Coda Octopus:MOTION
Precision Attitude & Positioning

/F175-T2™

Benefits

Combine with any Trimble® dual antenna Site Positioning System (SPS) receiver to give very accurate position, roll, pitch, heading and heave

Continuous output during GNSS dropouts

Protects investment in existing equipment

Post processing option

Highly competitive price

Expert 24x7 Technical Support

Enhance any Trimble® dual antenna GNSS system with accurate, integrated MOTION data

Designed with ease of use in mind and targeted at the marine industry, the F175-T2™ extends the functionality of your Trimble® system to provide very accurate roll, pitch, heading and heave for hydrographic survey applications.

Drawing on the technology of our industry-standard F180® series, the F175-T2™ offers a state of the art robust and 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 Trimble® GNSS system, the F175-T2™ 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-T2™ system is supplied with antenna splitters and all necessary cables to ensure a fast, repeatable installation with no additional antennas required.

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 heave data results in increased accuracy and reduced settling times when compared to outputs from separate sensors
- Ability to connect any Trimble® GNSS dual antenna SPS receiver to extend functionality and enhance accuracy
- Continuous output during GNSS dropouts
- Compatible with HYPACK®, QINSy and other navigation packages
- Standard formats and interfaces
- Optional INSight™ software allows for generation of post processed blended solution
- iHeave™ (intelligent heave processing) available as standard for improved heave accuracy
- Intuitive marine targeted MOTION Control software included as standard
- Optional upgrade to interface to any GNSS receiver

Applications

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

Coda Octopus
Sound Underwater Intelligence

Sales: +44 131 553 1380 Sales Americas: +1 888 340 2627 Technical Support Americas: +1 888 340 2632
Technical Support: +44 131 553 7003 More Information: sales@codaoctopus.com www.codaoctopus.com

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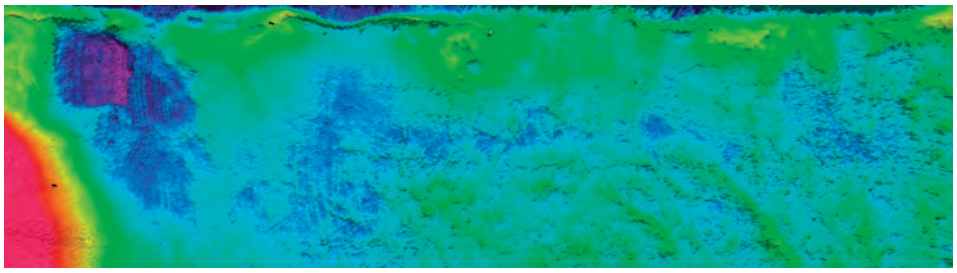
/F175-T2™

Dynamic Performance	F175-T2™
Positional Accuracy (CEP)	Up to 0.01m (dependent on Trimble® GNSS in use)
Roll/Pitch (1σ)	0.025° (RTK)
Heading (1σ)	0.1° (2m baseline)
Heave (1σ)	5cm or 5% (real-time) 3.5cm or 3.5% (iHeave™)
Velocity (1σ)	0.05km/h
Trimble® Receivers	
Supported Trimble® Receivers	SPS361; SPS461; SPS855 & SPS555H combination For single antenna Trimble® system, please see the F175-T1™ system Upgrade option available to enable interfacing to other GNSS systems
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 Trimble® digital input
Other	1 PPS output on BNC
PC System Requirements	**MOTION Control Software**
Operating System	Windows® XP SP2 / Vista / 7 / 8 both 32 & 64 bit



Tampa Bay, Florida captured using a F175™, Trimble® SPS851 & R2Sonic 2024.
Image courtesy of Measutronics, Inc.

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Scan Code to find out more

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