



Coda Octopus:MOTION

Precision Attitude & Positioning

F175-H



Benefits

Combine with the Hemisphere VS330™ dual antenna receiver to give very accurate position, roll, pitch, heading and heave

Continuous output during GNSS outages

Protects investment in existing equipment

Post processing option

Highly competitive price

Expert 24x7 Technical Support

Enhance the Hemisphere Vector VS330 dual antenna GNSS system with accurate, integrated MOTION data

Designed with ease of use in mind and targeted at the marine industry, the F175-H extends the functionality of your Hemisphere GNSS system to provide very accurate roll, pitch, heading and heave for hydrographic survey applications.

Drawing on the technology of the industry-standard F180 series, the F175-H offers a robust, reliable solution at a highly competitive price, all backed by our renowned 24x7 technical support and software maintenance service, TEAM.

In addition to extending the accuracy and feature set of your Hemisphere VS330, the F175-H greatly improves robustness to GNSS dropouts and multipath, so it is ideal for harbour and coastal areas or for working around large structures. This protects your investment in existing survey-grade GNSS positioning systems while upgrading your capabilities.

The F175-H system is supplied with antenna splitters and all necessary cables to ensure a fast, repeatable installation with no additional antennas required.

Our innovative INSight™ software is also available to generate post processed position and motion information, fully benefiting from the blending of GNSS and inertial sensors.

Features

- Tightly integrated position, heading, attitude and motion data results in increased accuracy when compared to outputs from separate sensors
- Ability to connect your Hemisphere VS330 receiver to extend functionality and enhance accuracy
- Continuous output during GNSS outages
- Compatible with HYPACK, QINSY, CARIS and other navigation packages
- Intuitive marine targeted MOTION Control software
- Standard formats and interfaces
- Optional INSight software allows for generation of post processed blended solution
- iHeave (intelligent heave processing) available as standard for improving heave accuracy
- Optional upgrade for additional receiver support

Applications

- Hydrographic survey
- Bridge, dam, harbour inspection
- Marine construction
- Offshore wind
- Dredging
- Shipping channel survey
- Environmental survey



Coda Octopus

Sound Underwater Intelligence

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Dynamic Performance

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Positional Accuracy (CEP)	Up to 0.01m
Roll/Pitch (1 σ)	0.025° (RTK)
Heading (1 σ)	0.1° (2m baseline)
Heave (1 σ)	5cm or 5% (real-time) 3.5cm or 3.5% (iHeave)
Velocity (1 σ)	0.05km/h

Receivers

Supported Receivers	Hemisphere Vector VS330 Upgrade option available to enable interfacing to other GNSS systems
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Physical

Weight	2.3kg
Dimensions	234x120x76 mm
Power 9-18Vdc;	15W (110-220Vac adapter supplied)
Operating Temperature	-10 to 50°C
Antenna splitters	Custom splitters supplied with 4 x1.5m antenna cables

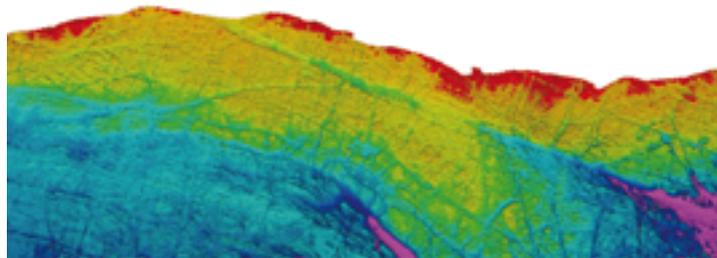
Interfaces

Ethernet 100MBit	Full control and configuration, high speed full functionality data output (MCOM)
Serial Port 1	User configurable for position, heading, attitude and timing strings. TSS1, TSSHHRP, EM1000, EM3000, MCOM, PASHR, PRDID, GGA, GGK, GSV, GST, HDT, ROT, VTG, UTC, ZDA
Serial Port 2	As Serial Port 1
Serial Port 3	External Hemisphere digital input
Other	1 PPS output on BNC

PC System Requirements

MOTION Control Software

Operating System	Windows® 7 / 8 both 32 & 64 bit
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