



Release Notes

7125 – FP1.2

28 April 2011

Ping Stability

The 7125 SV2 system is designed to allow survey acquisition to be run on the same processor as the sonar, even when logging S7K files simultaneously. After numerous reports from the field of data gaps or missing pings, RESON has embarked on an all out effort to stabilize the 7125 software under all operating conditions. Several bugs have been fixed which caused the ping period (the time period between successive pings) to behave erratically especially when collecting water column data. This instability in ping period manifested as along track gaps in the collected data, resulting in unacceptable “holidays” in the data. With FP1.2 the system will perform well whether logging intensive water column records or just performing a standard bathy survey.

Auxilliary Sensor Logging

Some applications require logging S7K files together with sensor data such as IMU, GPS, and SVP data. In general this collection mode allows for S7K files to be collected and then imported into processing software. FP1.2 fixes a bug whereby large “chunks” of incoming data were ignored by the data logger, leaving gaps in auxiliary data which could not be interpolated properly in post processing. FP1.2 allows for external sensor data to be logged together with sonar data without any loss of fidelity in the data sets, ie, at the nominal rate set by the auxiliary sensor.

Snippets Bug Fix

Users have reported that the snippets window is no longer modifiable. This was an oversight in R&D and the window has been re-enabled for users. NOTE – The snippets window is only applicable to the 7008 record mode, which has been obsolete by the new snippets datagram.

In addition, bugs were reported that showed that snippets data contained a beam count that differed from the currently operating beam count. For instance, 256 beams were reported in data sets that actually contained 512 beams. This behavior has been fixed in FP1.2.



Data logging Enhancements

Users have reported that the data logging filters are not intuitive and can be set incorrectly which creates instability in the system. FP1.2 delivers a new method for choosing the correct records to be logged in S7K format. The “minimum” records description has been updated such that users cannot “accidentally” remove critical records.