Firmware Release Notes	Survey

Date: September 3, 2013

Product: ProMark 800

Subject: ProMark 800 v1.7 Firmware Release

Introduction:

This document is the firmware release note of the ProMark 800 v1.7.
This version is minor and does not require a new registration code.

Upgrade procedure

The procedure to upgrade the receiver is the following:
1- Copy the file p_800_upgrade_V1.6.S813Kv26.tar.bz2 to an USB memory key.
2- Make sure that there are at least 10Mb of free memory after having copied these files
3- Switch off the ProMark 800
4- Plug the ProMark 800 into an external power and make sure that there is also an internal battery
5- Connect the USB memory key to the ProMark 800
6- Turn on the ProMark 800 while keeping pressed the button 'Scroll' (during about 5 seconds)
7- Wait for the complete upgrade, which should take about 30 minutes.

Firmware list and versions

General version number: V1.7 – S813Kv26

SYS:	S212
GNSS:	Kv26
RFS:	813
BOOT LOADER:	1.1.5.9
KERNEL:	2.6.19
PMU:	2.31
GSM:	R7.46

The radio firmware compatible with the ProMark 800 V1.6 are:

- Internal Pacific Crest ADL RXO: 3.04 (2280, 2288 or 2300)
- External Pacific Crest ADL Vantage: 3.04 (2280, 2288 or 2300)
- External Pacific Crest ADL Vantage Pro: 3.04 (2280, 2288 or 2300)
- External Pacific Crest HPB: 2.58 or 2.42
- Internal U-Link: 1.02
- External U-Link: 1.03 (HW: AD), 1.04 (HW: AE) or 1.09 (With Connector)

The software compatible with ProMark 800 V1.7 are:

- FAST Survey:	3.1
- GNSS Solutions:	3.80
- RINEX Converter:	4.4
- Conf Radio:	2.3
- Spectra Precision Survey Pro:	5.3
- Spectra Precision Survey Office:	2.90

New features (compared to ProMark 800 v1.6)

No new feature

Resolved Problems (compared to ProMark 800 v1.6)

1. **ConfRadio:** impossible to use Conf Radio when the receiver is not tracking satellites

2. **Post-processing:** measurements recorded with the version ProMark800 V1.6 had an issue so that the post-processing software failed to compute FIXED vectors in some conditions

Known issues

1. When you connect the ProMark 800 to a PC with the USB Cable and delete some files located in the internal memory with the Windows Explorer, the list of files returned by the *$PASHQ,FIL/FLS* commands is not correct anymore (as well as files displayed by FAST Survey). It is necessary to perform a power cycle in order to retrieve the correct list of files.

2. When the command *$PASHS,RST* is issued, the message *GNSS Board not detected* may appear sometimes. Then after few seconds, the receiver works properly.

Recommendations

1. Power consumption of GSM modem is higher in 3G mode than in 2G mode. When 2G is available, it is recommended to force the modem into 2G mode in order to increase the autonomy of the receiver (save battery).