tether:** Securely connect the tether cable to the drone. The fin-inspired handle

design aids in stable deployment.

3. **Prepare the Remote Controller:** Attach your smartphone or tablet to the remote controller's holder.
4. **Connect Controller to Device:** Use the provided cable to connect your mobile device to the remote controller.
5. **Launch the FIFISH App:** Download and open the official FIFISH application on your mobile device. Ensure the app is connected to the drone via the controller.
6. **Deployment:** Carefully place the FIFISH V-EVO into the water. The fin-inspired handle design assists in stable and quick underwater deployment.

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Video 1: This video demonstrates the setup and initial deployment of the FIFISH V-EVO underwater drone, including connecting the tether and preparing the controller.

## 4. OPERATING INSTRUCTIONS

### 4.1 Movement and Control

- **360° Omnidirectional Mobility:** The V-EVO offers complete freedom of movement underwater, allowing for precise navigation in all directions, including hovering and posture holds.
- **Depth Hold:** Utilize the one-click depth lock feature to maintain a stable depth, allowing for smooth and precise exploration.
- **VR Control:** Experience immersive piloting with VR head tracking, leveraging unique sensory controls for a first-person view of the ROV's movements.

## 360° OmniView Capture, Move with Ease

- 360° Omnidirectional Movement
- Barrel Rolls & Transitions
- Camera Tilt Shot

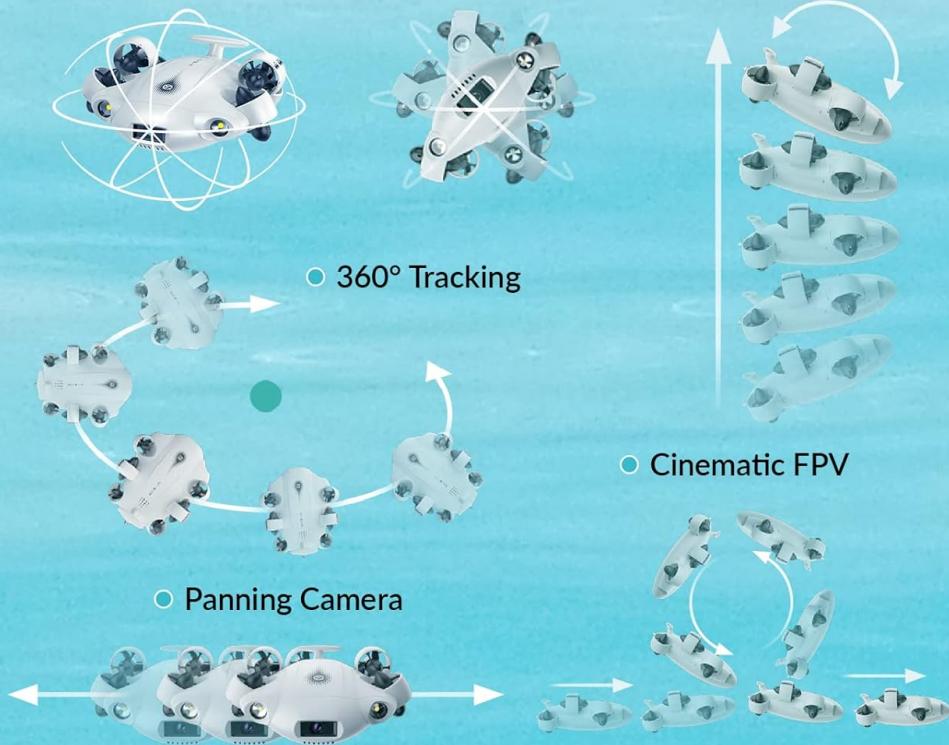


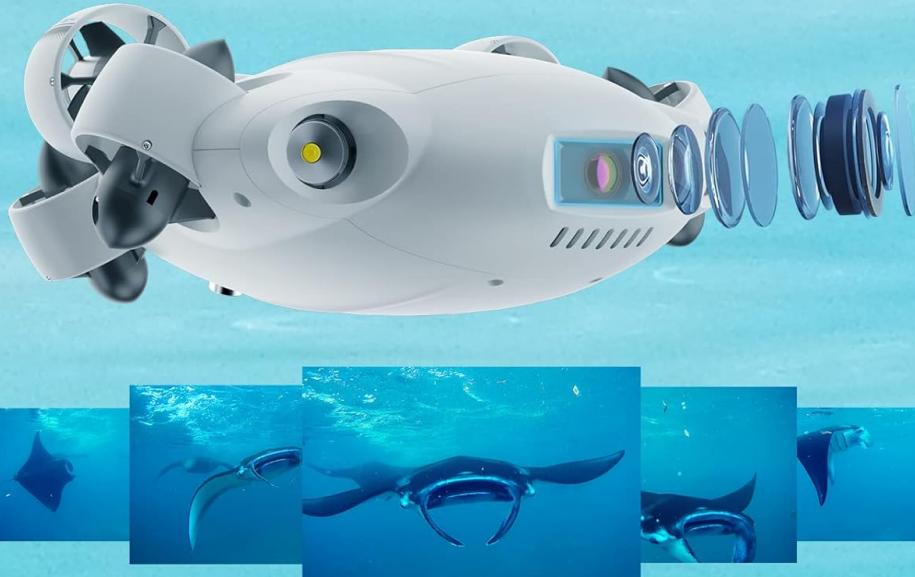
Figure 3: Illustration of the FIFISH V-EVO's 360° omnidirectional movement capabilities, including barrel rolls, tracking, and camera tilt shots.

### 4.2 Camera and Lighting

- **4K 60FPS High Frame-rate Camera:** Capture professional-class footage with enhanced smoothness and clarity. The camera features a 166° ultra-wide-angle lens.
- **AI Vision Lock:** This feature allows the drone to adaptively and automatically lock onto subjects, keeping them securely in focus with high precision.
- **5000 Ultra-bright Lumen LEDs:** Two combined 5000 lumens, 5500K white LED lights optimize vision in deep, dark, or turbid underwater environments, restoring natural colors.

## 4K·60FPS High Frame-rate Camera

Create incredible footage and wonderful underwater moments with FIFISH V-EVO's upgraded camera system.



4K · 60 FPS | See Every Detail

Figure 4: The FIFISH V-EVO's upgraded camera system, capable of capturing 4K 60FPS footage.

## 5000 Bright Lumen LEDs

Optimize your vision across the deep sea. Restore the colors in the world below, especially in dark and turbid environments.



Figure 5: The FIFISH V-EVO utilizing its 5000 Lumen LEDs to brighten and restore colors in the deep sea.

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Video 2: This video demonstrates the Adaptive AI Sea Plankton Filtering Algorithm, enhancing underwater visibility and image clarity.

### 4.3 Data Management

- **Micro SD Card Slot:** The V-EVO comes with a secure Micro SD card slot for fast transfer and storage of files.

### 4.4 Optional Add-on Tools

The FIFISH V-EVO supports various optional add-on tools to enhance its capabilities for specific tasks:

- **Manipulator Tools:** Robotic arm, retrieval hook, fish clamp, fishing net, and dozer for salvaging missions and explorations.
- **Measuring Tools:** Compass ruler, laser scaler, distance and altitude meters, thickness gauge, and hydrophone for detailed environmental understanding.
- **Element Sampling Tools:** Water samplers, dissolved oxygen sensor, salinity sensor, turbidity sensor, pH sensor, and sludge sampler.
- **Navigation Tools:** Underwater positioning systems and Doppler Velocity Logs for precise ROV tracking.

## Enhance Your Abilities(Optional)

( Warm tips: The following accessories are not included in the Package )

○ Robotic Arm



○ Parallel Gripper



○ Caged Arm Claw



Figure 6: Optional accessories for the FIFISH V-EVO, including robotic arms and grippers, to enhance functionality.

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Video 3: This video showcases the FIFISH V-EVO's capabilities for infrastructure inspections, demonstrating its maneuverability and the use of various add-on tools.

## 5. MAINTENANCE

- **Cleaning:** After each use, rinse the drone and tether with fresh water to remove salt, sand, or debris.
- **Battery Care:** Always ensure the battery is charged according to the manufacturer's guidelines. Avoid overcharging or completely draining the battery.
- **Storage:** Store the drone and its components in a cool, dry place away from direct sunlight and extreme temperatures.
- **Propeller Inspection:** Regularly check propellers for any entanglement or damage. The patented Q-MOTOR system is fully sealed from corrosion and sand damage, but regular inspection is recommended.

## 6. TROUBLESHOOTING

- Internal Memory Full/Recording Issues:** If the drone indicates internal memory is full or fails to record, attempt to format the internal storage via the app. If issues persist, consult the manufacturer's support.
- Control Difficulty:** Ensure all connections (tether, controller to device) are secure. Calibrate the controller and check app settings for responsiveness.
- Lack of Technical Support:** For persistent issues or complex problems, refer to the official FIFISH support channels or community forums for assistance.

## 7. SPECIFICATIONS

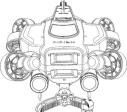
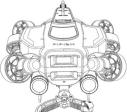
Feature	Specification
Brand	FIFISH
Model Name	V-EVO
Special Feature	Waterproof
Video Capture Resolution	4K
Connectivity Technology	Wireless
Included Components	Battery
Battery Capacity	100 Amp Hours
Video Capture Format	MP4
Remote Control Technology	Wi-Fi
Control Type	Remote Control
Maximum Range	330 Feet
Material	Kevlar
Battery Cell Composition	Lithium Ion
Supported Image Format	JPEG, PNG
Item Weight	21.8 pounds
Product Dimensions	15.07 x 13.03 x 5.62 inches
UPC	768571480637

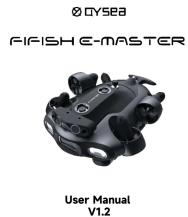
## 8. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the official FIFISH website or contact their customer service directly. It is recommended to keep your proof of purchase for any warranty claims.

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### Related Documents - V-EVO

	<p><a href="#">FIFISH V-EVO</a></p> <p>FIFISH V-EVO</p>
<p>FIFISH V6/V6s</p>  <p>Quick Start Guide V 1.4 QYSEA</p>	<p><a href="#">FIFISH V6/V6s Quick Start Guide</a></p> <p>A comprehensive quick start guide for the FIFISH V6 and V6s underwater ROVs, covering setup, operation, safety, and maintenance.</p>
<p>FIFISH W6</p>  <p>クイックスタートガイド V 1.0 QYSEA</p>	<p><a href="#">FIFISH W6 Underwater Robot Quick Start Guide</a></p> <p>This document provides a quick start guide for the FIFISH W6 Underwater Robot by QYSEA. It covers safety regulations, precautions, introduction to components, connection procedures, controller operation, app usage, maintenance, and technical specifications.</p>
<p>FIFISH PRO W6</p>  <p>ユーザーマニュアル V2.0 QYSEA</p>	<p><a href="#">FIFISH PRO W6 User Manual V2.0</a></p> <p>User manual for the FIFISH PRO W6 underwater drone, covering safety, operation, and maintenance.</p>
<p>FIFISH PRO W6</p>  <p>Quick Start Guide V 1.0 QYSEA</p>	<p><a href="#">FIFISH PRO W6 ROV Quick Start Guide</a></p> <p>This document provides a quick start guide for the FIFISH PRO W6 ROV (Remote Operated Vehicle), detailing initial setup, operation, and safety precautions.</p>



User Manual  
V1.2

### [FIFISH E-MASTER ROV User Manual V1.2](#)

User manual for the FIFISH E-MASTER ROV, detailing its features, operation, and maintenance. Includes E-Series ROV comparison, sensor functions, and pre-dive, operation, and post-dive precautions.