QYSEA

QYSEA

REDISCOVER THE SEA

FIFISH

UNDERWATER ROBOT

AI Underwater Solutions Expert

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QYSEA Website

QYSEA YouTube

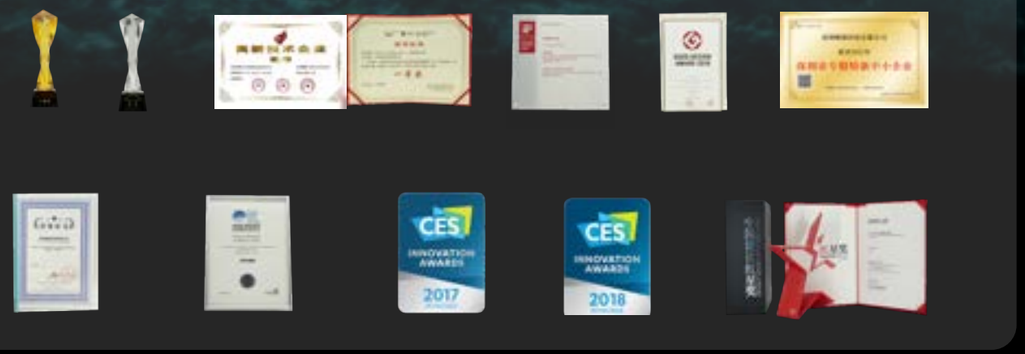
About QYSEA

Founded in 2016, Shenzhen QYSEA Tech Co., Ltd. is a high-tech enterprise focused on the R&D, production, and sales of underwater robots. It is also an ecological chain enterprise of Xiaomi Corporation. The core team of QYSEA consists of members from Fortune 500 companies, including Huawei, Microsoft, DJI, and Foxconn. The company is committed to developing solutions for underwater robotic systems, artificial intelligence, big data, and specialized services, to enable deeper exploration of the oceans using innovative AI technologies.

The company has two main production lines, offering six major products, and holds a total of more than 150 global patents. Its FIFISH Underwater Robot series has won the CES Innovation Awards in the United States twice, as well as two of the world's four major product design awards: the iF Product Design Award in Germany and the Good Design Award in Japan. QYSEA's line of products covers a wide range of applications within nine key industries, including aquaculture, search and rescue, underwater security, shipping, subsea infrastructure, offshore wind energy, film/photography, and more. With the ability to reach depths of up to 350 meters below sea level and the capability to attach to over 20 professional-class tools, QYSEA Technology is truly an industry leader in the development of underwater robotics and innovative subsea solutions.

Qualifications & Honors

QYSEA Technology has established a strong reputation in the global underwater robotics industry, utilizing technologically innovative solutions that empower ocean exploration and discovery. Since its establishment, the company has remained committed to product innovation and talent development, resulting in the acquisition of over 150 global patents, numerous honorary certifications, and recognition from various sectors. These accomplishments have significantly bolstered the international recognition and awareness of the QYSEA · FIFISH brand.



Technological Advantages

Real-time & Autonomous Precision Control Systems

Miniature & Low-Cost Underwater Communication Systems

Hybrid Power & Propulsion Systems

AI Vision Locking System

Underwater Vision Algorithm

Comprehensive & Fluid Design Systems

Company Timeline

2016

QYSEA Technology is Officially Established

QYSEA Completes Pre-Series A Financing in the Tens of Millions

2017

QYSEA's FIFISH P3 Underwater Robot is Awarded the CES Innovation Award in the United States

2018

Technological Breakthrough

Self-developed Motor Enables Omnidirectional Underwater Movement

Successful entry into the Japanese market

Recipient of the **Good Design Award** in Japan

2019

Technological Optimization

QYSEA Introduces its Autonomous Underwater Sensor Array System

Successful Entry into the European & North American Markets

2020

QYSEA Releases its Enterprise-level Underwater Robots

Successful Expansion Into Domestic Chinese Market

Recipient of:

* China Design Intelligence Award (DIA)
* China Design Red Star Award
* German iF Design Award

2021

Introduction & Implementation of Multi-industry Solutions

Establishment of Shanghai Team & Branch

Completion of Xiaomi's Series B1 Round of Financing

2022

Introduction of Light Work and Inspection-class Underwater Robot

Establishment of Overseas Team & Branch

Completion of Cowin Capital's Series B2 Round of Financing

Product Line & Accessories

100m

FIFISH V-EVO

Manipulator Tools

Robotic Arm

Manipulator Tools

Parallel Gripper

Manipulator Tools

Caged Arm Claw

Enhancement Tools

Retrieval Hook

Enhancement Tools

HDMI Box

Enhancement Tools

VR Goggles

100m

FIFISH E-GO

Observation Tools

Q-Camera

Measurement Tools

Compass Ruler

Navigation Tools

U-QPS
(Underwater GPS)

FIFISH V6 EXPERT

Manipulator Tools

Robotic Arm

Sampling Tools

Water Sampler

Enhancement Tools

OPSS
(Onshore Power)

150m

FIFISH PRO V6 PLUS

Observation Tools

Q-Camera

Measurement Tools

Laser Scaler

Navigation Tools

U-QPS
(Underwater GPS)

Manipulator Tools

Robotic Arm

Sampling Tools

Water Sampler

Enhancement Tools

OPSS
(Onshore Power)

350m

FIFISH W6

Observation Tools

2D Image Sonar

Measurement Tools

Ultrasonic Metal
Thickness Gauge

Navigation Tools

U-QPS
(Underwater GPS)

Manipulator Tools

Robotic Arm

Sampling Tools

Water Sampler

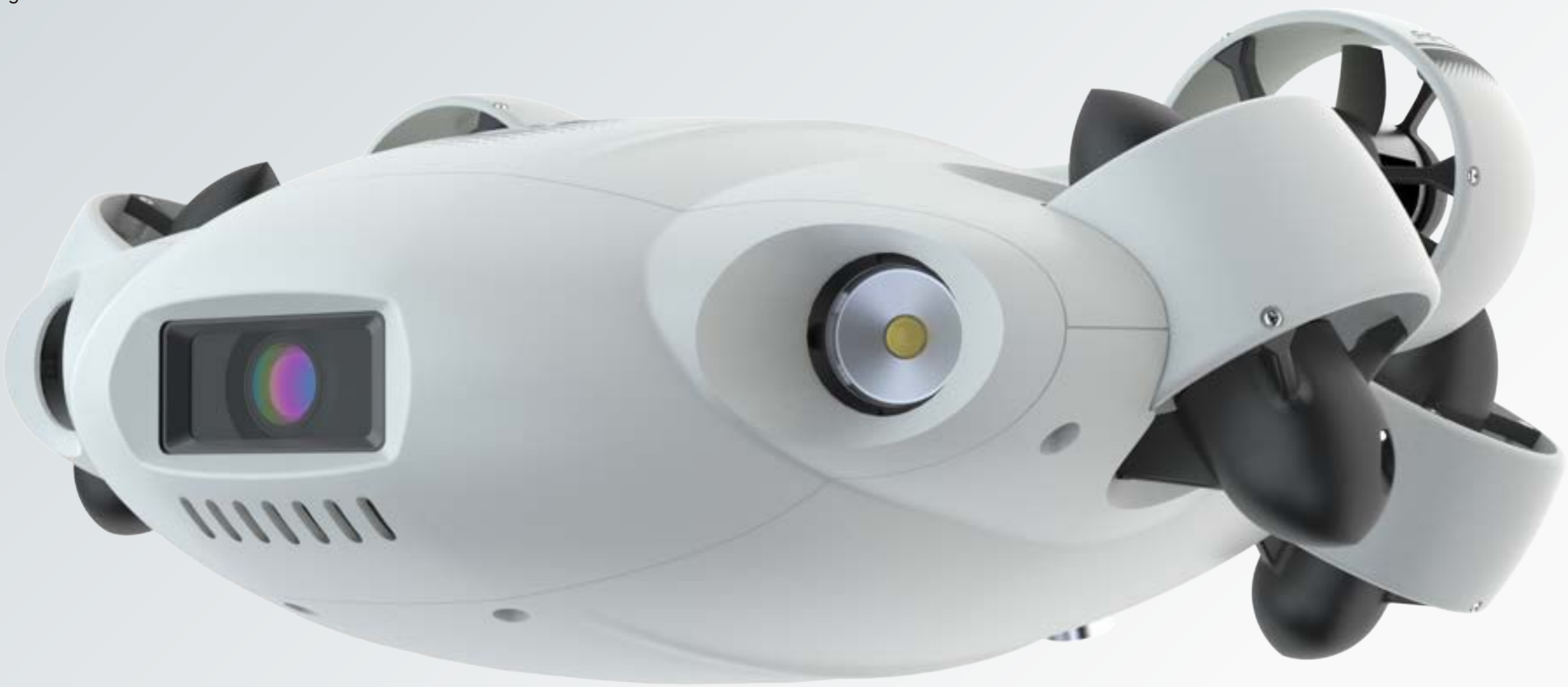
Enhancement Tools

OPSS
(Onshore Power)

Consumer-class
4K Underwater Drone

FIFISH V-EVO

FIFISH V-EVO by QYSEA is the world's first consumer-grade underwater drone integrating a 4K·60FPS high-definition imaging system with 360-degree omnidirectional movement. With cutting-edge technology and QYSEA's years of expertise in underwater exploration, it revolutionizes the traditional limitations of underwater cinematography and leads to a comprehensive evolution in underwater creative imaging.



FIFISH V-EVO

4K
4K · 60 FPS Camera

AI Vision Station Lock

166°
166° Ultra-wide View

2 Knots
Flow Resistance

Omnidirectional
Movement

-10~60°C
Operating Temperature

4 Hours Dive Time
(4h on Hover,
1h at Full Speed)

100m Diving Depth

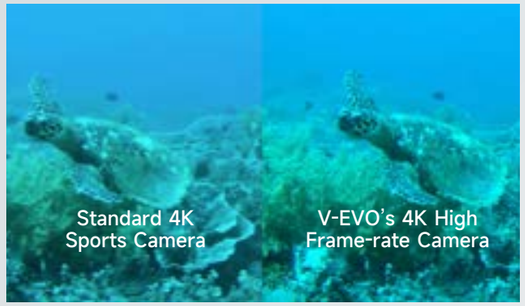
3 Knots of Speed

5000 Lumen
LED Lights

Capture Like a Pro

4K·60FPS High Frame-rate Camera

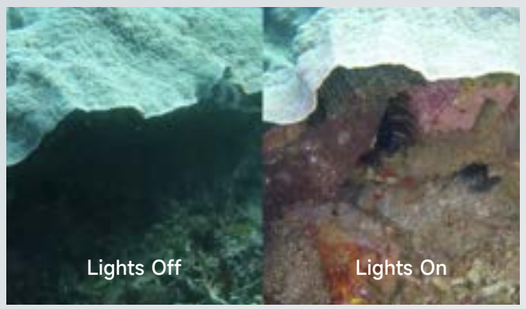
Create epic footage and wonderful underwater moments with V-EVO's upgraded camera system, achieving professional-class shots with ease and enhanced smoothness.



Light Up the Seas

5000 Ultra-bright Lumen LEDs

Optimize your vision across the deep sea with V-EVO's pair of combined 5000 lumens · 5500K white LED lights.



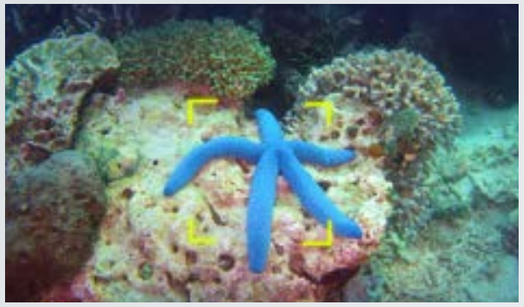
Discover Far & Wide

166° Ultra Wide-angle Imaging

Go beyond a conventional underwater lens to achieve a greater impact with your visuals.

Precise A.I. Subject Focus

FIFISH V-EVO's Vision Station Lock keeps your subjects securely in focus. Determine positions of objects adaptively and lock onto subjects in real-time.

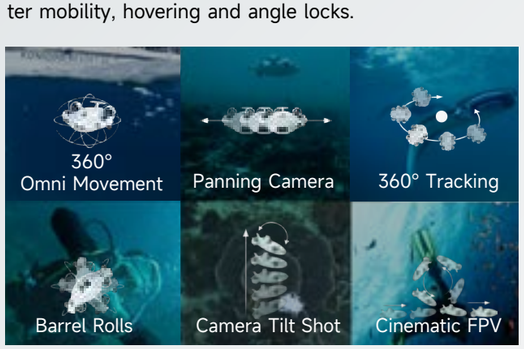


VR Immersive Control

Achieve full 360° control of the FIFISH's view and path simply by moving and turning your head. Empower your dives with FIFISH's unique all-new FPV control.

360° OmniView Capture

Turn your creative imagination into detailed 4K imaging reality. Achieve a full 360-degree flexibility in underwater mobility, hovering and angle locks.



Compact Size, Rugged Power

70N Clamping Force & Lock

70N Carry & Drag Weight

Enhance Your Abilities

Professional Class
Compact Underwater Work Robot

FIFISH V6 EXPERT

FIFISH V6 EXPERT is a professional-grade AI underwater robot and serves as a versatile underwater productivity tool. It can be equipped with an onshore power supply system, ensuring safe and uninterrupted operations. With the Q-IF port interface for multi-tool expansions, the V6 EXPERT can accommodate various professional accessories to take on a diverse range of underwater applications and tasks.

FIFISH V6 EXPERT

Diving Depth

3 Knots of Speed

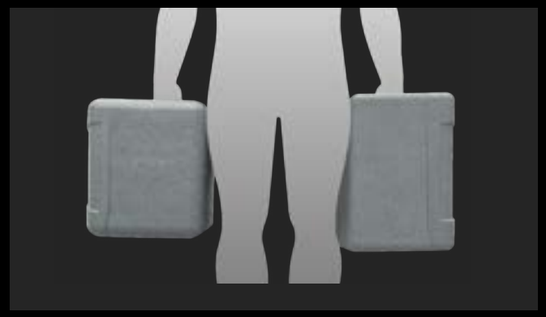
Built-in SD Card Slot
(Quick Data Transfer)

5 Hours Dive Time
(5h on Hover,
1.5h at Full Speed)

Lasting Power, Performance & Reliability

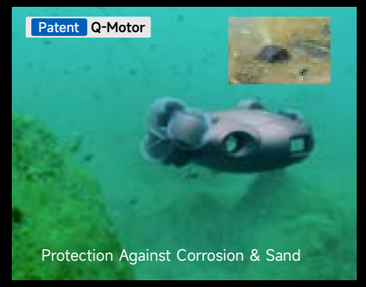
Seamless and quick deployment of energy packs for smooth, lengthy and uninterrupted diving sessions.

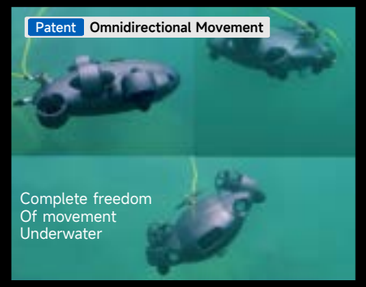
Quick & simple installation for a continuous workflow



Easy carrying, deployment, operation & maintenance

Streamlined Design & Robust Build





Patent Q-STEADY 2.0

Introducing the FIFISH's latest Q-Steady 2.0 Stabilization System, delivering ultra-smooth and steady footage no matter where your challenging missions take you.

Efficient Against Currents

A Streamlined design for minimum water resistance and enhanced power efficiency, the V6 EXPERT delivers a continuous flow of work for 1.5 hours even against currents of 1m/s .

Multi-Capable Underwater Productivity Solution

FIFISH V6 EXPERT's interface allows the efficient integration of a wide range of professional-level and industry-specific tools to tackle different scenarios and tasks.

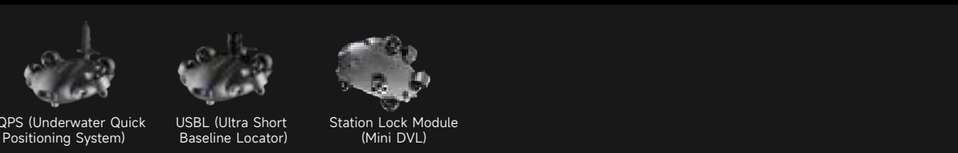
Inspection Tools

Q-Camera | 2D Image Sonar | HDMI Box 2.0 | Controller Sun Hood | Sports Camera Mount | External Lighting Mount | Remote Distance Control System

Measurement Tools

Compass Ruler | Laser Scaler | Distance Meter | Altimeter

Navigation Tools



U-QPS (Underwater Quick Positioning System) | USBL (Ultra Short Baseline Locator) | Station Lock Module (Mini DVL)

Manipulator Tools

Robotic Arm | Retrieval Hook | Mort Remover | Fishing Net | Underwater Dozer

Sampling Tools

Water Sampler (100ml) | Water Sampler (500ml) | Dissolved Oxygen Sensor | Salinity Sensor | Turbidity Sensor | pH Sensor | Mud Sampler

Industry Class
Modular Underwater Work Robot

FIFISH E-GO

FIFISH E-GO boasts an innovative streamlined modular design, enabling rapid disassembly and reassembly of its components. The E-GO significantly improves the convenience and efficiency of machine maintenance, power replacements, and accessory changes. The cutting-edge dual power system supports extremely fast charging and allows for hot-swapping without the need to power down, ensuring uninterrupted endurance. FIFISH E-GO delivers powerful and dependable operational performance, making it the optimal companion for underwater missions.

FIFISH E-GO

Efficient Speeds
3+ Knots of Speed
Omnidirectional Quick Movement

Extensive Operation
2.5h Operational Time
Seamless Power Replacement

Heavy Payload
Maximum 6 Attachment Ports
5kg Underwater Payload Capacity

Strong Resistance
Q-Steady 3.0 Self Stabilization
AI Vision Station Lock

Easy to Control
360° Precision Control & Operation
Multiple Modes & Customizations

Modular Design
Instant Power Replacement
9-second Accessory Installations

AI Assisted Functions
AI Image Enhancements
AI Fish Detection & Counting

Fast Charging
Fast Charge to 90% in 50min.
Supports Portable Charging Station

Ultra Wide & Clear
146° Ultra-Wide Underwater FOV
10cm Macro Focus Range

Powerful Ring-Wing Motors

The FIFISH E-GO's ring-wing motor system exceeds 3 knots in speed, excelling in challenging waters and providing a 30% power increase while ensuring reliability, wear resistance, and corrosion protection.

360° Omni Movement

Leveraging FIFISH patented six-directional vector layout, FIFISH E-GO achieves a complete 360° full-dimensional underwater motion, eliminating blind spots.

AI Vision Station Lock

Accurately lock onto underwater targets with a single touch on your screen. AI Vision Station Lock calculates the vehicle's position, enabling all-round, adaptive, and autonomous control while maintaining a stable floating posture.

AI Visual Enhancements

Using adaptive methods for dehazing, contrast enhancement, and natural color correction, FIFISH E-GO delivers enhanced, realistic, and higher-quality visuals.

Streamlined Build

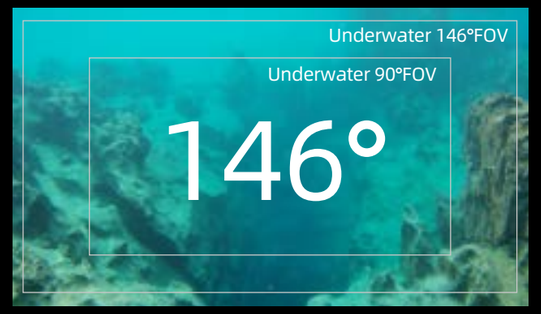
FIFISH E-GO features a brand-new hammerhead shark-inspired design, applying fluid dynamics principles for optimal underwater adaptation and stable power performance.

Biomimetic Design

FIFISH E-GO's tail fin design improves balance, enables easy one-handed handling, reduces water flow interference, and serves as a cable anchor, protecting both the cable and interfaces from external damage.

Ultra-Wide Fisheye Lens

Equipped with an industry-first ultra-wide camera, FIFISH E-GO provides a 176° surface-level view and a 146° panoramic underwater perspective, enhancing information-gathering capabilities underwater.



Four-Lamp Illumination

FIFISH E-GO's multi-lamp LED lights provide up to 10,000 lumens of brightness and a 160° beam angle with adjustable intensity across three levels.

Macro Underwater Focus

With a 10cm macro focus range, FIFISH E-GO ensures precise close-range imaging even in turbid waters, allowing for detailed captures at various distances.

Efficient File Transfer

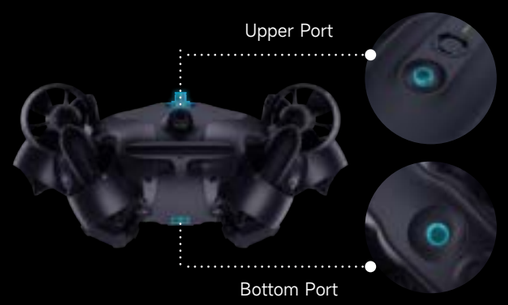
FIFISH E-GO features an external Micro SD card slot, allowing for quick insertion, removal, and data retrieval. It supports storage of up to 256GB, providing ample recording space for professional tasks.

Dual Power System

FIFISH E-GO includes an external Micro SD card slot for easy insertion, removal, and data retrieval. It supports up to 256GB of storage, offering ample recording space for professional tasks.

Expandable Add-on Ports

FIFISH E-GO has dual load ports on its top and bottom. With optional expansion docks, the E-GO can simultaneously accommodate up to 6 operational tools for deep-sea tasks.



5kg Payload Capacity

FIFISH E-GO supports a maximum payload of 5kg with powerful and stable control. Customize your setup with professional add-ons tailored to your specific operational needs.

Portable Charging Solution

v E-GO comes equipped with a portable smart charging solution, the Q-Energy Station, offering three distinct charging modes:

Smart Charge Mode: Reach 150 minutes of standard operational time on a full charge, with 50-minute rapid charging to 90% capacity.

Outdoor Power Mode: Dual USB Type-C ports with 60W fast-charging support to power your mobile devices and controllers simultaneously.

Charge Management Mode: Monitor and manage the power status and health of the power modules through the station's display screen.

* Q-Energy Station is optional & available separately or as part of a package.

Simplified Maintenance & Repairs

FIFISH E-GO integrates four core systems—motor, imaging, lighting, and battery—into easily detachable modules, enabling rapid maintenance. Battery and accessory removal is achieved within seconds, while spare parts can be replaced in just 5 minutes.

Versatile Configurations

In various operational scenarios, QYSEA offers dozens of professional add-on accessories, enabling a personalized configuration that suits the operator's specific needs.

Enterprise Class
Intelligent Underwater Inspection Robot

FIFISH PRO V PLUS

FIFISH PRO V6 PLUS is an advanced underwater inspection and solutions expert with a depth rating of 150 meters. The PRO V6 PLUS features a self-developed Q-motor stabilization and an intelligent underwater inspection system, offering an innovative solution for advanced inspections, enhanced functionality, and simplified operations.

FIFISH PRO V6 PLUS

Q-motor Stabilization System

600 Hours Battery Life

6000 Lumen LED Lights

Q-IF Multi-tool Extension Interface

150m Diving Depth

3 Knots of Speed

Built-in SD Card Slot (Quick Data Transfer)

5 Hours Dive Time (5h on Hover, 1.5h at Full Speed)

Intelligent Distance & Altitude Lock

The Distance & Altitude Sensors measure the forward distance and the downward altitude in real-time, adaptively maintaining set distances with objects and the seafloor. Achieve more efficient and accurate inspections with ease.

Distance Sensor

Altitude Sensor

Obstacle Avoidance

Terrain Scanning

Smart Underwater Measuring System

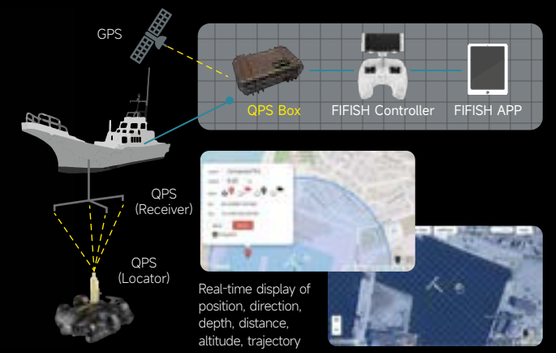
Laser Scaler

AR Ruler

AR Grid

Real-Time Underwater Location Tracking (U-QPS)

Utilizing the QYSEA patented Underwater Quick Positioning System (U-QPS), identify, track and record data on the ROV's underwater position in real-time.



4K UHD Imaging System, with 6000 Lumen Lights

The V6 Plus's combination of its ultra-high-definition camera and powerful lighting system produces outstanding images that illuminates its surrounding underwater environments, transforming the dark spaces to as bright as day.

166° Wide-angle Lens

240 FPS SloMo Capture

4K UHD Camera

DNG Format Support

12 Megapixel Resolution

6000 Lumen LED Lights

5500K Color Temperature

F/2.5 Aperture

New Generation Q-motor System Comprehensively Upgraded.

Utilizing FIFISH Technology's "Closed-Loop Stabilization Algorithm," it autonomously adjusts the power curve based on external environmental disturbances, ensuring more stable ROV image capture, akin to an underwater gimbal. The metal propellers are built to industrial standards, ensuring durability and longevity.

Enterprise Class
Intelligent Underwater ROV Platform

FIFISH PRO W6

FIFISH PRO W6 is an industrial-grade intelligent underwater robotic platform capable of reaching depths of up to 350 meters. The PRO W6 utilizes the Q-motor system, providing powerful propulsion and stability against strong currents. Its modular build and multiple port interfaces enable quick component replacement and switching of different functional accessories, ensuring intelligent, effective, and precise operations.

FIFISH PRO W6

Q-motor Stabilization System

AI Vision Station Lock

2D Image Sonar + 3D Mapping

12000 Lumen LED Lights

Dual 4K Camera System

350m Diving Depth

1000 Hours Battery Life

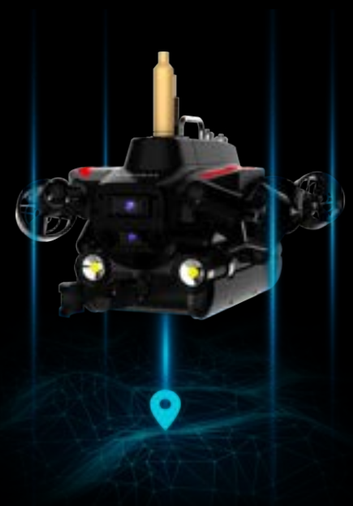
-10~40°C Operating Temperature

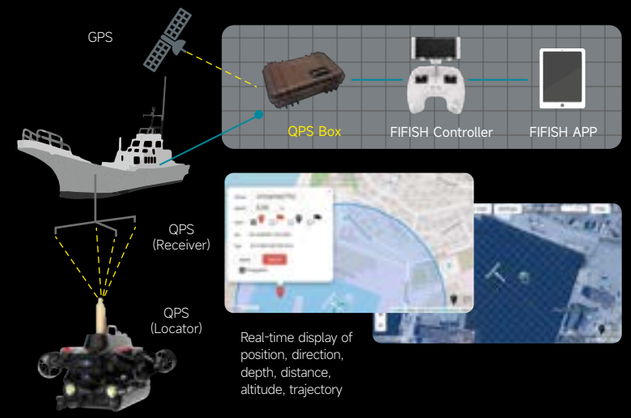
6 Hours Dive Time (6h on Hover, 2h at Full Speed)

Q-IF Multi-tool Extension Interfaces

Real-Time Underwater Location Tracking (U-QPS)

The U-QPS (Underwater Quick Positioning System) is a software and hardware ecosystem that provides a 3D map of the FIFISH's real-time location, POI recordings, three-dimensional dive paths, as well as a one-click function for returning to its original location. The system delivers an enhanced operating and inspecting experience for the ROV pilot.





Identify Structures & Objects with Sonar Imaging

Efficiently scan and inspect underwater environments in dark and turbid conditions. Receive detailed visual data of the surrounding seabed areas and operate the oceans with great stability and efficiency.

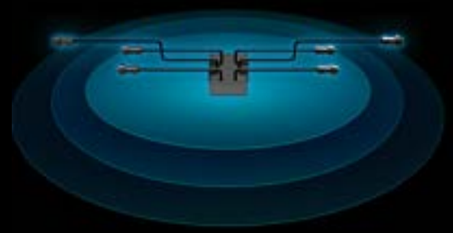
3D Station Lock System

FIFISH PRO W6's adaptive and intuitive system keeps its position fully stable against underwater interferences. Execute and deliver inspections with exceptional stability, smoothness, and precision.

Innovative & Modular Design

5x Q-IF Interface Ports for Multi-Tool Integrations

FIFISH PRO W6 is an advanced ROV platform that can be highly customized towards a diverse range of industry-specific applications. Its five-interface port system provides the pilot the ability to add on and operate with different tools simultaneously, elevating the efficiency of underwater operations and expanding its applications across various professional fields.



Applications

Aquaculture & Mariculture

Net Cage Inspections

Oyster Farm Inspections

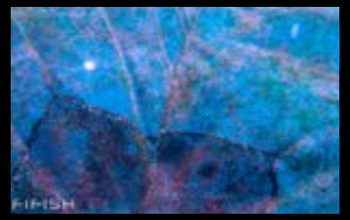
Net Cage Frame Inspections

Feeding Inspections

Population & Growth Monitoring

Water Quality Monitoring & Sampling

Net Damage & Repair



Mort Removal

Artificial Reef Monitoring

Offshore Energy

Sacrificial Anode Inspection & Cleaning

Submarine Cable Inspections

Foundation Scour Inspections

Pile Internal Inspections

Grouting Inspections

Bend Restrictor Inspections

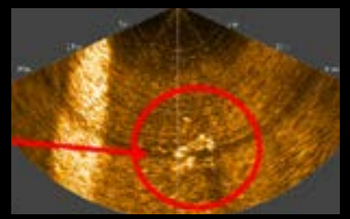
Pile Foundation Inspections

Corrosion & Welding Inspections

Applications

Search & Rescue

Sonar Search for Missing Subjects & Objects

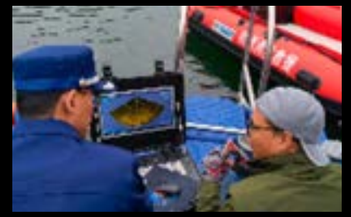


Rope Salvage & Rescue

Underwater Investigations

Subject Search & Recovery

Underwater Positioning & Location Tracking



Diving Search & Rescue

Team Rescue Operations

Shipwreck Search & Rescue

Hydropower

Pipeline Valve Inspections

Treatment Plant Inspections

Aeration Disc Inspections

Outer Pipeline Inspections

Joint & Gap Inspections

Damage Monitoring & Measurement

Underwater Gate Inspections

Supply Pipe Inspections

Applications

Leisure & Exploration

Underwater Photography

Scientific Discovery

Fishing & Angling

Underwater Explorations

Live Streaming

Yacht & Boat Parties

Infrastructure

Damage Monitoring & Measurement

Pipeline Inspection & Maintenance

Intake Pump Inspections

Equipment Inspections

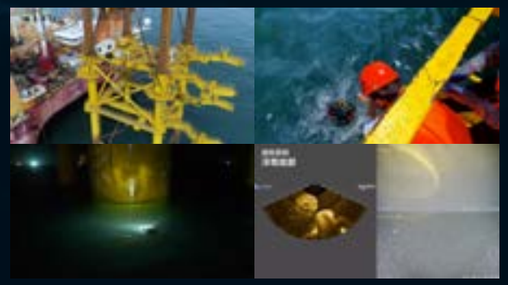
Bridge Bottom Inspections

Offshore Infrastructure Inspections

Case Studies

Offshore Energy

The FIFISH provides you with a one-stop solution that is safe, seamless, and cost-effective. It is suitable for frequent industrial maintenance and operational work on small and large offshore structures.



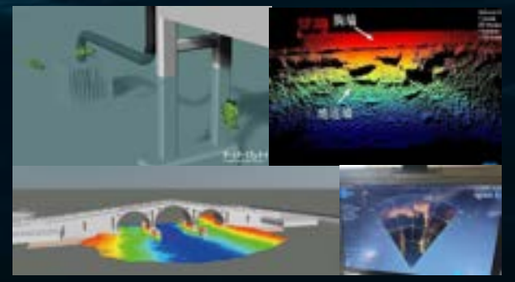
Assistance in construction & inspection of offshore wind structures in Jieyang, P.R.C.

Operation & maintenance of offshore wind structures in Zhanjiang, P.R.C.

Infrastructure & bridge inspection

With its compact size, FIFISH underwater robots fit easily into the small spaces of submerged structures and perform reliable inspections, utilizing their omnidirectional movement capabilities.

Assistance in monitoring and inspection of bridge structures in Shenzhen, P.R.C.

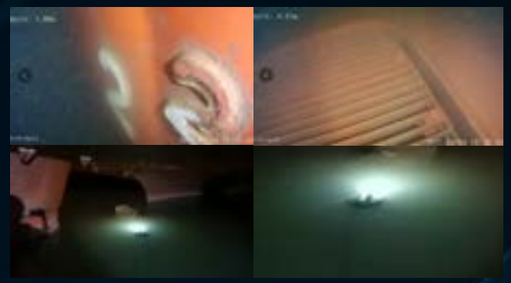


Inspection and monitoring tasks for one of Japan's top steel mills

Hull inspections

FIFISH underwater robots are highly capable and equipped for shipyard inspections, providing a safe, ready-to-go, and efficient solution for hull check-ups.

Collaboration with world-renowned shipyard, Keppel Offshore & Marine, for inspections in Singapore



Collaboration with world-leading paint and coating manufacturer, Jotun Marine Coatings

Pipeline Inspections

FIFISH offers a safe, efficient, and portable solution for precise pipeline inspections and monitoring of operations. With its compact size and flexible movements, it enables efficient inspections of both the external and internal conditions of pipelines.

Underwater pipeline maintenance and monitoring for damaged pipelines in Greece

Underwater pipeline inspections conducted in Japan

Case Studies

Search & Rescue

FIFISH provides a safe, efficient, and portable solution for various underwater search and rescue operations, offering tools suitable for both the commercial and consumer markets.

Recovery of a submerged car by the German rescue organization DLRG

Search & rescue for missing tourist on a yacht

Vehicle accident recovery from a riverbed in Central China

Accident recovery involving tourists on a sightseeing boat in Japan

Underwater bomb recovery & disposal in Jingdezhen city, P.R.C.

Rescue drill conducted by South China's emergency management department

Hydropower

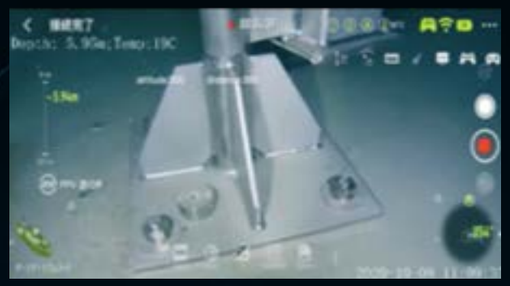
With their compact size, FIFISH underwater robots easily fit into the confined spaces of hydropower structures and turbines, allowing for reliable inspections. The omnidirectional movements enable efficient maneuvering, and inspections can be conducted without the need for dewatering the structures.

Inspection of the South-to-North Water Diversion Project in China's Hangjiang River

Inspection at China's Xin'anjiang Hydropower Station

Water pump testing in Taizhou, P.R.C.

Dam inspection and maintenance by Kansai Electric Power in Japan



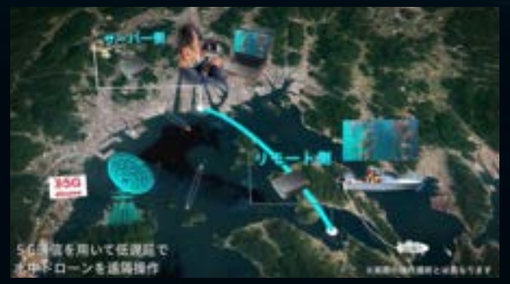
Structural & water quality inspection of nuclear power plants in Japan

Case Studies

Aquaculture

The FIFISH Underwater Robot provides a safe and stable solution for farmers to monitor and assess their livestock. Compared to traditional methods, where farmers would need to make the dives themselves, underwater robots are simple to operate and ready to go anytime, with fewer risks involved.

Smart Fisheries in Jiangsu, P.R.C.



Remote distance control of FIFISH for aquaculture monitoring, using 5G+ networks in Japan

Aquatic marine ranch in Dalian, P.R.C.

AFE (Australian Fishing Enterprises) tuna farming in Australia

Inspections at the Atlas South Sea Pearl Farm

Salmon farm monitoring in Norway

Marine Conservation

The FIFISH is an important tool for quietly and safely monitoring the marine environment, which is home to hundreds of thousands of species and diverse habitats that support them.

Smart marine water environment monitoring platform

Biometric identification with AI

Deep water sample collection in Japan

Emergency monitoring of hazardous chemical spills

Object sample & retrieval

Collection & analysis of underwater samples

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