

Enterprise & Industrial-grade ROV Platform

Carry Out Deep-diving & Advanced Subsea Operations



FIFISH PRO *WE*

350m Depth-rated
Intelligent Underwater Inspections & Operations Expert

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Powerful & Precise, Advanced Add-Ons,
Exceptional Stability, Superior Battery

FIFISH PRO W6

FIFISH PRO W6 is an industrial-class ROV platform, equipped with an all-new powerful, and patented Q-Motor system, a diving depth of 350 meters, powerful operating features and tools, as well as intelligent stabilization systems against strong currents. Operate with power, precision, and efficiency.



FEATURES

350m

Max. Depth

3 Knots

Current Resistance

-10~40°C

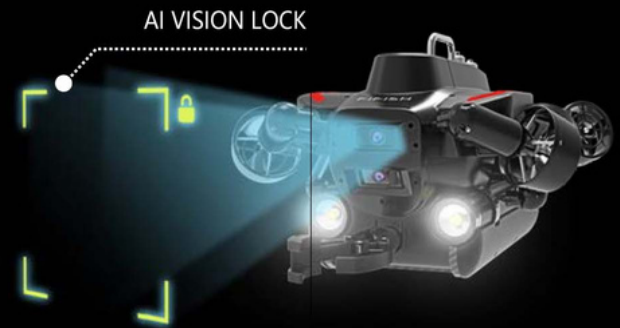
Temp. Range

4-6 Hours

Dependent On Different Task Types

■ AI Vision Lock

QYSEA's self-developed Vision Lock function is a pioneer technological feature through the FIFISH APP. Vision Lock feature unleashes a range of intuitive capabilities that keep your subjects securely in focus. By utilizing the Dead Reckoning navigation process, the FIFISH ROV accurately determines the positions of objects and delivers highly stabilized movements to adaptively lock onto subjects in real-time.



■ Intuitive Sonar Array System

The Sonar Array System is a QYSEA patented algorithm that includes the smart distance lock, altitude lock, collision avoidance, and terrain scanning functions. These innovative features are adaptive as well as intuitive to the surrounding underwater environments, enhancing the piloting experience through simplifying and automating certain complexities of the missions.



Distance Lock



Altitude Lock



Smart Collision Avoidance

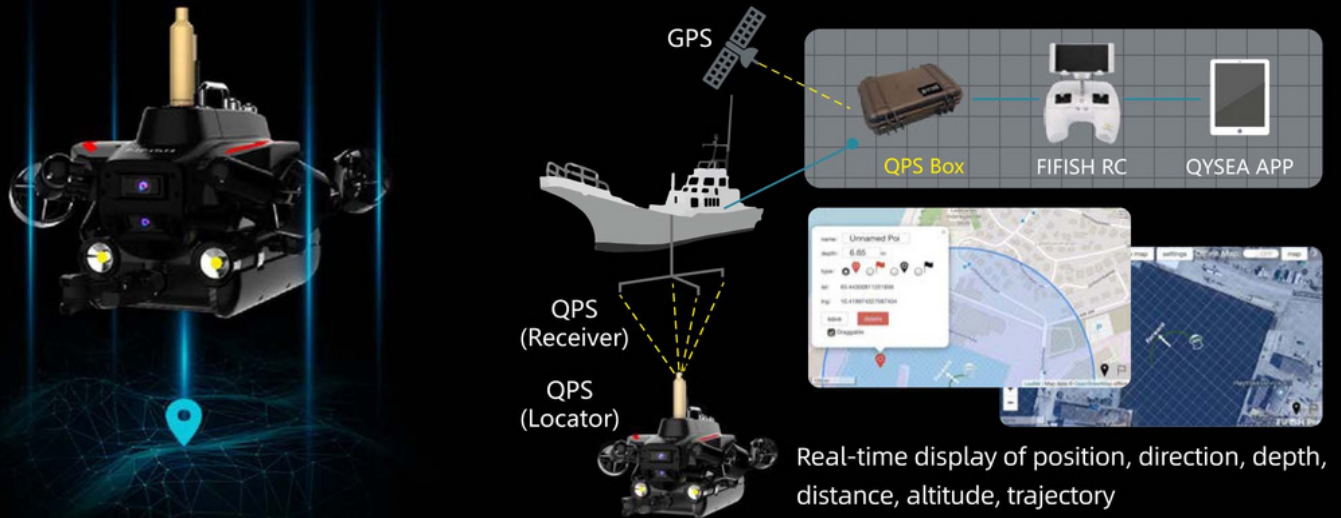


Terrain Scan



■ Real-Time Location Data with The Quick Positioning System (U-QPS)

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



■ High Precision Measuring Tools [Laser Scaler, Distance Lock Module + Compass Ruler]

The Laser Scaler System & 4D Distance Lock Module deliver measurements of underwater objects with high accuracy. For ship inspections, operators can efficiently and precisely measure the scale of cracks and openings to effectively minimize and prevent further chances of damage. Combined with the compass ruler tool, the operator can also physically measure small objects underwater and gather real-time results.



■ Identify Structures & Landscapes with Sonar Imaging

2D and 3D image sonar equipment can be integrated into the FIFISH PRO W6, providing the operator the ability to perform, scan and inspect underwater environments in dark and turbid conditions. Get detailed visual data of the surrounding seabed areas and operate the oceans with great stability and efficiency.



■ Station Lock System

The FIFISH PRO W6's Station Lock algorithm is an adaptive and intuitive system, locking the ROV position underwater and precisely returning to its locked position against any interferences from the underwater environments. Execute and deliver inspections with exceptional stability, smoothness, and precision



■ Innovative Dual 4K Camera

FIFISH PRO W6's Dual 4K Camera System delivers an ultra-wide field of view, facilitates greater efficiency for inspection tasks, as well as provides operators a complete picture of the surrounding underwater environments. The system allows for comprehensive inspections to be performed and, with the FIFISH patented software, the collection of a great range of data is beneficial for professional organizations and teams.

4K Dual Camera System
Pixels: 12 Megapixels
Video resolution: 4K UHD
Signal Format: PAL and NTSC
Lens: Ultra-Wide FOV Lens
Vertical FOV: 100°
Horizontal FOV: 166°
ISO: 6400 (Max)
Lights: 12,000 Lumen LEDs



■ Q-Motor | An Innovative & Powerful Motor System within a Compact Build

QYSEA's self-developed Q-Motor is a double closed-loop induction motor system that achieves autonomous control, strong depth resistance with high stabilization, as well as improved energy efficiency. The six-motor system arrangement utilizes intelligent algorithms to actively adapt to its surroundings, delivering highly stable and smooth mobility for its ROV users.



■ Powerful & Removable Lithium Battery

Standard 388Wh removable battery which can be replaced at any time can perform long-time underwater operations, and the battery supports quick charging mode, which can be charged 70% in one hour.



■ Onshore Power Supply System (OPSS) [Optional Add-on]

W6 adopts Explore and work at greater distances with ease. The OPSS is a simultaneous operating and charging system delivering enhanced operation lengths and uninterrupted diving sessions.



■ FIFISH PRO W6 Standard Package



Robotic Arm Module
(Replaceable Claw)



ROV Charger x 2



Remote Controller



Remote Controller
Power Adaptor



Rugged
Industrial Case



305m Tether Reel with
Hard Case



5 Q-Interfaces for
Payload Integration



Communication
Tether (3m)

Application Scenarios



Accessories

Remote System Control [4G/ 5G/ Broadband Network]

WINDOWS APP

MAC APP

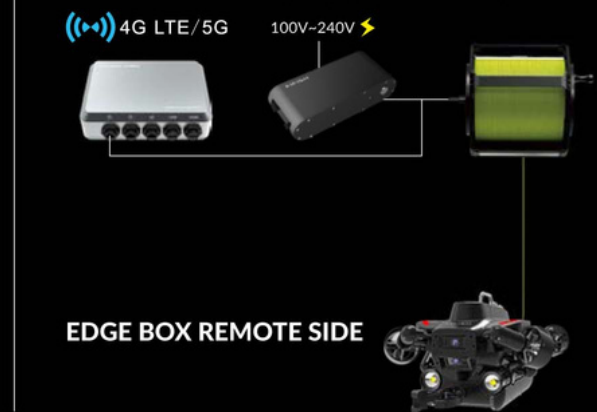
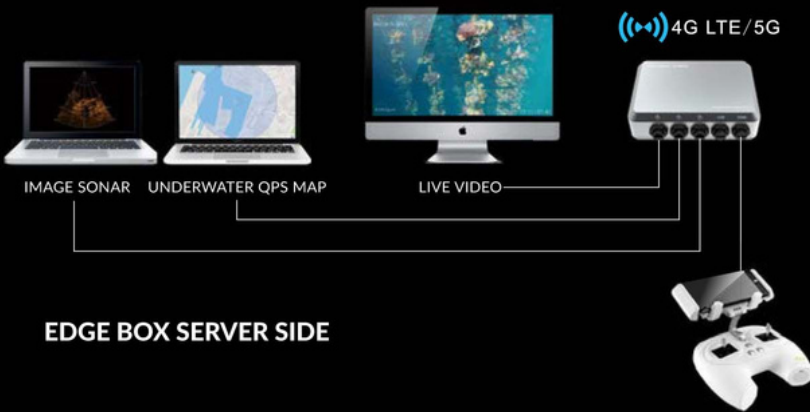
MAC APP

EDGE BOX SERVER

EDGE BOX REMOTE

ONSHORE POWER SUPPLY SYSTEM

305m TETHER AND REEL



※ Product specifications & accessories are subject to change without notice. Please contact QYSEA and its partners for more details.



■ ROV

Dimensions	700mm x 469mm x 297mm
Weight	23kg
Thrusters	6 Thrusters (FIFISH Q-Motor Technology)
Maneuverability	6 Degrees of Freedom
	Movement: left & right, up & down, forward & backward Rotation: 360° pitches, 360° rolls, 360° yaws
Posture Lock™	Lock the ± 0.1° pitch or roll angle, in any direction
Hovering	Keep the ROV suspending in ± 1 cm
Current Resistance	Stable hover & control in 3.0 knot (1.5 m/s) currents
Depth Rating	350 Meter
Temperature Range	-10 °C ~ 40 °C
Battery	Dive Time: 6 Hours (Depending on usage scenario)
	Rated Capacity: 388.8Wh
	Charge Voltage: 25.2V, 1.5 Hour Quick Charge
	Li-ion Panasonic 18650
Sensor	Accelerometer, Gyroscope, Electronic Compass
	Temperature Transducer
	Depth Transducer

■ LED LIGHTS

Brightness	12000 Lumens LED
CCT	5500 K (Correlated Color Temperature)
Beam Angle	120°
Levels	3 Brightness Levels

■ ROBOTIC ARM

Grip	20kgf
Supply Voltage	10~26V
Maximum Current	3A
Maximum grasping diameter	125mm

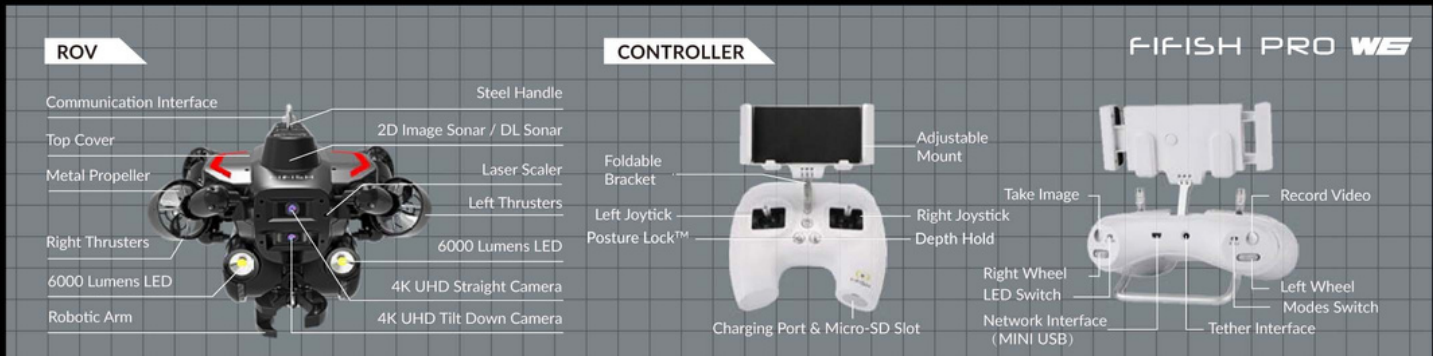
■ DISTANCE LOCK, ALTITUDE LOCK SONAR SYSTEM

Detection range	0.4 - 7.0m
Precision	+/-5cm

FIFISH PRO W6 Web Page: <https://www.qysea.com>

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■ COMPONENT BREAKDOWN



■ CAMERA

Sensor	1/2.3" SONY CMOS
Pixels	12MP
ISO Range	100-6400 In Auto / Manual
Lens	Field of View: 166°
	Aperture: f/2.5 Minimum Focusing Distance: 0.4 m
Shutter Speed	5~1/5000 Second
Burst Shooting	3 / 5 / 10 / 15 Frames
White Balance	2500K-8000K
Exposure Comp.	- 3.0 EV ~ + 3.0 EV
Photo Resolution	4:3: 4000 x 3000
Photo Format	JPEG, RAW in DNG
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 Format	MPEG4- AVC/H.264, HEVC/H.265
Stabilization	EIS (Electronic Image Stabilization)
Colour Encoding	NTSC & PAL
Internal Storage	128GB*2 standard, support up to 512GB

■ CONTROLLER

Wireless	5GHz WiFi, 11a, n, ac
Battery Life	Up to 4 hours
SD Card Support	MicroSD Card FAT32 & EXFAT Format (to 128GB)
HDMI Output	QYSEA HDMI Output Box

■ CHARGER

ROV	Input: 100-240 V, 50/60 Hz, 3A MAX
	Output: 25.2V = 6A
RC	Input: 100-240 V, 50/60 Hz, 0.5A MAX
	Output: 5 V = 3A

■ LASER RULER

Laser Tube Type	Spot Laser
Wavelength	650nm (Red)
Scale Length	10cm

■ TETHER

Length	305m standard
Breaking Force	160kgf
Tether Diameter	6.0mm

UK & IRELAND DISTRIBUTOR

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