

Integra

Hybrid AUV/ROV



The Aquabotix Integra Hybrid AUV/ROV revolutionizes underwater vehicle missions. Integra searches wide areas using AUV mode and conducts detailed inspections using ROV mode. Switching to ROV mode is simple; attach the tether to remotely control the vehicle's five degree freedom of motion. When running the vehicle in autonomous operation, all mission planning is completed in an intuitive web based application. Integra is single person deployable, battery operated and easily configured for your mission.

Applications include mine countermeasures, port security, oceanography, environmental monitoring, infrastructure inspections, hydrographic surveys and security and law enforcement.



Product Features

- Five High Torque Motors
- Sensor Package including Depth, Temperature, Orientation and GPS
- Configurable Sensor Suite: Side Scan Sonar, Scanning Sonar, Multibeam Sonar, DVL, USBL, INS, FOG, Environmental Sensors
- 1080p True HD Camera with Pan and Tilt
- High Intensity LED Lighting (4400 Lumens)
- 5 pounds of payload capability
- Single Person Deployable
- Live Remote Control and Data Sharing
- Wi-Fi Communications

Depth Configurations Available

- Integra 100 – Depth Rated to 100 m
- Integra 300 – Depth Rated to 300 m

Integra Technical Specifications

	Integra 100	Integra 300
Depth Rating	100 m (328 ft.)	300 m (984 ft.)
Endurance	4+ Hours	8+ Hours
Memory	32 GB	256 GB

GENERAL *

Length	111 cm (44in)
Width	37 cm (15 in)
Height	46 cm (18 in)
Weight	16 kg (36 lbs)
Payload	2.3 kg Capability (5 lbs)
Minimum Pipe Diam.	61 cm (24 in)

*Options selected may increase vehicle size and/or weight.

THRUSTERS/PERFORMANCE

Configuration	2 Forward, 3 Vertical/Pitch
Motor Type	Brushless High Torque
Speed [sprint]	5 knots (9.2 km/h)
Speed [cruising]	2-2.5 knots (3.7-4.6 km/h)
Power	Lithium Ion Battery

CONTROL

Browser Based - HTML5
Wi-Fi Communications

INTEGRATED SENSORS

Orientation	Depth
Water Temperature	GPS

CAMERA/LIGHTING

Camera	1080p HD
Camera Pan/Tilt	130/50 Degrees
Camera Focus	Fixed (20 cm to Infinity)
Lighting	4400 Lumens LED
Beacon	Strobe Light

VEHICLE PROCESSING

Processor Board	Quad Core Cortex-A53 at 1.2 GHz
Operating System	Embedded Linux
	Open-Source ROS API

AUTOMATION **

Auto Controls	Depth, Heading, Altitude, Pitch
Autonomy	Station Hold, Waypoints, Emergency Surface, Mission Planning

**Availability based on Sensor Suite Configuration

Available Options

GENERAL

Tether (ROV)	60, 80, 100m Neutrally Buoyant
	Custom Length Fiber Optic
Add'l Payload	4.5 kg Total Capability (10 lbs.)

OPTIONAL ACCESSORIES

Water Sample Collector	Fish Plow
Tether Reel w/ Slip Rings	Spares Kit
First Person View Goggles	Maintenance Kit
User Control Work Station	Manipulator Arm
Satellite Communications	Laser Scaler

OPTIONAL SENSORS

Side Scan Sonar	Scanning Sonar
Environmental	Multibeam Sonar
DVL	USBL
INS	Metal Thickness Gauge
FOG	

CAMERA/LIGHTING

External Camera	Wide Angle 1080p HD
Camera Rotation	360 Degrees
Lighting	Additional 700 Lumens each
Lighting	Tracking External Camera
Memory	128/256/512 GB, 1/2 TB



Multibeam Sonar



Manipulator Arm



Side Scan Sonar



DVL

Specifications Subject to Change.

www.aquabotix.com | info@aquabotix.com | +1 508 676 1000

2/18

21 Father DeValles Blvd., Suite 106, Fall River, MA, 02723 | © 2018 Aquabotix Technology Corporation