Liquid Robotics Products
Wave Glider SV2
BASE PLATFORM SPECIFICATIONS

- Cellular comms (option)
- Solar panels
- Radar target enhancer
- Command & Control dry box
- AIS
- ADCP (option)
- Weather station
- Iridium comms
- Payload bay
- Wave sensor
**Liquid Robotics Products**  
**Wave Glider SV2**  
**BASE PLATFORM SPECIFICATIONS**

### GENERAL

**VEHICLE CONFIGURATION**  
Float and Sub joined by 5.8m (19ft) Umbilical Tether

**FLOAT DIMENSIONS**  
(L x W x H):  
208cm x 80cm x 25cm  
82in x 24in x 10in

**SUB DIMENSIONS**  
(L x W x H):  
190cm x 117cm x 40cm  
75in x 46in x 17in

**WEIGHT**  
89kg (196lb)

**ENDURANCE**  
1 year at sea

**WATER SPEED**  
Max: 1.3kts  
Average: 1kts

**DEPTH RATING**  
Continuous wash and spray  
Brief submergence to 2m (6.5ft)

**OBSERVABILITY**  
Silent propulsion system  
Minimal visual/radar signature  
Optional flag and marker light

**TRANSPORTATION/SHIPPING**  
Air freight compatible crates  
Crate 1:  
230cm x 80cm x 80cm  
225kg (103lb)  
Crate 2:  
210cm x 50cm x 50cm  
75kg (34lb)  
Crate 3:  
150cm x 80cm x 60cm  
225kg (103lb)

### SAFETY

**EMERGENCY LOCATION**  
Shore-activated light  
Redundant RF beacons  
2-Year redundant Iridium® tracker

**HEALTH SENSORS**  
Pressure and temperature sensors in dry boxes

**BATTERY COMPLIANCE**  
Automatic charge/discharge cut-off (for temperature and/or voltage)

### NAVIGATION

**HEADING**  
Solid state magnetometer

**GPS**  
12 channel WAAS capable

**NAVIGATION ACCURACY**  
3m radius CEP50  
40m radius CEP90 (SS3)

**STATION KEEPING**  
40m radius CEP90 (SS3)

**POWER**

**PROPULSION**  
Conversion of wave energy into thrust

**MAX DISCRETE PAYLOADS**  
2 Payload dry boxes

**MAX PAYLOAD WEIGHT**  
18kg (40lb)

**MAX PAYLOAD VOLUME**  
48L (1.4cf)

**PEAK PAYLOAD POWER**  
40W

### COMMUNICATIONS

**SATELLITE**  
Iridium® 9602  
RUDICS (option)

**CELLULAR**  
Option

**LOCAL**  
XBee-Pro® 2.4GHz

### PAYLOAD

**ARCHITECTURE**  
Modular mechanical, electrical and software interfaces to general purpose housing  
Support for 3rd party payloads

**INSTRUMENTATION**

**WATER SPEED SENSOR**  
Airmar CS4500

**AIS RECIEVER**  
Shine Micro

**WEATHER STATION**  
Airmar PB200WX

**RADAR TARGET ENHANCER**  
Echomax

### COMMUNICATIONS

**MISSION CONTROL**  
Chart-based GUI  
Waypoint & course generation

**STATUS MONITORING**  
Text & visual status indicators accessible via web interface  
SMS and email alerts  
Programmable inclusion and exclusion zones

**AUTONOMOUS NAVIGATION**  
Programmable waypoint course  
Follow course and hold/loop  
Station keeping at target