

# HERON™

## UNMANNED SURFACE VESSEL



A PORTABLE AND AGILE  
AQUATIC RESEARCH VESSEL



### BUILT FOR RAPID PROTOTYPING

Your applications and requirements are unique. We understand. With a modular and expandable system architecture, Heron can easily integrate payloads ranging from tactical surveillance to environmental sensing.

### RUGGED, RELIABLE RESEARCH PLATFORM

Heron's bulkheads and propulsion systems are built for field use. Enclosed thrusters protect impellers from weeds and ground contact. Instruments and onboard computer are weather rated and accessible via water-proof connectors.

### UNPRECEDENTED EASE OF USE

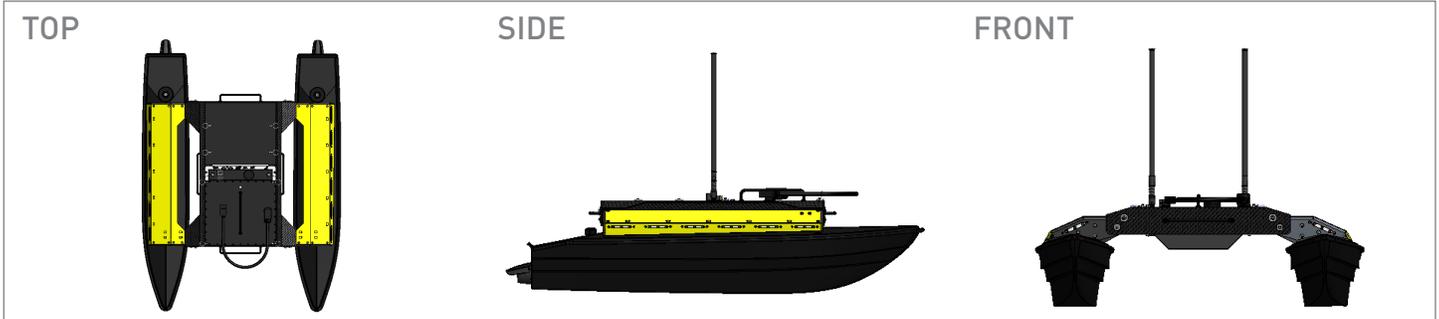
Unlike other unmanned surface vessels, Heron can be transported, deployed and retrieved by one person; without tools and in minutes. With its foldable pontoons your field staff will love how easy Heron is to operate.

A FEW OF THE INNOVATIVE FIRMS WHO USE OUR ROBOTS



Contact us today for pricing and a free 30 minute technical assessment: **1-800-301-3863**

# TECHNICAL SPECIFICATIONS



<b>DIMENSIONS DEPLOYED</b> (L x W x H)	1350 x 980 x 320 mm (53.2 x 38.6 x 12.6 in)	<b>DRAUGHT</b>	120 mm (4.7 in)	<b>PROPULSION</b>	Water Jet (Electric)
<b>DIMENSIONS STORED</b> (L x W x H)	1350 x 560 x 330 mm (53.2 x 22 x 13 in)	<b>BATTERY PACK</b>	NiMH 14.4V 29Ah 2.5 hrs life	<b>ENVIRONMENTAL</b>	IP 65 - 10 / +30 °C
<b>WEIGHT</b>	28 kg (62 lbs)	<b>DRIVE POWER</b>	70 W peak 40 N Thrust	<b>SENSORS</b>	Hazard Camera, GPS, IMU
<b>RATED PAYLOAD</b>	10 kg (22 lbs)	<b>RECHARGE TIME</b>	8 hrs	<b>DRIVERS/ APIs</b>	ROS, C++, MOOS-IvP
<b>MAXIMUM SPEED</b>	1.7 m/s (3.3 kn)	<b>COMMUNICATION</b>	Ethernet, RS232	<b>CONTROL MODES</b>	- TELE-OP - Programmable GPS Navigation (available)

## SAMPLE APPLICATIONS

### AUTONOMY RESEARCH



Heron is designed with a **scalable and open architecture** making it the ideal platform for researching, developing and testing novel unmanned surface vessel control strategies.

### HARBOUR SURVEILLANCE



By simply adding any common **intelligence, surveillance and reconnaissance (ISR)** payloads, Heron morphs into a powerful tactical ally for harbor defense.

### ENVIRO-MONITORING



Heron is ideal for **bathymetric surveys and ecosystem assessment**. Load it up with sonar, magnetometers, water quality sensors and samplers. GPS telemetry is available to geo-locate data.

### MULTI-ROBOT SYSTEMS



A **single operator can control many Herons** via a rugged mobile operator control station that uses a scalable outdoor network communication infrastructure.

## CONTACT US FOR MORE INFORMATION

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Don't forget to find us online:

