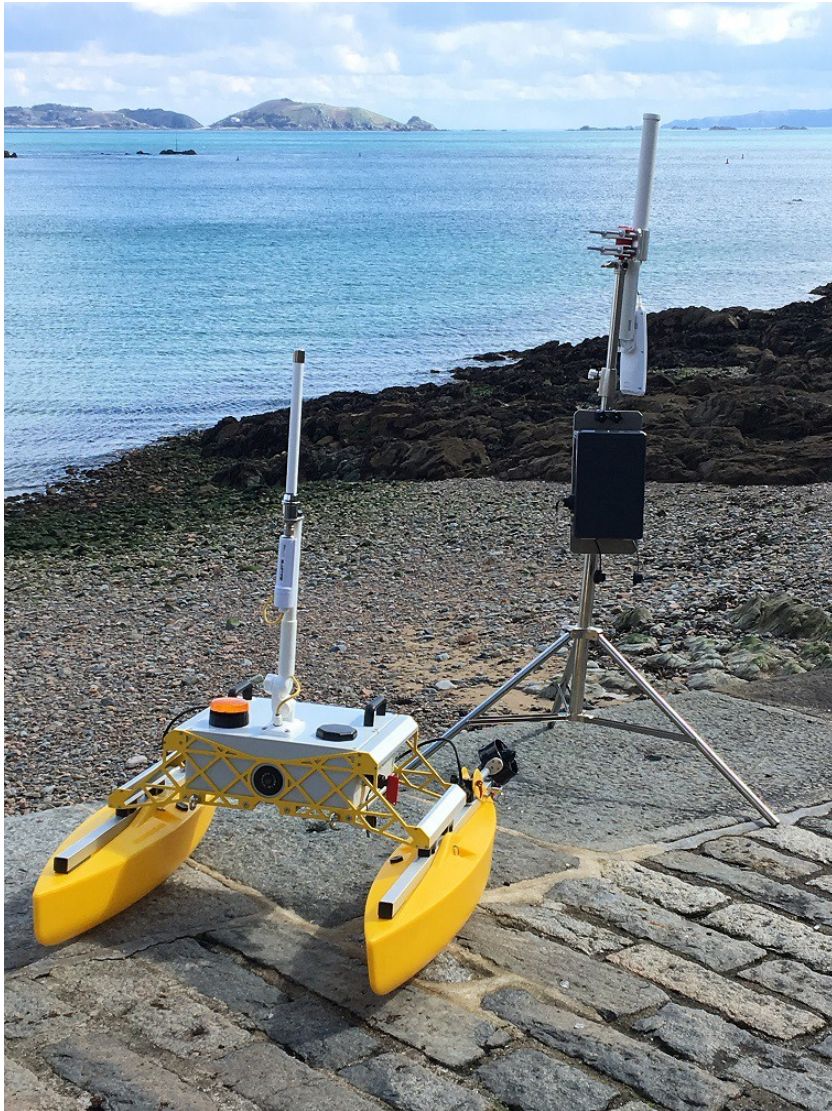
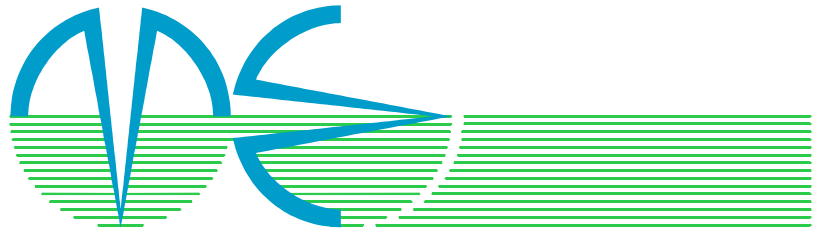


**AUTONOMOUS**

**SURVEY VESSEL**



The Marine Electronics Autonomous Survey Vessel (ASV) is designed for remote bathymetric surveying of lakes, ponds, reservoirs, canals, rivers etc using a number of different sonar devices with real time display using a wireless LAN with up to 3km range.

### **Sonar Payload Options**

- ◆ High Precision Altimeter
- ◆ 4 Beam Mechanically Scanning Sonar
- ◆ Dolphin Seaview Multibeam Imaging Sonar
- ◆ Dolphin Seaview Multibeam Bathymetry

### **Vehicle Control**

- ◆ Autopilot pre-programmed course
- ◆ Manual Radio Control up to 3km
- ◆ High Definition Camera

The ASV uses RTK corrected differential GPS for high precision centi-metric positioning with dual onboard IMU's containing Accelerometers, Gyroscopes and magnetometers.

A 5Ghz wireless LAN is used to connect to a tripod mounted battery operated base station and on board is a 100MHz Ethernet network for flexible plug and play sensor option.

The autopilot allows the ASV to follow a pre programmed course using a gridded / search pattern. In operation the sonar data is sent in real time to the shore station for visual checks and logging. The Lithium Ion re-chargable battery pack can be easily replaced with a spare or charged in situ.

The light weight ASV can be easily transported in an SUV or estate car for one man operation and after survey can be hosed down.

