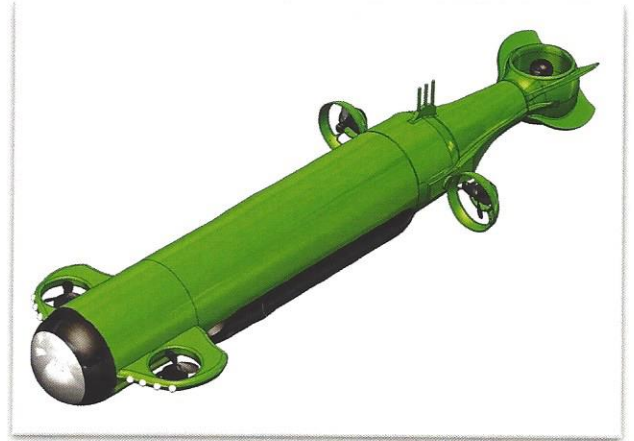


Aquabotix

# Hybrid ARV

Autonomous Remote Vehicle



**The Aquabotix Hybrid ARV** is the first true hybrid AUV/ROV for shallow water tasks. Hybrid ARV 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 six degrees freedom of motion. When running the vehicle in autonomous operation, all mission planning is completed in an intuitive windows based application. Hybrid ARV is single person deployable and battery operated.

## Product Features

- >> Five Swiss Made High Torque Motors
- >> Sensor Package including Depth, Temperature, Orientation and GPS
- >> 1080p True HD Camera with Tilt
- >> 100 m of Neutrally Buoyant Tether for ROV Operation
- >> Depth Rating up to 300 meters
- >> 8 Pounds of Payload Capability
- >> High Intensity LED Lighting
- >> Also Available: Sensors including Side Scan Sonar, Scanning Sonar, DVL, USBL, Wi-Fi, Bluetooth



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## TECHNICAL SPECIFICATIONS

### GENERAL

Depth rating	100 m (328 ft)
Length	109 cm (43 in)
Width	37 cm (15 in)
Height	30 cm (12 in)
Weight	16 kg (36 lbs)
Tether (ROV)	100m Neutrally Buoyant
Payload	3.6 kg Capability (8 lbs.)

### THRUSTERS/PERFORMANCE

Configuration	2 Forward, 2 Vertical, 1 Pitch
Motor Type	Rare Earth 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
Run Time	4+ hours

### CAMERA/LIGHTING

Camera	Wide Angle 1080p HD
Camera Tilt	120 Degrees
Camera Focus	Continuous (20 cm to Infinity)
Lighting	1400 Lumens LED
Memory	32 GB High Speed (up to 2048 GB available)

### VEHICLE PROCESSING

Processor Board	Quad Core Cortex-A9 at 1 GHz
Operating System	Embedded Linux MOOS Open Source Application Environment

### CONTROL APPLICATIONS

iPad App	Hybrid ARV on iTunes
Windows	Hybrid ARV on Aquabotix.com

### INTEGRATED SENSORS

Orientation	Depth
Water Temperature	GPS

## OPTIONS

### GENERAL

Depth Rating	300 m (984 ft.)
Tether (ROV)	Custom Lengths
Add'l Payload	10.9 kg Total Capability (24 lbs.)

### THRUSTERS/PERFORMANCE

Run Time	8+ hours
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### CAMERA/LIGHTING

External Camera	Wide Angle 1080p HD
Camera Tilt	180 Degrees
Camera Rotation	360 Degrees
Lighting	Additional 700 Lumens each
Lighting	Tracking External Camera
Memory	128/256/512/1024/2048 GB

### OPTIONAL SENSORS

Side Scan Sonar	Scanning Sonar
Environmental	USBL
DVL	Bluetooth
Wi-Fi Communications	

