

# 3900 Software Download

## USB Upgrade Procedure

**WARNING** These instructions are for upgrading from versions 1.6.1 or later to version 1.7.4. **You must follow these instruction exactly as written.** If you have an older version of software, please contact the customer service department before proceeding.

### Aeroflex

Customer Service Dept.  
10200 West York Street  
Wichita, Kansas 67215

Telephone: 800-835-2350 (US Customers)  
44 8706 080 134 (International Customers)  
FAX: 316-524-2623  
email: americas.service@aeroflex.com

## USB Upgrade Procedure

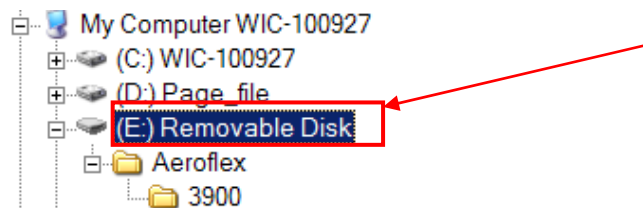
To Upgrade the 3900 series from a USB stick:

1. Go to <http://www.aeroflex.com/ats/products/product.cfm?cat=4&subcat=18&prodid=171>
2. Click on Download Software Version 1.7.4 Today

The screenshot shows the Aeroflex Test Solutions website. The main content area is titled 'Communications Test > Radio Test Sets - PMR Test > 3920 Radio Test'. Below the title, there are links for 'Request a Quote', 'Free Newsletter', 'E-mail This Page', and 'Questions/Comments'. The page is divided into two columns. The left column is a 'Product Directory' with a tree view showing categories like ATE, Avionics, Broadband Test, and Communications Test. Under Communications Test, there is a sub-category 'Radio Test Sets - PMR Test' with a list of products including TETRA Test, 2944B Comm Monitor, 2945B Comm Monitor, 2965A Radio Test Set, 2975 P25 Radio Test Set, 3500 Radio Test, 3900 Digital Radio Test, and 3920 Radio Test. The right column contains 'Product Information' and 'Related Information (Data Sheets, etc)'. The 'Product Information' section is titled 'Introducing the Newest Generation PMR Test Platform' and describes the 3920 as the latest in next generation portable test for advanced professional analog and digital radio communications. It mentions that Aeroflex has an exclusive new option for the Aeroflex 3900 Series Digital Radio Test Set to support P25 Trunking. A red box highlights the 'Download version 1.7.4 today' button at the bottom of the page. A red arrow points to this button from the right side of the page.



3. Complete the 3920 Series Digital Radio Test Set Software Registration and select Next.
4. After registering you will be directed to a page where you can download the software.
5. Click on 3900/3920 version 1.7.4 Software to download the Aeroflex\_3900\_1.7.4.zip file.
6. Uncompress the file Aeroflex\_3900\_1.7.4.zip to the root directory of a USB memory stick. The memory stick should be at least 256 MB. Uncompressed files are automatically placed in root directory named **Aeroflex**, subdirectory named **3900**. Do **not** place the **Aeroflex** directory in a subdirectory or the software upgrade will fail.



7. Before upgrading the 3900, you must do a Restore Factory Defaults / All Systems.

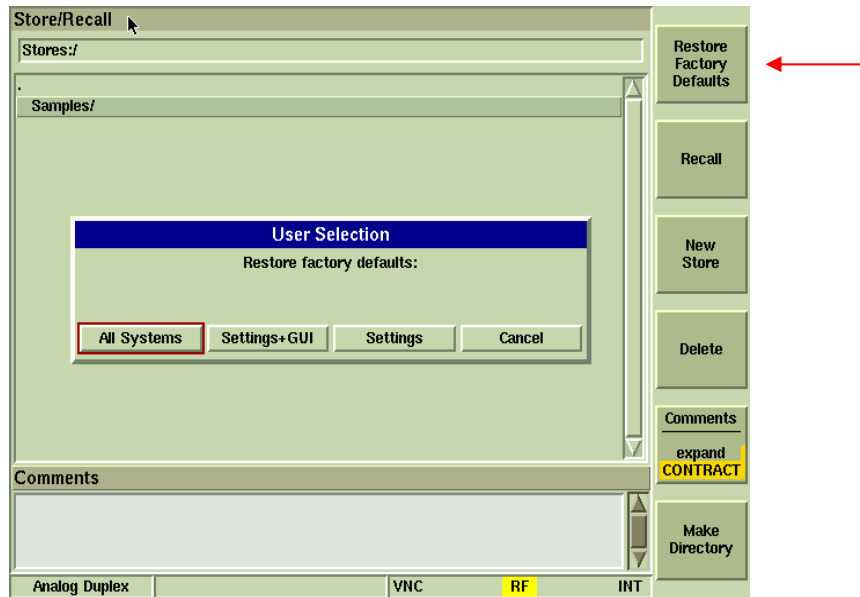
**DO NOT SKIP THIS STEP!**

This step is performed as follows:

- a. Press the [UTILS] key twice to access the Utilities floating menu.

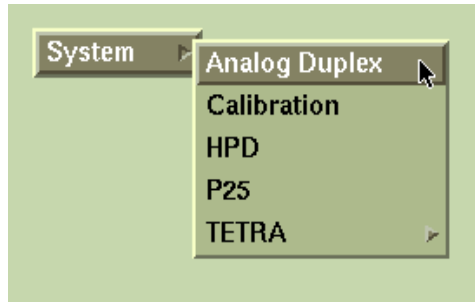
Note: If you were already in a Utilities screen, you will only need to press the UTILS key once to access the Utilities floating menu.

- b. Select “Store/Recall” from the floating menu.  
c. Press the **Restore Factory Defaults** softkey.

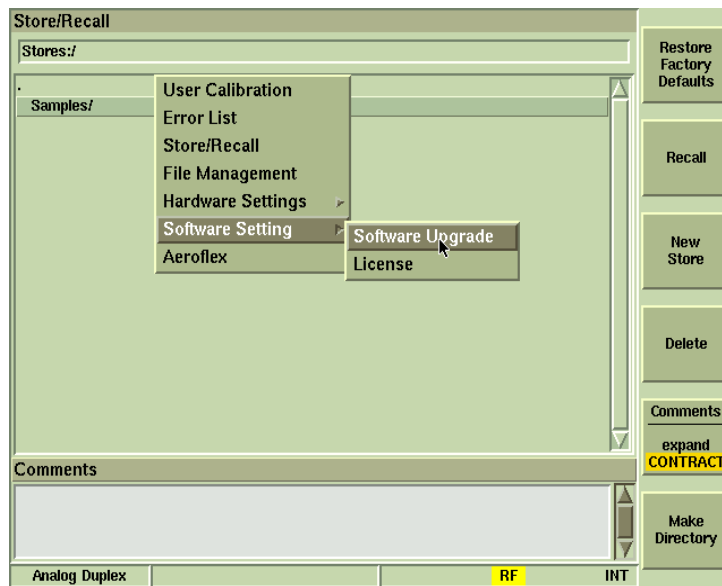


- d. Select **All Systems** from the Restore factory default User Selection popup.

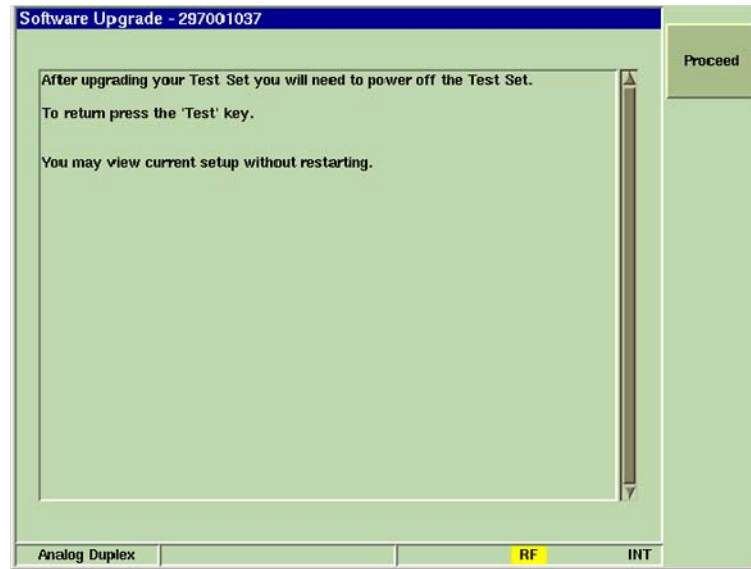
- e. When the System menu appears, press the [UTILS] key twice to access the Utilities floating menu.



- 8. Select Software Settings, Software Upgrade from the Utilities floating menu.

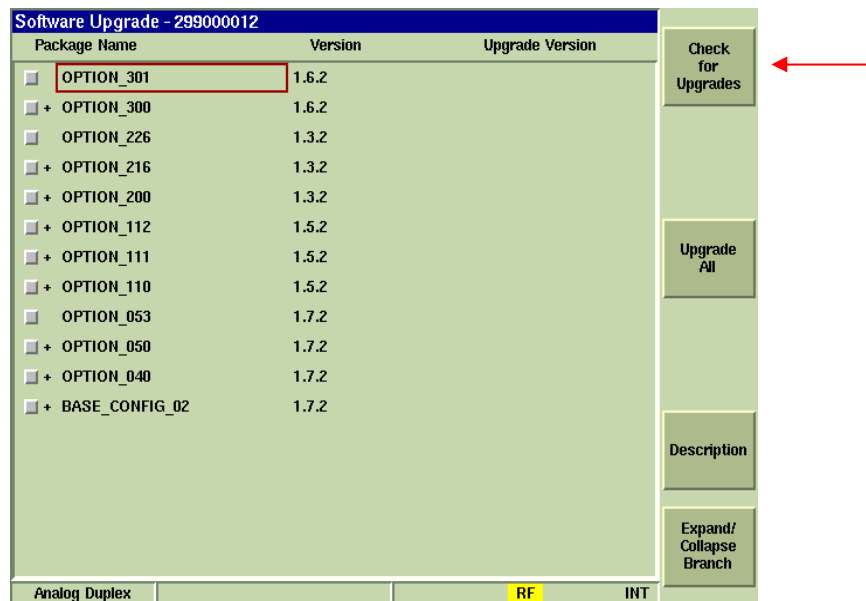


9. Select [**Proceed**] to continue. The Test Set displays a “Querying System” dialog box while the Test Set performs system checks.



10. The screen displays a list of installed options with the version of each option.

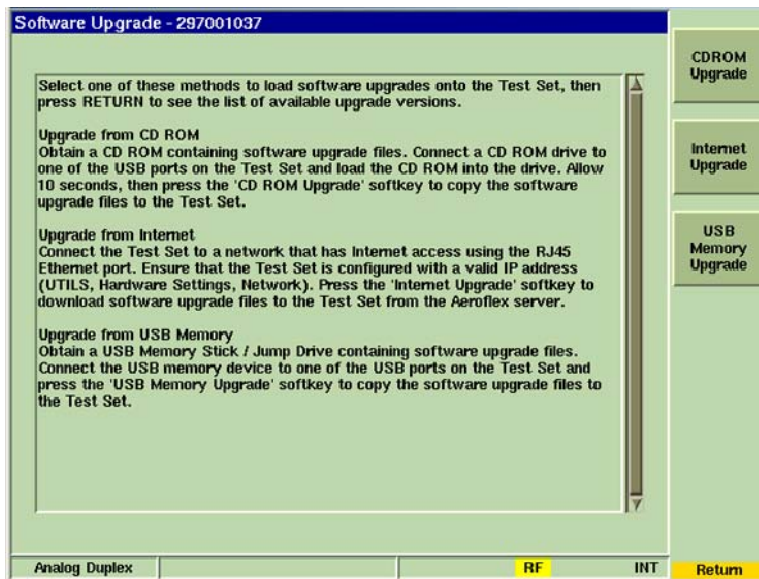
**Note:** This list varies according to the features installed on the Test Set.



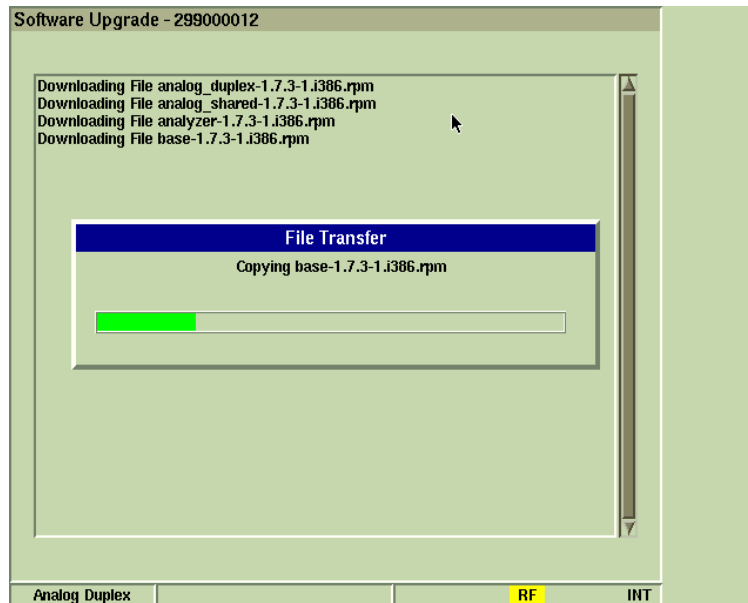
11. Select the [**Check for Upgrades**] soft key.
12. Connect the USB memory stick with the extracted files to the USB port on the Test Set.

**Note:** The USB memory stick must be connected to the Test Set before proceeding.

13. Select the *[USB Memory Upgrade]* soft key.



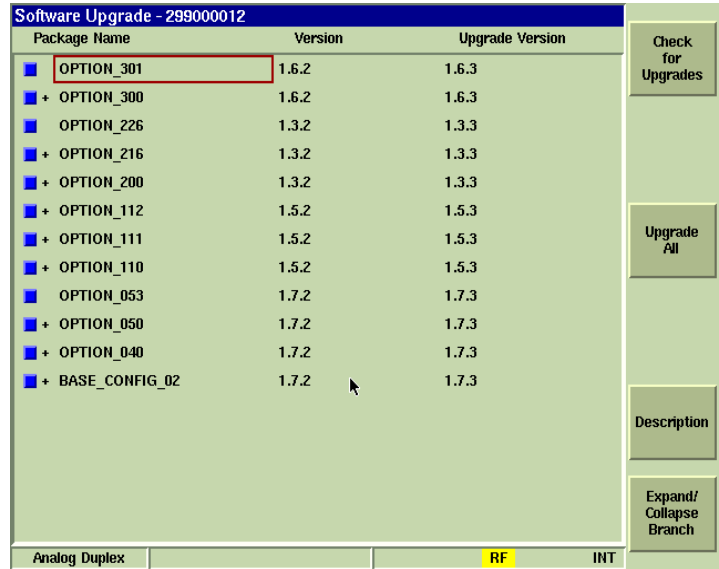
14. Wait while the Test Set auto-copies files from the USB memory stick to the Test Set. This step may take several minutes to complete.



15. After the Test Set has copied all files from the USB memory stick, you will be returned to the software upgrade page that will show currently installed versions as well as version upgrades that are available.



16. Select the *[Upgrade All]* soft key. The Test Set displays different status messages during the upgrade process.

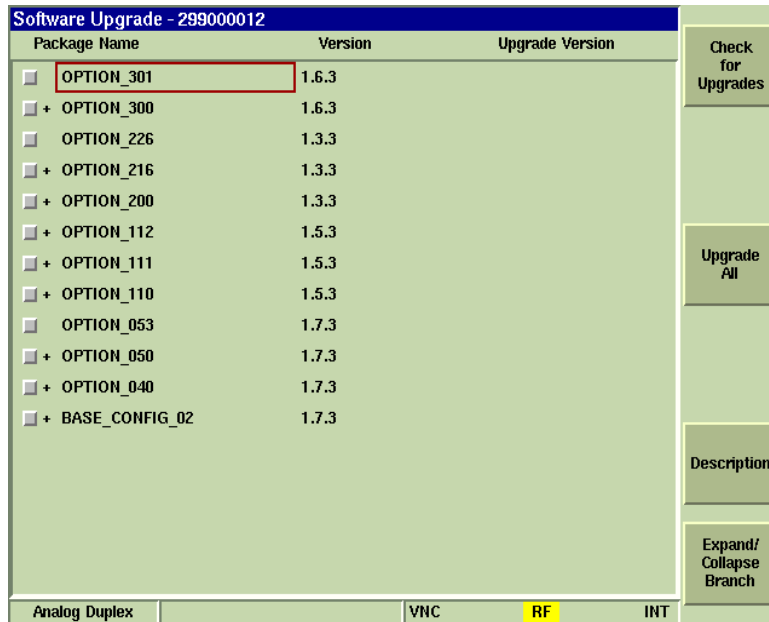


17. When the software upgrade is complete, a prompt appears requesting confirmation to shut down the Test Set. Remove the USB Memory Stick and then select **OK** to shut down the Test Set.

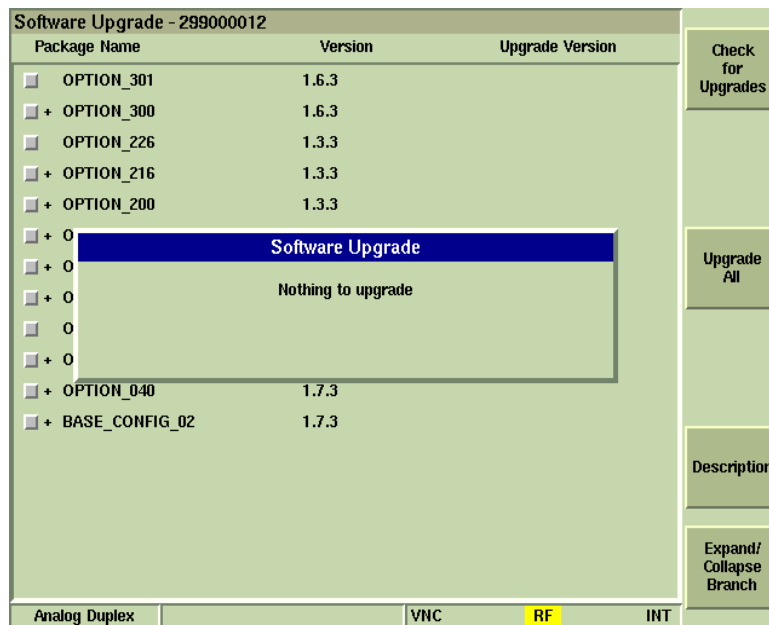


18. Power up the unit and select Analog Duplex
19. Return to the Software Upgrade screen by pressing the [UTILS] key twice to access the Utilities floating menu.
20. Select Software Settings, Software Upgrade from the Utilities floating menu and press the Proceed key

21. The Upgrade version column should now be blank and all of the buttons to the left of the package name should be cleared.



22. Press the Upgrade All button and verify the message “Nothing to upgrade”.



23. Verify that the BASE\_CONFIG\_02 Package indicates Version 1.7.4.
24. The software Upgrade procedure is now complete.

Note: The latest Operators manuals are available for download from:

[http://www.aeroflex.com/ats/products/product/Communications\\_Test/Radio\\_Test\\_Sets\\_-\\_PMR\\_Test/3920\\_Radio\\_Test\\_Set~569.html#files](http://www.aeroflex.com/ats/products/product/Communications_Test/Radio_Test_Sets_-_PMR_Test/3920_Radio_Test_Set~569.html#files)

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### 3920 Analog and Digital Radio Test Set

**Introducing the Newest Generation PMR Test Platform**

The 3920 is the latest in next generation portable test for advanced professional analog and digital radio communications.

Aeroflex has an exclusive new option for the Aeroflex 3900 Series Digital Radio Test Set to support P25 Trunking. Designed to support the needs of basic P25 testing as well as complex analysis of advanced P25 systems, the 3900 Series features powerful analysis tools with an easy to use graphics interface. The new P25 Trunking Option (option 201) supports trunking operation in the VHF/UHF/700 MHz and 800 MHz bands. Exclusive features include the ability to simultaneously generate a control channel and traffic channel with duplex offset capability to go from 1 MHz to 2.7 GHz. With the 3900 Series, operators with radios on P25 systems can rest assure their radios are in proper working order, providing the critical interoperability needed for today's communications.

Building upon a long-standing reputation for excellence in professional radio communication test, the 3920 from Aeroflex sets a new benchmark for quality, ease of use, performance and value.

The instrument is a platform onto which software options expand the measurement and signaling capabilities for communications systems that utilize advanced digital modulation and protocols. It does this while retaining the capability to test many current generation analog AM and FM radio systems.

**Download Software Version 1.7.3 Today**

This software is compatible with all 3901, 3902 and 3920 Radio Test Sets. New features included in Release 1.7.3 are improved P25 conventional operation for 390XOPT200, improved P25 trunking operation for 390XOPT201 and improved HPD@ performance for 390XOPT300 and 390XOPT301. Aeroflex has also added DCS Encryption as a standard feature to P25 option 390XOPT200. Your unit must already have Version 1.5.0 or later software installed before upgrading to Version 1.7.3.

**Designed for Flexibility, Speed, Ease of Use and Accuracy**

The all-new digital architecture of the 3920 not only delivers faster, more accurate measurements, thereby lowering the cost of test when compared to any of its contemporaries and predecessors, but also ensures that future market needs can be met in a timely fashion. The future of professional mobile radio is changing rapidly as technology advances and market needs expand and the 3920 is a platform that will stand the test of time.

- ◆ High performance AM/FM Analog Duplex features
- ◆ TETRA Mobile, Base Station and DMO tests
- ◆ P25 parametric analysis
- ◆ HPD@ (High Performance Data)
- ◆ Spectrum analyzer with tracking generator option
- ◆ Color display
- ◆ GPIB, Ethernet, USB and RS-232 Interfaces
- ◆ Software upgradable in the field
- ◆ HP/Agilent 8920B emulation
- ◆ Auto-Test II option for Analog Duplex
- ◆ Harmonics and spurious analysis option
- ◆ DCS, DCSINV and DTMF Source for modulation
- ◆ Scroll knob control of cursor


**New 3920 Training Videos**


- [Measuring CTCSS \(PL\) on FM Radios](#)
- [Measuring Voice Modulation on FM Radios](#)
- [Using the Tracking Generator to Sweep a Duplexer](#)
- [Capturing Screen Shots from the Aeroflex 3920](#)

**Digital Multimeter**

New for the 3920 is the Digital Multimeter option, number 3920OPT053. With this option come three new ports on the front panel that are used for measuring AC/DC volts, AC/DC amps, and OHMS.

**Tracking Generator Option**





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