

About this Manual

We've added this manual to the Agilent website in an effort to help you support your product. This manual is the best copy we could find; it may be incomplete or contain dated information. If we find a more recent copy in the future, we will add it to the Agilent website.

Support for Your Product

Agilent no longer sells or supports this product. Our service centers may be able to perform calibration if no repair parts are needed, but no other support from Agilent is available. You will find any other available product information on the Agilent Test & Measurement website, www.tm.agilent.com.

HP References in this Manual

This manual may contain references to HP or Hewlett-Packard. Please note that Hewlett-Packard's former test and measurement, semiconductor products and chemical analysis businesses are now part of Agilent Technologies. We have made no changes to this manual copy. In other documentation, to reduce potential confusion, the only change to product numbers and names has been in the company name prefix: where a product number/name was HP XXXX the current name/number is now Agilent XXXX. For example, model number HP8648A is now model number Agilent 8648A.

Installation Note

HP E4900 Upgrade Kit:

Upgrades HP E4900A, HP E4901A, HP E4902A, HP E4900B, HP E4901B, and HP E4902B



HP Part Number E4900-90026
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Notice

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Products affected:	HP E4900A, HP E4901A, HP E4902A, HP E4900B, HP E4901B, and HP E4902B
Applies to Versions:	A.01.02 and greater. See Notes 1 and 2 below.
Serial Numbers:	All
To Be Performed by:	<input type="checkbox"/> HP Service Center <input type="checkbox"/> Personnel Qualified by HP <input type="checkbox"/> HP Personnel On-site <input checked="" type="checkbox"/> Customer
Estimated Installation Time:	30 minutes
Estimated Verification Time:	Not applicable

Notes

1. If you are upgrading from any release prior to A.02.00, the setup and measurement data will be deleted. The databases differ between these major releases, and the data cannot be transferred. Move your existing measurement data offline (hardcopy or convert to spreadsheet data). After you update the software, re-enter your measurement definitions.
2. There are two distinct software packages used with the HP E4900 SMS software: standard and option 003. The software you use must match your software key.

Part number E4900-10027 is used for standard systems and uses software key E4900-80024

Part number E4900-10029 is used for option 003 systems and uses software key E4900-80026. (Option 003 adds control for an Atis tape recorder, Icom receiver, and HP 3488 switch control unit. Also, the title bar in the software displays [opt 003].)

Description

This package contains revision A.02.02 of the HP E4900 spectrum monitoring system. This revision addresses year 2000 database problems in the E4900 software. The upgrade is compliant with minor issues. There are issues with the PC's used and the Windows for Workgroup operating system. Web sites are listed for more information about these issues.

For further information on HP and the year 2000, see our web site <http://www.hp.com/year2000/index.html>

What's Changed in the Upgrade

In addition to the Y2K fixes, the following bugs have been fixed:

- When you use the 856xE series of spectrum analyzers, a communication problem freezes the SMS program if you re-start without first re-booting the PC.
- When you use the SMS spectrum analyzer control, the PC display may show the signal clipped below the top of the display even though the spectrum analyzer display appears correct.
- When you enter a band definition and select **coupled** to compute sweep time from resolution bandwidth, the analyzer over sweeps for some resolution and video bandwidth settings.

PC updates

The personal computers used in the HP E4900 systems may require updates to be year 2000 compliant. Some models will be fully compliant, others will be compliant with minor issues. For further information, refer to the Hewlett-Packard web site

<http://www.hp.com/cposupport/nonjsnav/pchome.html>.

Model	Bios upgrade needed	Year 2000 status
Vectra VL2/66	no	Compliant with user-performed adjustment
Omnibook 4000	Optional	Compliant with user-performed adjustment
Omnibook 5000	Optional	Compliant with user-performed adjustment
Omnibook 5500	yes	Compliant
Omnibook 5700	no	Compliant

Laptop bios upgrades are available from:

<http://www.hp.com/cposupport/nonjsnav/omnib.html>.

Operating System Updates

Microsoft Windows for workgroups is year 2000 compliant with minor exceptions. Please search the Microsoft web site for detailed information.

<http://www.microsoft.com/technet/year2k/product/product.htm>

Select **Windows for Workgroups** in the product search.

Installing the Upgrade

Be sure you load the correct software. (Refer to page 3, Note 2 for clarification.) Follow these steps:

1. Close all programs, including the SMS program.
2. Use the HP E4900 File Utilities program to save settings and data. (Refer to the HP E4900 users manual for instructions.)

CAUTION

If you do not perform step 2, all monitoring plans, band definitions, and any stored measurement data will be lost.

3. Insert disk 1 into Drive A:
4. From the program manager menu, choose **Run**, type `a:setup`, and click **OK**
5. Follow the installation instructions on the screen. Because the HP E4900 program was previously installed, you will not be required to restart the computer to reset the path variable.
6. When the installation is complete, choose **File > Run**, type `iconfig`, and click **OK**. The HP E4900 IO Configuration dialog box opens.
7. Select the type of GPIB interface and the model number of the analyzer you use from the drop-down boxes, and click **OK**.
8. Use the HP E4900 File Utilities to restore your band definitions and measurement data.

Troubleshooting

If the spectrum analyzer is not being controlled from the HP E4900, there are two common symptoms and causes:

- In the right side of the status bar a red message reads, *Spectrum analyzer not responding*.

The spectrum analyzer address is set wrong or the cable is disconnected. If the HP E4900 is unable to communicate with the spectrum analyzer upon startup, it displays the message. The SMS program must be restarted to clear the message. Make the correction from the spectrum analyzer front panel. Please consult your spectrum analyzer's users manual for instructions on changing the GPIB address.

- No message displays.

Iconfig selects which type of PC is in use: a laptop or a desktop. If you did not run iconfig before starting the SMS program, there is no software connection to the GPIB bus. To run iconfig:

1. Open the File Manager, and select **Run**.
2. Type `iconfig` and click **OK**.
3. Select the PC interface type for your system:
 - HP 82335 for desk top PC
 - PCMCIA for laptops