

### Benefits

Combine with any Trimble dual antenna marine receiver to give very accurate position, roll, pitch, heading and heave

Continuous output during GNSS outages

Protects investment in existing equipment

Post processing option

New! Optional external heading

aiding to enhance performance

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 existing 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-T2 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 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 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.

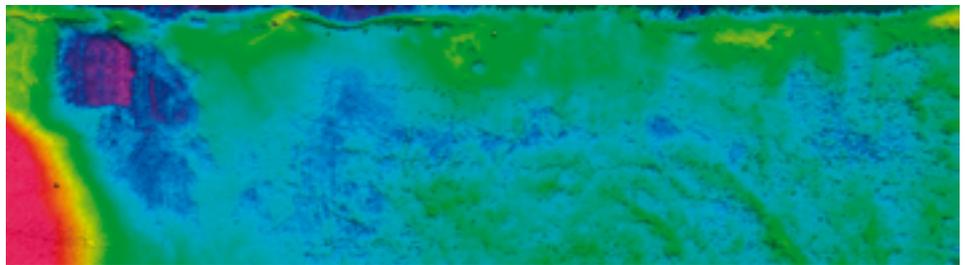
### Features

- Tightly integrated position, heading, attitude and motion data results in increased accuracy when compared to outputs from separate sensors
- Ability to connect any Trimble GNSS dual antenna marine receiver to extend functionality and enhance accuracy
- Continuous output during GNSS outages
- Compatible with HYPACK, QINSy 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

Dynamic Performance	F175-T2	F175-T2 with Optional External Heading
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)	<0.09° (2m baseline) <0.05° (10m baseline)
Heave (1σ)	5cm or 5% (real-time) 3.5cm or 3.5% (iHeave™)	
Velocity (1σ)	0.05km/h	
<b>Receivers</b>		
Supported Trimble® Receivers	SPS361; SPS461; SPS855 & SPS555H combination; BX982 Upgrade options available to enable interfacing to other GNSS systems	
<b>Physical</b>		
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	
<b>Interfaces</b>		
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	
<b>PC System Requirements</b>	<b>MOTION Control Software</b>	
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.