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## Software Release Notice

### V2.2.10 Software Ensemble for SF-2110 Series Products

#### \*\*\* Warning \*\*\*

1. This software build will only function in products containing the SF-2110 GPS engine.
2. **Important** - Update the receiver with a consistent ensemble of software and use only the latest versions of the Install and StarUtil programs included in this release.
3. **The SF-2110 allows the install of new software via either Com port. Power cycle the receiver after installing the software.**
4. **Always install the new software and software options/licenses with the antenna connected and in an area where the receiver has the ability to track satellites.**
5. The SF-2110 software updates are accomplished via StarUtil. The StarUtil User Guide is available with step-by-step procedures in Chapter 7 (<http://www.navcomtech.com/Support/Download/96-310027-3001RevB%20StarUtil-2110.pdf>)
6. Load the software at 57600 baud.
7. The receiver controller software may need updating to function properly with this new release and to enable some of the new features. Refer to the *Software "ZIP" File Contents* section below to identify the correct StarUtil program for use with this release.

#### New Messages and Features

This software ensemble incorporates several updates to older software. Details of the changes follow. The Technical Reference Manual (TRM) and the StarUtil User Guide are not affected by this software update.

## StarUtil Makes Updating Software Easy

The software upgrade package includes new software for the SF-2110. If you are receiving the software upgrade package via E-mail, then the zip file will be included as an attachment.

- ☐ *Create a new separate folder for this ensemble. This will 1) ensure that all of the correct software is in one location, 2) there is no mixing of old and new software, and 3) it affords the ability to “back-track” to the previous version.*

## Software “ZIP” File Contents

The update “ZIP” file includes the following:

<b>Program</b>	<b>Version/Date</b>	<b>Comments</b>
Release Notice 2_2_10.pdf	Dated 3 Mar 2010	Description of improvements and bug fixes (This document)
Readme.TXT	Dated 3 Mar 2010	Update instructions and a list of files
SF-2110_v2_2_10.s19	Version 2.2.10	GPS engine software – SF-2110 models
StarUtil_v200_0_43.exe	Version 200_0_43	StarUtil program – SF-2110 models
RinexUtil_v2.09.exe	Version 2.09	Binary to RINEX conversion program

## Documentation

The Technical Reference Manual has been revised with minor changes to the AE message for this release. The Product User Guide, StarUtil User Guide, and Install Manual have not changed for this release. The latest versions of the Product User Guides, Install User Guide, StarUtil User Guide, and Technical Reference Manual will be available on the NavCom’s web site at:

<http://www.navcomtech.com/Support/DownloadCenter.cfm?category=manuals> once the software is officially released.

<b>Manual</b>	<b>Part Number</b>	<b>Revision</b>	<b>Description</b>
StarUtil User Guide.pdf	96-310027-3001	B	Revised StarUtil User’s Guide
Technical Reference Manual.pdf	96-312006-3001	D	Revised Technical Reference Manual

## Software Changes/Improvements

The following sections describe the changes and improvements to each of the software modules included in the ensemble.

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## GPS Engine Software

This GPS Engine release of software provides the following list of changes, improvements, and features incorporated since the previous formal release of v2.2.8:

V2.2.10

- Corrected a 0x86 msg reporting error which caused a byte alignment error under certain conditions, resulting in satellite vehicle data (i.e. Tracked & Used compared to 0xB1) to disagree and SV C/No to appear to be missing for most of the satellites under track. Note that was a reporting error only and that the SF-2110 tracked and properly performed the primary PVT functions in the previous version(s) of software.

## StarUtil Software

This StarUtil release of software provides the following list of changes, improvements, and features incorporated since the previous formal release of v200.0.43

V200.0.43:

- No Changes

## RINEXUtil Software

This RINEXUtil release of software provides the following list of changes, improvements, and features incorporated since the previous formal release of v1.27:

V2.09

- Updates were incorporated to support newer products.

If you have any questions regarding the installation or use of the software upgrade package please contact NavCom Customer Support at [customerservice@navcomtech.com](mailto:customerservice@navcomtech.com) or by phone at +1 310.381.2000.