

Fastwave



**INTEGRATED
OCEAN DATA
SYSTEMS**

www.fastwave.com.au

Fastwave

specialises in developing integrated,

real time data

acquisition systems for

monitoring, controlling and tracking

equipment anywhere in the world - on land, in the air,

at sea or even underwater.

By integrating marine and subsea sensors with satellite and internet communication technologies, Fastwave enables real-time management autonomous instrumentation on the ocean surface or subsea.

Established in 2001, Fastwave is Australia's leading Iridium Satellite telemetry provider and integrator, using the satellite constellation's unique capabilities to provide time-critical information from the remotest parts of the globe.

We specialise in developing data acquisition systems that meet the specific information management, visualisation and data format requirements of our clients.

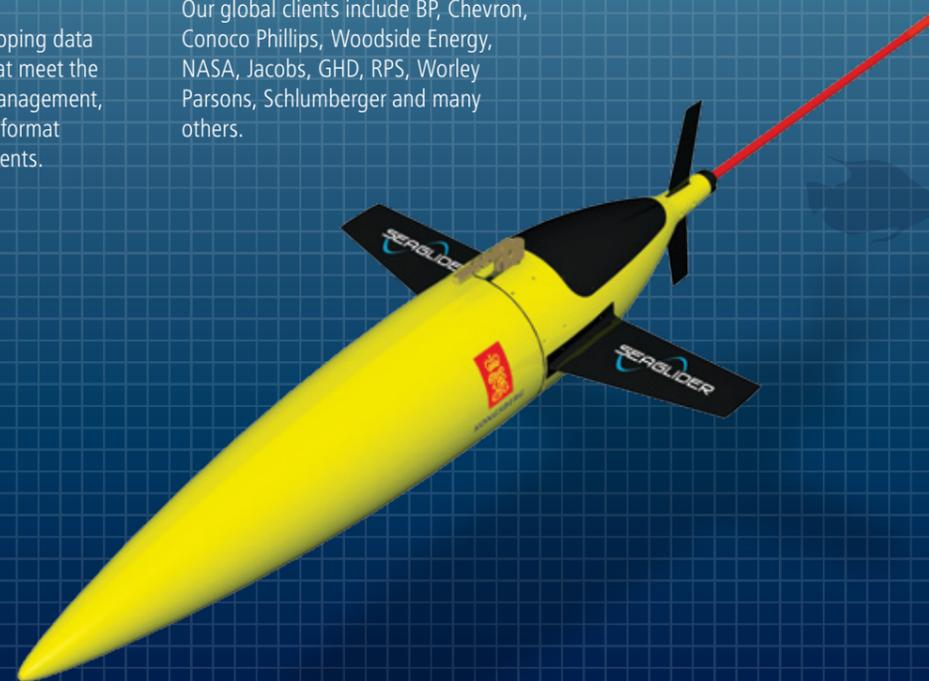
By partnering with leading robotic instrumentation and sensor manufacturers, we enable real time data acquisition from their equipment while providing secure online data access facilities for the client.

Fastwave's highly experienced engineering team has a combination of specialised communication, electronic and software skills that can deliver innovative but practical solutions for complex data acquisition requirements.

Our global clients include BP, Chevron, Conoco Phillips, Woodside Energy, NASA, Jacobs, GHD, RPS, Worley Parsons, Schlumberger and many others.

Our multi-award winning subsea sensor monitoring technology is used on some of the world's largest offshore energy projects.

If you have a requirement to acquire real-time data from unmanned autonomous systems in remote locations at sea, in the air or on land, we can help.



AUTONOMOUS MARINE DATA ACQUISITION SYSTEMS

- **OceanStar**
OceanStar is a multi-award winning telemetered system for providing real-time, multi-parameter data from in-situ subsea sensors. It is ideal for marine environmental monitoring applications, such as water quality and subsea noise monitoring.
- **Triton Gateway Buoy**
The Triton provides a high bandwidth data gateway for ocean surface and subsea instrumentation. It is designed for long term deployment, providing global, real time data coverage.
- **Voyager Tracking Buoy**
The Voyager is a compact, long endurance and re-useable satellite tracking buoy that provides real time ocean current, surface temperature and other data. The Voyager is ideal for oil spill, discharge and dredge plume modelling studies, and provides enhanced oil spill response capability.
- **Wave Glider®**
The Liquid Robotics Wave Glider is an ultra-long endurance, ocean-going robotic device that uses wave and solar power to continuously acquire data from the ocean surface, or harvest data from subsea instrumentation. Applications include metocean data acquisition, marine environmental monitoring, hydrocarbon detection, marine mammal detection and maritime security. Fastwave specialises in developing custom sensor payloads and mission deployment for the Wave Glider.
- **Seaglider™**
The Kongsberg Seaglider is an autonomous, robotic underwater vehicle (AUV) developed for continuous, long term measurement of oceanographic parameters, subsea data harvesting, hydrocarbon detection, dredge and oil plume monitoring and other subsea applications down to 1000m. The Seaglider transmits near real-time data via satellite when it surfaces. Fastwave specializes in providing custom sensor payloads and mission deployment for the Seaglider.
- **ASV Unmanned Marine Systems**
ASV (UK) design, build and operate Unmanned Marine Vehicle Systems for commercial, government and military customers. The C-Worker is an oil field services unmanned surface vehicle (USV) designed to conduct subsea positioning, surveying and environmental monitoring without the need of a ship on station or sea-bed anchoring.

MARINE AND SUBSEA SENSOR SYSTEMS

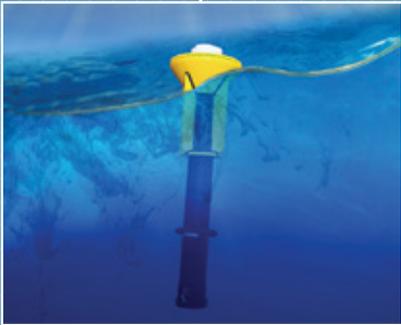
- **Chelsea Technologies Marine Sensor Systems**
Chelsea Technologies Group produces innovative multi-parameter sensors & systems for monitoring the physical, optical and biological oceanographic environment. Parameters include temperature, conductivity, depth, chlorophyll, turbidity, transmission, fluorescence & bioluminescence.
- **Ocean Sonics Hydrophone Systems**
Ocean Sonics offer a new class of hydrophones that measure, log and transmit ocean sounds for environmental noise monitoring, marine renewable energy, pipeline leak detection, cetacean monitoring, underwater construction and ocean observatory applications.
- **Decimus Passive Acoustic Monitoring System**
The Decimus real-time passive acoustic monitoring (PAM) system is designed for marine environmental assessments, mitigation measures and scientific research. Applications include marine renewables, oil and gas, decommissioning, marine civil engineering and infrastructure projects. Decimus has been developed by SA Instrumentation Limited of Scotland, pioneers in real time autonomous acoustic detection.
- **AML Oceanographic Sensors**
AML is an innovative manufacturer of Sound Velocity, CTD and Environmental sensors, probes and instruments for hydrography, science and environmental monitoring.

MARINE AND SUBSEA ASSET LOCATION

- **Xeos Subsea Asset Tracking Beacons**
Xeos beacons enable surface alerting and tracking of submerged assets that come to the surface.
- **Subsea Asset Location Technologies (SALT)**
The Sonarbell's unique passive sonar reflector technology enables the location and identification of submerged equipment at any depth.
- **SRT Marine Technology AIS Systems**
SRT (UK) is a leader in the development of advanced vessel Automatic Identification Systems (AIS) for enhanced maritime domain awareness.

SYSTEMS INTEGRATION, COMMUNICATION AND DATA MANAGEMENT SERVICES

- **Iridium Satellite Services**
Fastwave is an authorised Iridium Satellite Value Added Manufacturer and Reseller, offering a complete range of Iridium Satellite services and equipment, including Iridium Short Burst Data, Circuit Switch Data and RUDICS telemetry services. We specialise in developing and supporting applications requiring telemetry capability.
- **Systems Integration and Data Management**
To provide a complete solution for clients' specific data acquisition requirements, Fastwave provides specialised systems integration services, including instrumentation and communication systems engineering, software development, data management and visualisation.



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WE CAN HELP.**

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Fastwave

- Underwater Acoustic Communications
- Satellite Communications
- Mission and Sensor Payloads
- Hydrocarbon Detection
- Passive Acoustic Monitoring
- Depth, Current, Wave Profilers
- Fluorescence and Bioluminescence Turbidity
- Conductivity & Temperature
- Underwater Asset Location
- GPS Location Tracking
- Remote Weather Stations
- Acoustic Sonar Imaging
- Automated Photography
- Sub-Bottom Profiler
- Multiple Comms - Satellite, GPRS, Wi-Fi
- High Bandwidth Data Gateway / Portal
- Underwater Acoustic Modem
- and many more upon request

