









1. Best Buy Aquaculture ROVs



ROV MODEL IMAGE	QYSEA – FIFISH V6 EXPERT	BLUEROBOTICS - BLUEROV2	QYSEA – FIFISH V6s
			
	<small>Image from: www.qysea.com</small>	<small>Image from: www.bluerobotics.com</small>	<small>Image from: www.qysea.com</small>
DEPTH RANGE [m]	100	100	100
DIMENSIONS [mm]	383 x 331 x 143	457 x 338 x 254	383 x 331 x 143
WEIGHT [kg]	4.6	11-12	4.1
SPEED	1.5 m/s	1.5 m/s	1.5 m/s
RUN-TIME	Power Supply (no battery life)	2 HOURS (normal use) / 6 HOURS (light use) If operated with power supply (no battery life)	Power Supply (no battery life)
BATTERY	156 Wh Onshore Power Supply System (optional, 200M tether)	18Ah battery – Power Supply	156 Wh Onshore Power Supply System (optional, 200M tether)
THRUSTERS	powered by 6 thrusters which provide incredible manoeuvrability	6 POWERFUL T200 THRUSTERS – 4 Vectored – 2 Vertical	powered by 6 thrusters which provide incredible manoeuvrability
THETHER [m]	100-300	300	100-300
SENSORS	*OPTIONAL* Dissolved Oxygen Sensor Salinity Sensor Turbidity Sensor pH Sensor Compass Ruler Laser Scaler Distance Meter	3-DOF Gyroscope 3-DOF Accelerometer 3-DOF Magnetometer Internal barometer Blue Robotics Bar 30 Pressure/depth and Temperature Sensor Current and Voltage Sensing Leak Detection	OPTIONAL Dissolved Oxygen Sensor Salinity Sensor Turbidity Sensor pH Sensor Compass Ruler Laser Scaler Distance Meter
STORAGE CAPACITY	64 GB	unlimited	128 GB
CAMERA RESOLUTION	4K	1080px	4 K
FOV	166°	110°	166°
DRONE CONTROLLER	REMOTE CONTROL SYSTEM	BlueOS-REMOTE CONTROL	REMOTE CONTROL SYSTEM
LINK	WEBSITE	WEBSITE	WEBSITE
WARANTY	1 year	90 days	1 year
AI VIDEO ANALYSIS SOFTWARE	NO	NO	NO
COMPATIBLE WITH KARMENstudio AI video anaysis software	Biofouling on nets, Holes detection, 100% inspection coverage, Fish Mortality, Counting fish in transfer, Food waste, Custom solutions	Biofouling on nets, Holes detection, 100% inspection coverage, Fish Mortality, Counting fish in transfer, Food waste, Custom solutions	Biofouling on nets, Holes detection, 100% inspection coverage, Fish Mortality, Counting fish in transfer, Food waste, Custom solutions
SOFTWARE	FIFISH MOBILE APP provides following features: – real-time transmission of depth, direction data, and camera parameters – one-button control for shooting, recording & saving photos or videos – adjustable focus and macro mode – replays photos or videos at any time – downloads original 4K video with high resolution	BlueOS platform: BlueOS-modular is a robust, and efficient platform for managing a vehicle or robot from its onboard computer.	FIFISH MOBILE APP provides following features: – real-time transmission of depth, direction data, and camera parameters – one-button control for shooting, recording & saving photos or videos – adjustable focus and macro mode – replays photos or videos at any time – downloads original 4K video with high resolution

2. Heavy Duty Aquaculture ROVs




ROV MODEL IMAGE	HASING - M2 ROV	CHASING - M2 ROV PRO	MISSION SPECIALIST DEFENDER ROV
 <small>Image from: www.chasing.com</small>	 <small>Image from: www.chasing.com</small>	 <small>Image from: www.videoray.com</small>	
DEPTH RANGE [m]	100	150	1000
DIMENSIONS [mm]	380 x 267 x 165	480 x 267 x 165	751.6 x 393.7 x 266.7
WEIGHT [kg]	4.5	5.7	32.5
SPEED	1.5 m/s (3 knots)	1.5 m/s (3 knots)	over 2.2 m/s (4.4 knots)
RUN-TIME	2-4 hours	up to 4h	Power Supply (no battery life)
BATTERY	97.68 Wh	302.4 Wh	no battery
THRUSTERS	8 VECTORED-THRUSTERS LAYOUT, OMNI MOVEMENT	8 VECTORED-THRUSTERS LAYOUT, OMNI MOVEMENT	4 VECTORED HORIZONTAL THRUSTERS 3 VERTICAL THRUSTERS
THEETHER [m]	100 or 200	200	400-1000
SENSORS	Inertial Measurement Unit (IMU) with 3-axis gyro and 3-axis accelerometer. Depth sensor Temperature sensor	Inertial Measurement Unit (IMU) with 3-axis gyro and 3-axis accelerometer. Depth sensor Temperature sensor	9 DOF IMU and Magnetic Compass Pressure based depth sensor Roll&Pitch Yaw Gyro Biass stability
STORAGE CAPACITY	512 GB	512 GB	unlimited
CAMERA RESOLUTION	4K 3840 x 2160 / (30fps)	4K 3840 x 2160 / (30fps)	1920 x 1080 / 25fps
FOV	152°	152°	180°
DRONE CONTROLLER	Wireless drone controller for iOS and Android smartphones and tablets	Wireless drone controller for iOS and Android smartphones and tablets	OPERATOR CONTROL CONSOL (OCC)
LINK	WEBSITE	WEBSITE	WEBSITE
WARANTY	2 years	2 years	2 years
AI VIDEO ANALYSIS SOFTWARE	NO	NO	NO
COMPATIBLE WITH KARMENstudio AI video anaysis software	Fish Mortality , Counting fish in transfer , Food waste , Custom solutions + skillful operator	Fish Mortality , Counting fish in transfer , Food waste , Custom solutions + skillful operator	Fish Mortality , Counting fish in transfer , Food waste , Custom solutions + skillful operator
SOFTWARE	Android or IOS application is designed for: controlling ROV live streaming taking snapshots recording videos setting camera settings while ROV is underwater	Android or IOS application is designed for: controlling ROV live streaming taking snapshots recording videos setting camera settings while ROV is underwater	OPERATOR CONTROL CONSOL (OCC) provides tools for operating ROV allows recording and streaming of the video enables users to set photo/video parameters Workspace allows operators to use a single-screen interface to easily direct and maneuver ROV, and quickly adapt to changing mission objectives. Supports multiple devices and configurations.


2. Heavy Duty Aquaculture ROVs

ROV MODEL IMAGE	MISSION SPECIALIST PRO 5	Saab Seaeye – Falcon	DEEP TREKKER - REVOLUTION ROV
 <small>Image from: www.videoray.com</small>	 <small>Image from: www.saabseaeye.com</small>	 <small>Image from: www.deeptrekker.com</small>	
DEPTH RANGE [m]	305	300	305
DIMENSIONS [mm]	496 x 347 x 223	1000 x 500 x 600	440 x 235 x 717
WEIGHT [kg]	25.2	60	26
SPEED	over 2.2 m/s (4.4 knots)	1.5 m/s (3 knots)	1.5 m/s (3 knots)
RUN-TIME	Power Supply (no battery life)	Power Supply (no battery life)	3-6 working hours
BATTERY	no battery	POWER SUPPLY	19.2 VDC
THRUSTERS	2 VECTORED HORIZONTAL THRUSTERS 1 VERTICAL THRUSTERS	5 HRUSTERS – 4 Horizontal – 1 Vertical	6X INDEPENDENT CONTROL INFINITELY VARIABLE 100% REVERSIBLE
THETHER [m]	400-2000	450	300
SENSORS	9 DOF IMU and Magnetic Compass Pressure based depth sensor Roll&Pitch Yaw Gyro Biass stability	AUTOPILOT (auto depth and heading, auto altitude, station keeping and fine posititon control)	Intelligent sensor package complete with water temperature, battery leves, auto depth and auto heading
STORAGE CAPACITY	unlimited	unlimited	limited by SD capacity
CAMERA RESOLUTION	1920 x 1080 / 25fps	HD CAMERA high resolution colour camera	FULL HD 1080p/30fps
FOV	180°	-	260 °(TOTAL RANGE OF VIEW)*
DRONE CONTROLLER	OPERATOR CONTROL CONSOL (OCC)	Saab Seaeye's iCON	Wireless drone controller for iOS and Android smartphones and tablets
LINK	WEBSITE	WEBSITE	WEBSITE
WARANTY	2 years	2 years	1 year
AI VIDEO ANALYSIS SOFTWARE	NO	NO	NO
COMPATIBLE WITH KARMENstudio AI video anaysis software	Fish Mortality , Counting fish in transfer , Food waste , Custom solutions + skillful operator	Fish Mortality , Counting fish in transfer , Food waste , Custom solutions + skillful operator	Fish Mortality , Counting fish in transfer , Food waste , Custom solutions + skillful operator
SOFTWARE	OPERATOR CONTROL CONSOL (OCC) provides tools for operating ROV allows recording and streaming of the video enables users to set photo/video parameters Workspace allows operators to use a single-screen interface to easily direct and maneuver ROV, and quickly adapt to changing mission objectives. Supports multiple devices and configurations.	Saab Seaeye iCON Software provides real time system control and feedback from the heart of every subsystem.	Bridge Technology Bridge software enables the operator to observe underwater objects/fish and record data from sensors using a handheld controller. If positional sensors such as USBL are added, the operator can locate the ROV position via Google Maps. BRIDGE software supports integration of other sensors.

ROV MODEL	Subsea Tech MINI TORTUGA	DEEP TREKKER - PIVOT ROV
IMAGE	 <small>Image from: www.subsea-tech.com</small>	 <small>Image from: www.deeptrekker.com</small>
DEPTH RANGE [m]	300	305
DIMENSIONS [mm]	672 x 310 x 381	576 x 360 x 313
WEIGHT [kg]	19	17
SPEED	2 m/s (4 knots)	1.5 m/s (3 knots)
RUN-TIME	Power Supply (no battery life)	up to 3h
BATTERY	Power Supply	19.2 VDC
THRUSTERS	Horizontal thrusters: 4 x 5.0 kgf manually adjustable thrusters with 80 mm propellers and protection nozzles. Vertical thrusters: 2 x 5.0 kgf vertical thrusters with 80 mm propellers	6 THRUSTERS
THETHER [m]	300	100/200/300 meters
SENSORS	Compass, pressure (depth) sensor	depth, heading, pitch, roll, turns count, temperature
STORAGE CAPACITY	Data saved on integrated PC	limited by SD capacity
CAMERA RESOLUTION	Full HD video camera (1920 x 1080 p)	4K
FOV	-	-
DRONE CONTROLLER	Compass, pressure (depth) sensor	BRIDGE TECHNOLOGY
LINK	WEBSITE	WEBSITE
WARANTY	2 years	1 year
AI VIDEO ANALYSIS SOFTWARE	NO	NO
COMPATIBLE WITH KARMENstudio AI video analysis software	Fish Mortality , Counting fish in transfer , Food waste , Custom solutions + skillful operator	Fish Mortality , Counting fish in transfer , Food waste , Custom solutions + skillful operator
SOFTWARE	Hawk System Designed for analog CCTV networks, LYYN Hawk System is a 19" rack-mounted solution providing real-time video enhancement.	Bridge software enables the operator to observe underwater objects/fish and record data from sensors using a handheld controller. If positional sensors such as USBL are added, the operator can locate the ROV position via Google Maps. BRIDGE software supports integration of other sensors.

3. Budget Aquaculture ROVs

ROV MODEL IMAGE	DEEP TREKKER - DTG3 PACKAGE	BLUEYE ROBOTICS - BLUEYE X3	BLUEYE ROBOTICS - BLUEYE PRO
 <small>Image from: www.deeptrekker.com</small>	 <small>Image from: www.bluerobotics.com</small>	 <small>Image from: www.bluerobotics.com</small>	
DEPTH RANGE [m]	200	305	305
DIMENSIONS [mm]	325 x 258 x 279	485 X 257 X 354 mm	485 X 257 X 354 mm
WEIGHT [kg]	8.5	9	9
SPEED	1.5 m/s (3 knots)	1.5 m/s (3 knots)	1.5 m/s (3 knots)
RUN-TIME	Power Supply (no battery life)	2 hrs normal operation	2 hrs normal operation
BATTERY	19.2 VDC	96 Wh lithium ion smart battery / user replacable	96 Wh lithium ion smart battery / user replacable
THRUSTERS	Independent, Infinitely Variable, 100% Reversible	4 powerful thrusters 4 x 350 W	4 powerful thrusters 4 x 350 W
THETHER [m]	75-100	Min 75 meters	Min 75
SENSORS	Intelligent sensor package complete with water temperature, battery leves, auto depth and auto heading	Inertial Measurement Unit (IMU) with 3-axis gyro and 3-axis accelerometer. Depth sensor Magnetometer (compass) Temperature (inside and putside) Internal pressure sensor	Inertial Measurement Unit (IMU) with 3-axis gyro and 3-axis accelerometer. Depth sensor Magnetometer (compass) Temperature (inside and putside) Internal pressure sensor
STORAGE CAPACITY	limited by SD capacity	256 GB	64 GB
CAMERA RESOLUTION	FULL HD 1080p/30fps	FULL HD 1080p/30fps	FULL HD 1080p/30fps
FOV	270 °(TOTAL RANGE OF VIEW)*	115°	115°
DRONE CONTROLLER	Wireless drone controller for iOS and Android smartphones and tablets	Wireless drone controller for iOS and Android smartphones and tablets	Wireless drone controller for iOS and Android smartphones and tablets
LINK	WEBSITE	WEBSITE	WEBSITE
WARANTY	1 YEAR (2 YEARS EXTENDED WARRANTY)	1 year	1 year
AI VIDEO ANALYSIS SOFTWARE	NO	NO	
COMPATIBLE WITH KARMENstudio AI video analsis software	Food waste, Custom solutions + very skillful operator	Food waste, Custom solutions + very skillful operator	Food waste, Custom solutions + very skillful operator
SOFTWARE	Bridge Technology Bridge software enables the operator to observe underwater objects/fish and record data from sensors using a handheld controller. If positional sensors such as USBL are added, the operator can locate the ROV position via Google Maps. BRIDGE software supports integration of other sensors.	Blueeye App allows an operator to: operate underwater drone download media files and dive logs- generate inspection reports using any device Observer App allows multiple people to connect to the drone and watch the video stream simultaneously.	Blueeye App allows an operator to: operate underwater drone download media files and dive logs- generate inspection reports using any device Observer App allows multiple people to connect to the drone and watch the video stream simultaneously.

ROV MODEL	Chasing Innovation Gladius Mini S
IMAGE	 <p>Image from: www.chasing.com</p>
DEPTH RANGE [m]	100
DIMENSIONS [mm]	160 x 155 x 125
WEIGHT [kg]	685 g
SPEED	2 m/s (4 knots)
RUN-TIME	UP TO 4 HOURS
BATTERY	2500 mAh
THRUSTERS	5 thrusters
TETHER [m]	100/200
SENSORS	axis gyro / accelerometer / compass
STORAGE CAPACITY	64 GB
CAMERA RESOLUTION	1920*1080 (1080p) 30/60/120fps
FOV	-
DRONE CONTROLLER	Compass, pressure (depth) sensor
LINK	WEBSITE
WARANTY	2 years
AI VIDEO ANALYSIS SOFTWARE	NO
COMPATIBLE WITH KARMENstudio AI video analysis software	Food waste, Custom solutions + very skillful operator
SOFTWARE	CHASING GO1 It provides real-time image transmission and view, multi-screen sharing, live stream, as well as editing and sharing of imagery, which greatly improves user experience.