QYSEA

FIFISH W6 NAVI brochure

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Manufacturer: QYSEA

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Official source

https://www.qysea.com/products/fifish-w6-navi/

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QYSEA

Maritime ROV

Inspection · Measurement · Survey

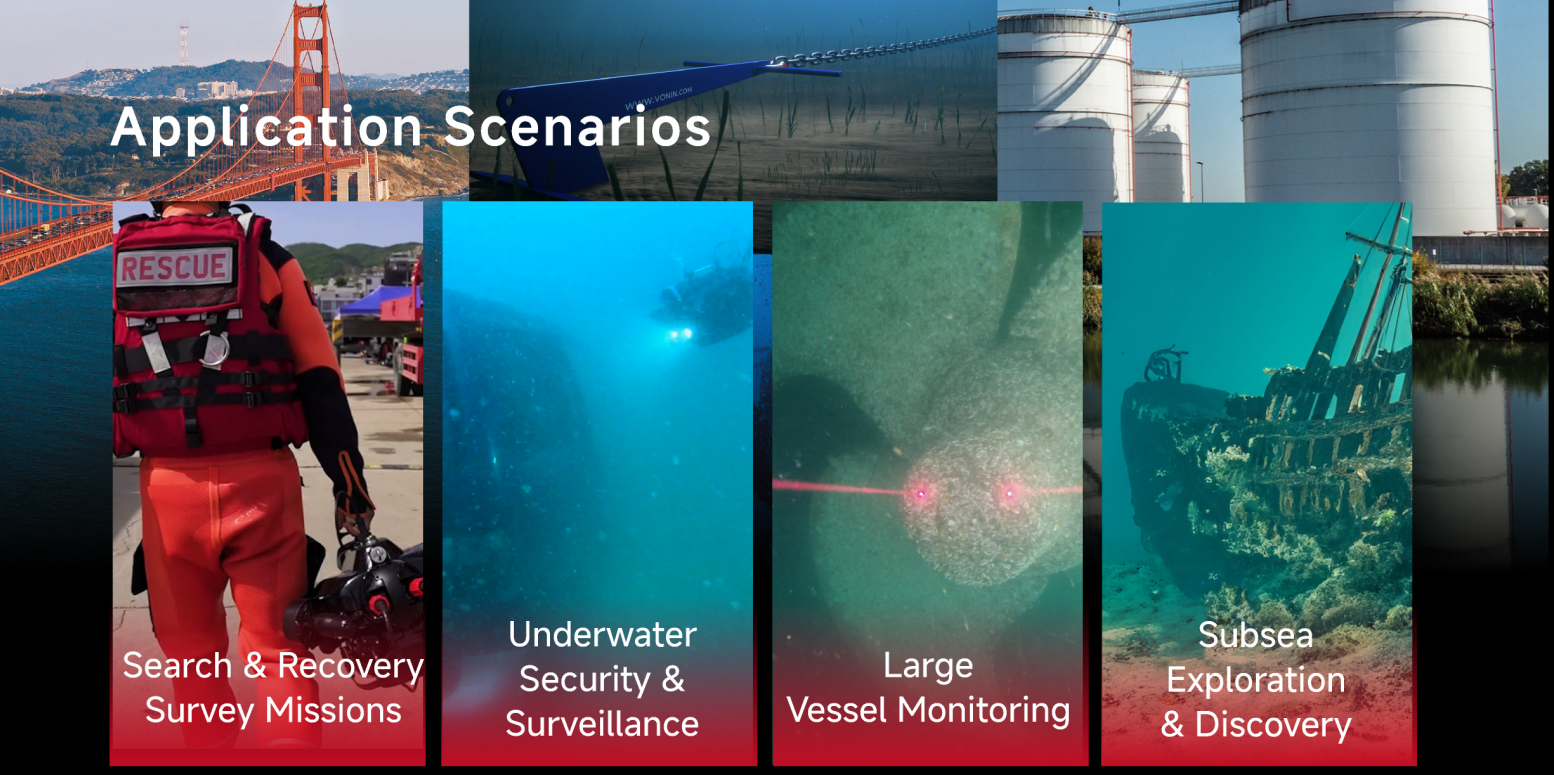
W6 NAVI



Survey · Search · Recover

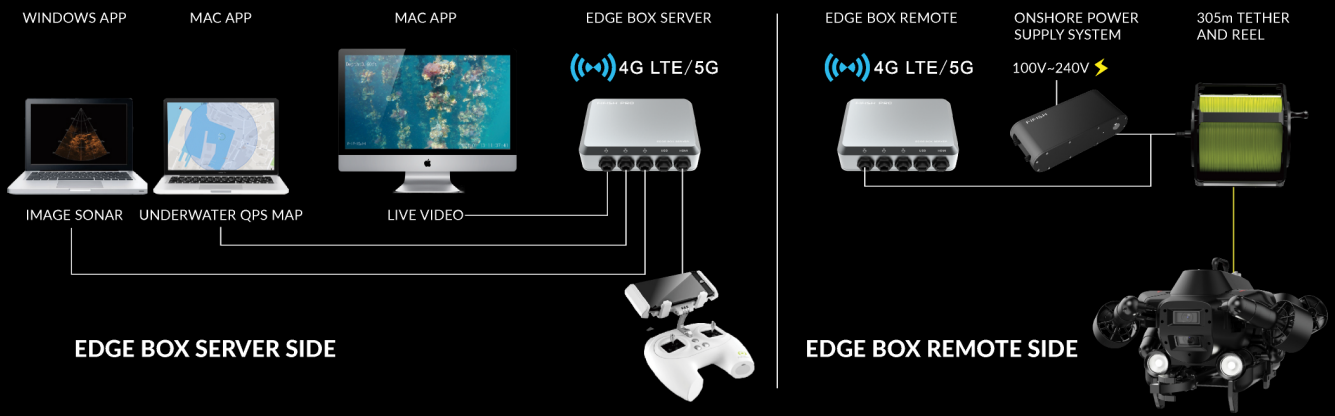
BRINGING THE OCEAN WITHIN REACH

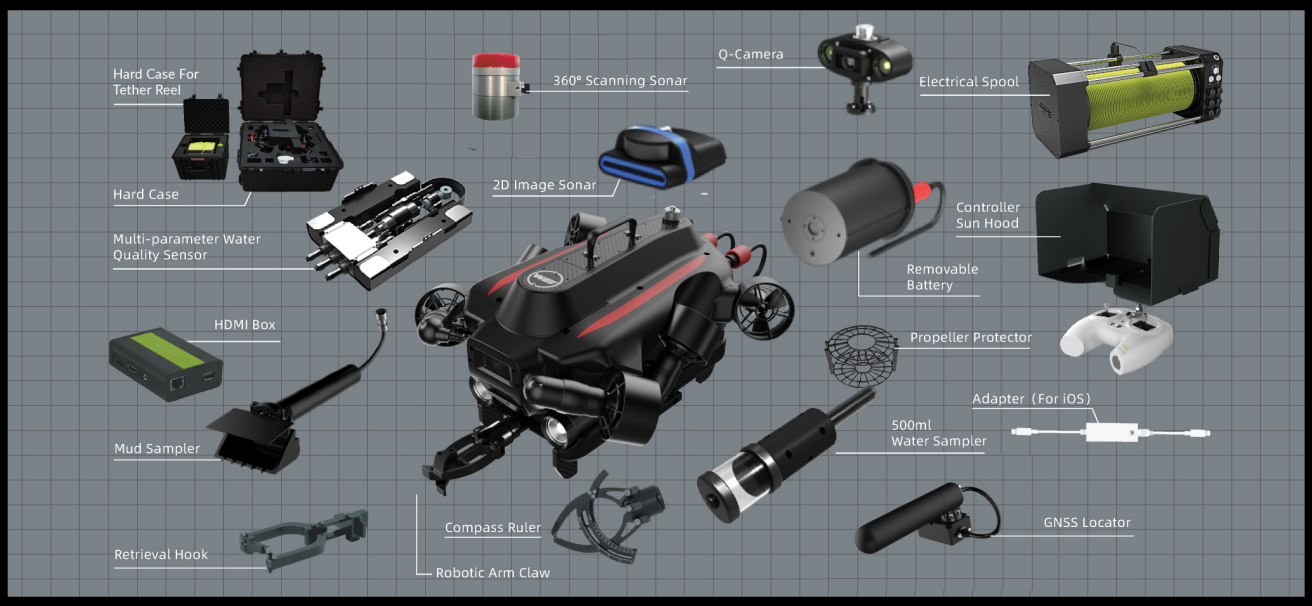
Application Scenarios



Add-on Accessories

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





Enhanced Stability for Missions

Q-DVL | Station Lock Hovering

QYSEA W6 NAVI's built-in Q-DVL is an adaptive and intuitive system, locking the ROV position underwater and precisely returning to its locked position against underwater interference and challenging operating conditions. Execute and deliver inspections with exceptional stability, smoothness, and precision.



Altitude Locking



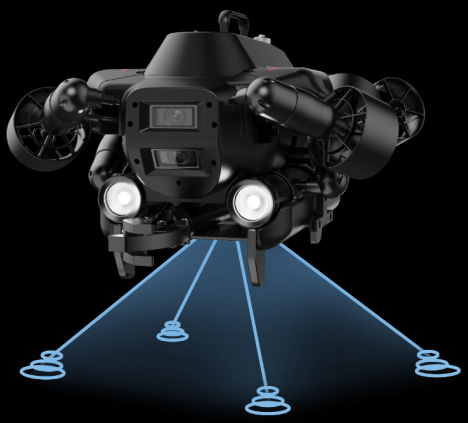
Bathymetric Mapping



Altitude Tracking



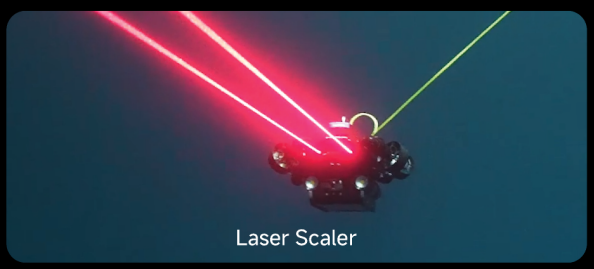
Downward Collision Avoidance



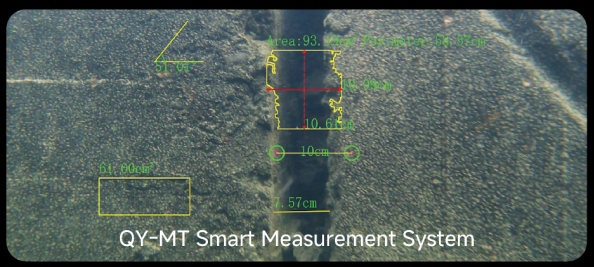
Intuitive Measurement Tools

QY-MT | Smart Measurement Tool

W6 NAVI's built-in laser scaler, paired with QYSEA's measurement software, enables precise measurements essential for search and rescue operations. It measures length, width, area, perimeter, and angles with centimeter-level accuracy, allowing professionals to identify structural defects, log data, and conduct evaluations that enhance rescue efforts and ensure safety.



Laser Scaler

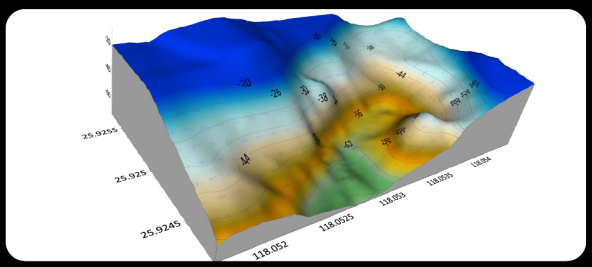


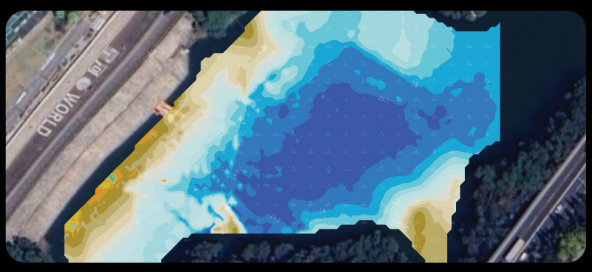
QY-MT Smart Measurement System

Precise Mapping Systems

QY-BT | Smart Bathymetric Mapping

QYSEA W6 NAVI's integrated Q-DVL provides stable maneuverability and precise measurements for underwater mapping, crucial for search and rescue operations. Operators can set automated paths to capture seabed depths, export data, and generate 2D/3D maps, enabling rapid assessments and enhancing situational awareness in emergencies with post-processing software.





Identify Objects & Landscapes with Advanced Sonar Imaging (Optional)

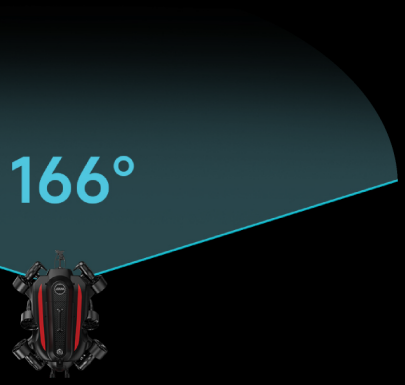
2D imaging sonar equipment can be integrated into the W6 NAVI, enabling operators to scan and inspect underwater environments in dark and turbid conditions. This technology provides detailed visual data of surrounding seabed areas, enhancing situational awareness and facilitating effective navigation and operations in rescue scenarios with great stability and efficiency.



Dual 4K Camera System

QYSEA W6 NAVI's Dual 4K Camera System offers an ultra-wide field of view, enhancing inspection efficiency and providing operators with a complete underwater picture. Its comprehensive capabilities, coupled with QYSEA's patented software, facilitate extensive data collection, benefiting professional organizations and teams.

4K Dual Camera System
Pixels: 12 Megapixels
Video resolution: 4K UHD
Lights: 12,000 Lumen LEDs
Lens: Ultra-Wide FOV Lens
Above Water: 166°
Underwater: 96°



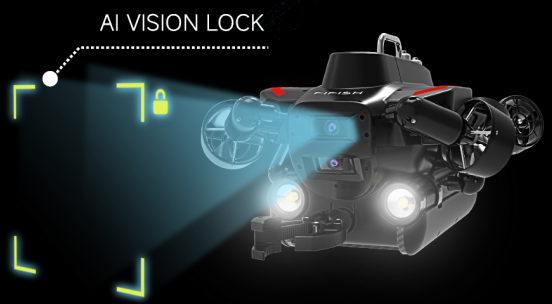
Q-Motor | Compact Powerhouse Motor

QYSEA's Q-Motor is a double closed-loop induction motor system, offering autonomous control, strong depth resistance, and improved energy efficiency. Its six-motor configuration, supported by intelligent algorithms, provides highly stable and smooth mobility for ROV users.



AI Vision Lock

QYSEA's self-developed Vision Lock, available through the QYSEA APP, is a pioneering feature that keeps subjects securely in focus. Using Dead Reckoning navigation, the QYSEA W6 NAVI precisely determines object positions and delivers stabilized, real-time adaptive visual locking.

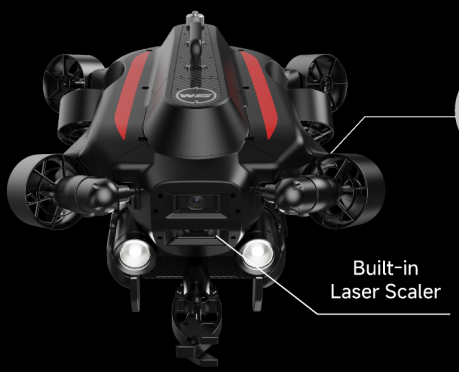


Removable Lithium Battery

QYSEA W6 NAVI is equipped with a 388.8Wh removable battery that can be replaced at any time, enabling extended underwater operations. The battery supports a quick charging mode, reaching 70% charge in just one hour.



W6 NAVI Standard Package




Q-DVL


Robotic Arm Module
(Replaceable Claw)


Remote Controller


ROV & RC Chargers


Rugged
Industrial Case


305m Tether Reel
with Hard Case


4 Q-IF for
Payload Integration


Communication
Tether (3m)

Survey & Inspect · Rescue & Recovery
Maritime ROV

QYSEA W6 NAVI

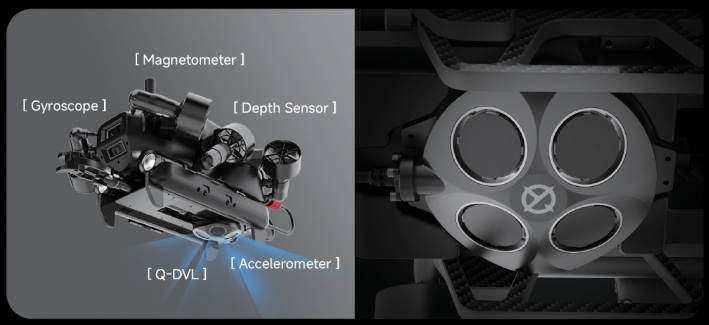
QYSEA W6 NAVI is a Maritime ROV designed for search and rescue applications, reaching depths of 350 meters with powerful propulsion and stability in strong currents. Its modular design and multiple port interfaces allow for quick component replacement and accessory switching, ensuring efficient, precise, and reliable operations.



Advanced Underwater Navigation

U-INS | Underwater Inertial Navigation System

Leveraging QYSEA's AI algorithm for enhanced functionality, W6 NAVI integrates multiple internal sensors to enable relative station locking, navigation planning, path tracking, and bathymetric surveys for underwater inspections and missions.

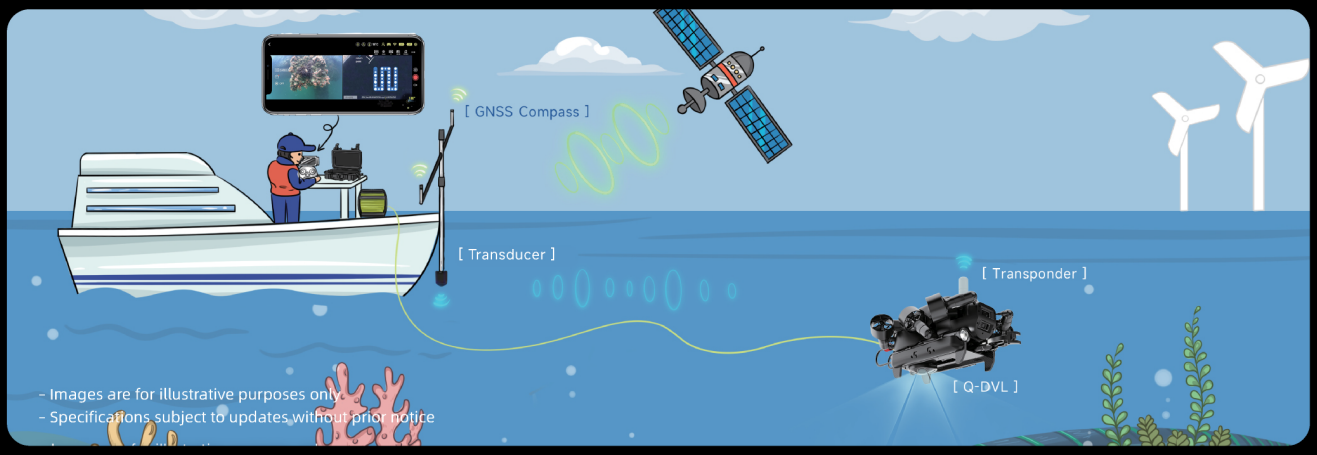


Advanced Global Positioning

U-QPS | Underwater Quick Positioning System

U-QPS2 is a software and hardware ecosystem that delivers a detailed map of the W6 NAVI's real-time position, POI recordings, dynamic dive paths, and precise subsea mission planning, enhancing control and operational capabilities for the ROV pilot.

- One-click Return
- Mark Points of Interest
- Subsea Mission Planning
- Underwater Real-time Positioning



* The GNSS Compass, Transducer & Transponder for global positioning is a separate add-on for W6 NAVI

W6 NAVI Specifications

ROV

Dimensions	710 mm (L) x 490 mm (W) x 339 mm (H)
Weight	23.4 kg
Depth Rating	350 m
Payload	10 kg
Speed	>3 knots (>1.5m/s)
Propellers	6 Propellers, Hard Anodized Aluminum Alloy
	6 Degrees of Freedom
	Movement: left & right, up & down,forward & backward, 360° yaw, 360° pitch, 360° roll
Operating Temp.	-10 °C ~ 60 °C (Operational Temp. Range)
Power	1-4 h (Dependent on Work Environment)
	388.8Wh Capacity
	Quick Charging: Full Power in 1.5 h (Actual Charging Speed May Differ)
Navigation	Underwater Inertial Navigation System (U-INS)

Sensors

Downward DVL	Detection range: 0.1-100 m	Station Lock & Collision Avoidance
Gyroscope	±0.1°	Posture Lock: ± 0.1° pitch angle or ± 0.1° roll angle, in any direction
Accelerometer	±0.1°	
Magnetometer	±1°	
Depth Sensor	Suspension within ±1 cm	Depth Lock
Temp. Sensor	±1°	Smart Measurement
Laser Scaler	Wavelength: 660 nm (Red)	
	Type: Dual Spot Laser	
	Distance: 10 cm	

Q-DVL (Distance/Speed Sensor)

Dimensions	130 mm (L) x 154 mm (W) x 34.5 mm (H)
Weight	840 g in Air, 550 g in Water
Velocity Resolution	0.1 mm/s
Communication	100-BaseT Ethernet & Serial (UART 921600 Baud)
Min. Altitude	10 cm
Max. Altitude	100 m

Robotic Arm

Grip Strength	20 kgf
Supply Voltage	10V-26V
Max. Current	3A
Grip Size	125 mm

Charger

ROV	Input: 100-240 V, 50/60 Hz， 3A MAX
	Output: 25.2V ⎓ 6A * 2
Controller	Input: 100-240V, 50/60 Hz, 0.5A MAX
	Output: 5V ⎓ 3A

※ Specifications are subject to change without prior notice.
Please contact QYSEA for detailed parameters.

Camera

Quantity	Dual 4K Camera System
Sensor	1/2.3" CMOS
Pixels	12 MP
Aperture	f/2.5
Field of View	Above Water: 166° / Underwater: 96°
Focus Range	0.3m~+∞
Shutter Speed	5-1/5000 Second
Burst Shooting	1/3/5/10 Frames
ISO	100–3200 (Auto/Manual)
White Balance	2500K-7500K (Seawater/Freshwater, Auto/Manual)
Exposure Comp.	-3.0 EV to +3.0 EV (Auto/Manual)
Photo Resolution	4:3 = 4000 × 3000 / 16:9 = 3840 × 2160
Photo Format	JPEG, 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 Encode	H.264
Video Format	MP4
Stabilization	Electronic Stabilization (EIS)
Color System	NTSC & PAL
Internal Storage	Built-in Storage(128GB*2 Standard, Upgradeable to 256/512GB*2)
AI Functions	Vision Lock

Lighting

Brightness	6000 Lumen LED * 2
CCT	5,500 K
Beam Angle	120°
Brightness Levels	3

Controller

Wireless Network	5 GHz Wi-Fi: 802.11a/n/ac
Usage Time	Up to 4 hours
Download Format	FAT32 & EXFAT (256GB Max. Storage Support)
HDMI Output	HDMI Box Required

Tether Spool

Cable Length	305 m
Tensile Strength	200 kgf
Cable Diameter	6 mm
Tether Weight	Neutral Buoyancy (Underwater)

Port Interface

Quantity	4
Material	Stainless steel 316
Interface	24V @ 5A ETHERNET, UART
Adjustable Power	Adaptive Voltage Range for External Add-on Accessories
Secure Plug	Self-diagnostic Tests & Leakage Prevention

Connect with QYSEA

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