



Firmware Release Notes

UHF Radio

Date: August 16th, 2012
Product: ADL Radio for ProMark 500 & ProFlex 500
Subject: ADL Radio Firmware V3.04 (2288)

Introduction:

This document is the firmware release note of the ADL radio for ProMark 500 & ProFlex 500.

Upgrade procedure

The procedure to upgrade the ADL radio through the ProMark 500 & ProFlex 500 is the following:

- 1- Copy the file [p_500_upgrade_ADL.A.3.04.2288.tar.bz2](#) if you want to upgrade an external ADL radio or the file [p_500_upgrade_ADL.D.3.04.2288.tar.bz2](#) if you want to upgrade an internal ADL radio to an USB memory key.

These files are available on the following address : [ftp://ftp.ashtech.com/Land Survey/UHF Radio/ADL radio/3.04\(2288\)-Ulink compatible/3.04\(2288\)- release for PM500 and PF500/](ftp://ftp.ashtech.com/Land Survey/UHF Radio/ADL radio/3.04(2288)-Ulink compatible/3.04(2288)- release for PM500 and PF500/)

- 2- Make sure that there is at least 10Mb of free memory after having copied these files
- 3- Switch off the ProMark/ProFlex 500
- 4- Plug the ProMark/ProFlex 500 into an external power source and make sure that there is also an internal battery
- 5- Connect the USB memory key to the ProMark/ProFlex 500 using cable 702104-S-SPN
- 6- Turn on the ProMark/ProFlex 500 while keeping pressed the 'Scroll' button (for about 5 seconds). The following messages should be displayed :
 - "Upgrading ADL on A" if you are upgrading an external ADL radio
 - "Upgrading ADL on D" if you are upgrading an Internal ADL radio.
- 7- Wait for the complete upgrade.

Firmware list and versions

General version number: [V6.0 - S759Gx24](#)

SYS: [S125c](#)

GNSS: [Gx24](#)

RFS: [759](#)

BOOT LOADER: [1.1.5.9](#)

KERNEL: [2.6.19](#)

PMU: [2.31](#)

GSM: [R7.46](#)

-External Pacific Crest ADL Vantage: [3.04 \(2288\)](#)

-External Pacific Crest ADL Vantage Pro: [3.04 \(2288\)](#)

New features

This new release 3.04(2288) supports the “U-Link” protocol and allows the ADL12.5 khz radio to be compatible with the U-Link radios.

Recommendations

- If you use a base with a U-Link radio and a Rover with an ADL12.5 khz radio, here are the recommended settings :

	Base – U-Link radio Tx	Rover - ADL radio Rx
Protocol	Transparent	U-Link
Baud rates	4800	4800
Squelch	low	Medium
FEC	NA	No
Scrambling	NA	NO
Format	ATOM/RTCM 3	NA

- If you use a base with an ADL 12.5 khz radio and a Rover with a U-Link RX radio, here are the recommended settings :

	Base – ADL radio Tx	Rover – U-Link radio Rx
Protocol	U-Link	Transparent
Baud rates	4800	4800
Squelch	Low	Medium
FEC	NO	NA
Scrambling	NO	NA
Format	ATOM/RTCM 3	NA

- If you use a base and a rover with an ADL12.5 khz radio, here are the recommended settings :

	Base – ADL radio TX	Rover – ADL radio Rx
Protocol	Transparent	Transparent
Baud rates	4800	4800
Squelch	Low	High
FEC	Yes	Yes
Scrambling	Yes	Yes
Format	ATOM compact	NA

Or

	Base – ADL radio Tx	Rover – ADL radio Rx
Protocol	TransparentFST	TransparentFST
Baud rates	9600	9600
Squelch	Low	High
FEC	Yes	Yes
Scrambling	Yes	Yes
Format	Other formats (than Atom compact)	NA

Compatible Software

- Make sure that you use the release V2.3.2 of ConfRadio PC software to configure the frequencies table and other parameters. This Pc software is available at : <ftp://ftp.ashtech.com/Land Survey/UHF Radio/ConfRadio>.