QYSEA

FIFISH X1 technical specifications

Distributed by ROVITEC AS

rovitec.no

Manufacturer: QYSEA

Document: datasheet | Revision not stated

Source checked: 15 September 2026

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

Official source

https://www.qysea.com/products/fifish-x1/

Manufacturer content and copyright retained. Local distribution copy.

FIFISH X1
Technical Specifications



ROV

Dimensions	770mm(l) x 560mm(w) x 400mm(h)
Weight	≤30 kg
Depth Rating	350m
Payload	15kg
Speed	Forward: 4.5 knots
	Reverse: 3.5 knots
	Lateral: 2.5 knots
	Vertical: 1.5 knots
Current Hold	Up to 4.0 knots (2.0 m/s)
Maneuverability	Six Degrees of Freedom
	Direction: Lateral (Left/Right), Vertical Up/Down), Forward/Backward
	Rotation: 360° Roll, 360° Pitch, 360° Yaw
Propellers	Propeller Material: Aluminum alloy with hard anodized finish
	Quantity: Six arranged in a vector configuration
	Forward Thrust: 30 kg, Reverse Thrust: 24 kg, Lateral Thrust: 15 kg, Vertical Thrust: 21 kg
Operating Temp.	-10 °C ~ 50 °C
Navigation	Underwater Integrated Navigation and Positioning System (U-INS+)
Transportation	Dedicated Flight Case (with Wheels)

Dual DVL & IMU sensors

Downward DVL	Detection range: 0.1m-100m	Station Lock & Collision Avoidance
Forward DVL	Detection range: 0.15m-10m	
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°	

Dual LED & Dual Laser

Brightness	6000 Lumen LED * 2	
CCT	5500K	
Beam Angle	120°	
Brightness Levels	3	
Dual Laser Scaler	Type: Dual Spot Laser	Smart Measurement
	Wavelength: 660nm (Red)	
	Distance: 10cm Apart	

Dual Camera System

Quantity	Dual 4K Camera System
Front Camera	Aperture: f/2.5
	FOV-Vertical (Underwater): 69°
	FOV-Horizontal (Underwater): 120°
	FOV-Diagonal (Underwater): 146°
	Focus Range: 0.1m~ ∞
Lower Camera	Aperture: f/1.8
	FOV-Vertical (Underwater): 52°
	FOV-Horizontal (Underwater): 87°
	FOV-Diagonal (Underwater): 96°
	Focus Range: 0.3m~ ∞
Sensor	1/1.8" CMOS
Features	Simultaneous Multi-View Display / Instant View Switching
Pixels	12 MP
Shutter Speed	5-1/5000 Second
Burst Shooting	1/3/5/10 Frames
ISO	100–6400 (Auto/Manual)
White Balance	2800–9000K (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: 25/30/50/60/75/90 fps
	720P HD: 25/30/50/60/75/90 fps
Video Encode	H.264
Video Format	MP4 (AVC)
Stabilization	Electronic Stabilization (EIS)
Color System	NTSC & PAL
External Storage (Removable SD Card)	External TF Card, FAT32 File System (128GB*2 Standard, Upgradeable to 256/512GB*2)

FIFISH X1
Technical Specifications



Direct Power Supply | Surface Unit

Dimensions	460mm(l) × 360mm(w) ×190mm(h)
Weight	8.4kg
AC Power Input	AC 110V / 220V
Max. Surface Power Output	2.2 kW
Protection Level	IP55 (Lid Opened) IP66 (Lid Closed)

Direct Power Supply | Underwater Unit

Dimensions	130mm(l) × 130mm(w) ×260mm(h)
Weight	3.8kg
Input Voltage:	700–800V DC
Output Voltage:	29.2V
Maximum Output Power:	1.8 kW
Depth Rating	350m

AI Tools

QY-MT	QYSEA Measurement Tool (with built-in laser scaler)
QY-BT	QYSEA Bathymetric Tool (with optional Echosounder add-on)
U-INS Plus	Underwater Inertial Navigation System (with built-in dual DVLs, and optional GNSS compass add-on)
Vision Lock	Vision-Based Intelligent Subject Locking
Visual Enhancement	Image De-Hazing & Plankton Filtering

Control Console | Q-iRC

Wireless Network	2.4GHz & 5GHz WiFi: 802.11 a/b/g/n/ac
Weight	1420g
Usage Time	Up to 8 hours
Screen Size	7 Inches
Brightness	1,500 nits
Protection Level	IP54
External Ports	TF*1、Ethernet*1、HDMI*1、USB-A*1、Type-C*1，ROV*1
Customization	8 Customizable Buttons
Storage	LPDDR4x 4GB RAM + 64GB eMMC Storage

Tether & Spool

Cable length	350m
Cable diameter	9.5mm
Tensile strength	300kgf
Spool Dimension	600mm(l) × 430mm(w) × 540mm(h)
Spool Weight	53kg
Protection Level	IP66
Transportation	Dedicated Flight Case (with Wheels)

Port Interface

Quantity	4
Material	Stainless Steel 316
Interfaces	29V @ 5A ETHERNET, UART
Adjustable Power	Adaptive Voltage Range for External Add-on Accessories
Secure Plug	Self-diagnostic Tests & Leakage Prevention

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

QYSEA