



JaiaBot HYDRO™

(Hydro Survey)

Lightweight, rugged, high-speed, and rapidly deployable, the JaiaBot HYDRO delivers real-time data including bathymetry, current vectors, wave height, bottom type and temperature.

Feature / Specification	JaiaBot-HYDRO™
TRL	8
Weight	6.1 lbs
Length	41"
Range	~7 miles (dep on conditions)
Speed	4 ~ 10 kt, Cruising 5.5 kt
Sea State	5
Data Collection	36 hrs
Depth Rating	60 m
Acoustic Monitoring	No
Camera	Optional
Iridium Comms	Optional
Key Sensors / Payloads	Temp, Depth

Surf Zone Characterization:

Map currents, depth, and wave height to enable safe amphibious landings and littoral maneuver.

Bathymetry Mapping:

Generate real-time depth and bottom profiles for navigation and obstacle avoidance in nearshore operations.

Wet-Gap Crossing:

Characterize river depth, current speed, bottom type and bank slope to ensure rapid bridging and mobility support.





JaiaBot PAM™ (Passive Acoustic Monitoring)

A passive acoustic monitoring platform for port security and surface and subsurface threat detection, the JaiaBot PAM currently stores acoustic data that can be post processed after vehicle recovery. Work is in process to provide real time alerting, detection and classification that will be carried out on the vehicle.

Feature / Specification	JaiaBot-PAM™
TRL	7
Weight	6.5 lbs
Length	41"
Range	~7 -10 miles (est.)
Speed	2 ~ 10 kt – cruising 5.5 kt
Sea State	5
Data Collection	~36 hrs
Loiter (Standby)	~1 week
Depth Rating	~60 m dives
Acoustic Monitoring	Yes (Passive)
Camera	Optional
Iridium Comms	Optional
Key Sensors / Payloads	Hydrophone
CTD	Optional

Acoustic Tripwire Detection:

Establish passive acoustic perimeters for early warning of surface and subsurface threats.

Harbor & Port Security:

Detect, classify, and track underwater anomalies to protect high-value vessels and infrastructure

Force Protection ISR:

Provide persistent, low-signature acoustic monitoring to enhance situational awareness in denied environments.





JaiaBot ER™

(Extended Range Module)

The Extended Range module can be used on the JaiaBot HYDRO, HYDRO-CTD or PAM models to increase the endurance by 3 X = Transits in excess of 20 miles and static data collection for 115 hours

Feature / Specification	JaiaBot-ER™
TRL	6
Weight	10.6 lbs
Length	66.2"
Range	~20+ miles
Max Speed	5 knots
Sea State	3
Data Collection	~115 hrs
Loiter (Standby)	3 weeks
Depth Rating	60 m dives
Acoustic Monitoring	Optional
Camera	Optional
Iridium Comms	Optional
Sensors / Payloads	Customer Defined

Extended Operations:

Enable long-range transit and loitering for persistent domain awareness.

Station Keeping:

Maintain 115-hour positions for distributed sensing and comms relay.

Profile Dives:

Conduct 600 shallow or 100 deep 60 m dives for seafloor mapping,

