

Fastwave

Voyager

Drifter Buoy

REAL-TIME DATA FOR

- Ocean current tracking
- Sea surface temperature monitoring
- Oil spill modelling and tracking
- Outfall and dredge plume tracking
- Maritime search and rescue operations
- Contaminant and debris tracking
- Coastal engineering studies
- Water quality studies
- Coral spawning studies



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Features

- Global, near real-time, 2-way communication system transmits GPS position, sea surface temperature and battery voltage.
- Design minimises wind influence and ensures close coupling with surface layer.
- Long endurance - e.g. around 300 days @ 3 hourly reporting.
- Re-useable.
- User replaceable, long shelf-life, flyable D-Cell alkaline battery pack.
- Robust, compact design – drop launch from up to 15m, air deploy with parachute.
- Simple to deploy.
- LED and vibration alert for on/off.
- Remotely adjustable reporting interval. (2min – 24hrs)
- Rapid response mode for oil spill tracking and search and rescue.

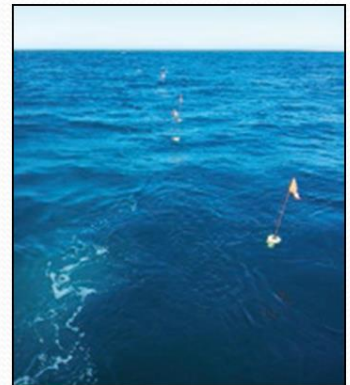


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OPTIONAL FEATURES

- Additional sensor options, e.g. fluorometer, turbidity, compact weather station.
- AIS enabled version for local vessel alerting and tracking.
- Marker flag and strobe light to assist in recovery.
- Compact drogue for sub-surface current tracking.
- Parachute for airborne deployment.
- Solar option for indefinite deployment.
- Transport case.



VOYAGER DATA MANAGEMENT

- The Voyager delivers data to Fastwave's secure servers, where it is de-coded and accessible through an on-line data management portal, or data can be delivered directly to client applications.
- The Fastwave management system enables clients to send commands to the Voyager to change reporting intervals or geofences to be set up.



VOYAGER DRIFTER BUOY SPECS

Height Overall	520mm
Diameter	250mm
Approx. Weight	4.7kg's
Material	HDPE (High Density Polyethylene)
Power Supply	Alkaline D Cell Battery Pack (12 X D-Cell, 9V)
Communications	Iridium short burst data – Iridium Satellite & GPRS
Temperature Sensor Operating Environment	Water Temp: -2 to +65 degrees <u>celsius</u>
Operating Life	Around 2000 transmissions on fully charged battery pack

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Voyager vs Pathfinder Drift Comparison



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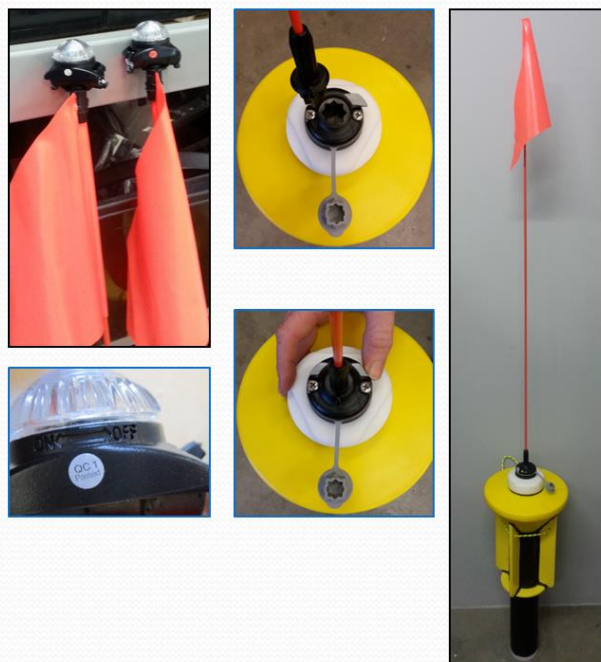
Voyager Carry Case

- The Voyager Carry case also acts as a test stand, for pre deployment testing.
- The carry case is useful for storage and stacking of Voyagers, during storage.



Voyager with Flag and LED Light

- Easy attachment of the flag, by placing the base of the flag in the mount, making sure that the flag is pushed in all the way.
- When the flag is in position slide the locking tab to the "Lock" position.
- The LED light has a On/Off switch located on body of light assembly. Turn clockwise to turn on. Turn anti-clockwise to turn off.



Voyager – Easy On/Off Switch

- The Voyager has an On/Off switch at the base and has LED and Vibration status alerts, once turned on.
- The **RED** marker indicates “On” and the **BLACK** marker indicates “Off”.
- The base cap includes a Temp sensor and a Pressure Relieve Valve.



Voyager Deployment

- Easy to deploy and can be drop launched from 15m or less, without a parachute.
- Drop launched above 15m with a parachute. The parachute clips on in four places, one on each fin.

Video not available in this document format – please view Video at <http://satellite.fastwave.com.au/asset-personnel/voyager/>



Video – Voyager taking the plunge



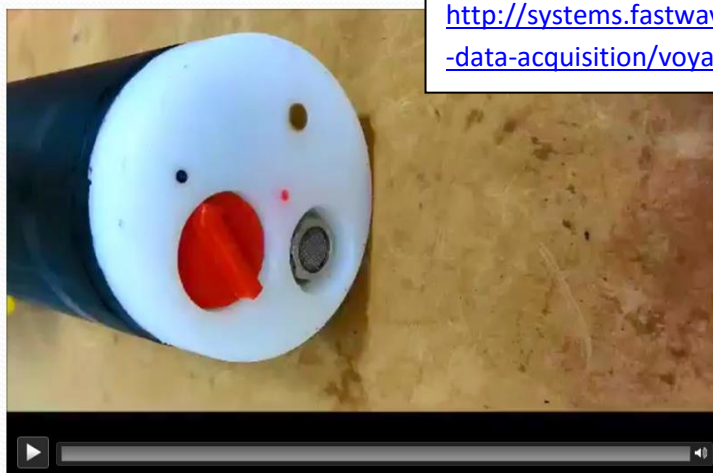
Voyager with Hydrocarbon Sensor

- The Hydrocarbon Sensor attaches as an additional module to the Voyager Drifter Buoy.



Voyager Pre-Deployment Sequence

Video – Pre-Deployment sequence



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