QYSEA

FIFISH W6 NAVI technical specifications

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Manufacturer: QYSEA

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Original manufacturer pages follow unchanged. Product configuration and technical limits are defined by the manufacturer document.

Official source

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

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FIFISH W6 NAVI
Technical Specifications



ROV

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

Sensors

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

Camera

Quantity	Dual 4K Camera System
Sensor	1/2.3" CMOS
Pixels	12MP
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 (for Seawater & Freshwater, Auto/Manual)
Exposure Compensation	-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 Vision Functionality	Vision Lock

Lighting

Brightness	6000 Lumen LED * 2
CCT	5500K
Beam Angle	120°
Brightness Levels	3

Please contact the QYSEA team for more details; specifications are subjected to change without notice.

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Charger

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

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

Robotic Arm

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

Controller

Wireless Network	5GHz WiFi: 802.11a/n/ac
Usage Time	Up to 4 hours
File Download Format	MicroSD Card: FAT32 & EXFAT (128GB Max. Storage Support)
HDMI Output	HDMI Box Required

Tether & Spool

Cable length	305m
Tensile strength	200kgf
Cable diameter	6mm
Tether Weight (Underwater)	Neutral Buoyancy

Q-DVL

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

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