

NI-DAQ™ FOR PC COMPATIBLES

Version 6.9

These notes contain information you must know before installing NI-DAQ for PC Compatibles, version 6.9. They explain how to install your NI-DAQ 6.9 driver software in Windows 2000/NT/Me/98/95. They also contain instructions on how to install and use your electronic documentation set.

What Is Different about Version 6.9

Among the new features of NI-DAQ 6.9 are support for new hardware products, new NI-DAQ functions, and new NI-DAQ examples. In addition, NI-DAQ 6.9 is compatible with Windows Me.

New Functions, Examples, and Newly Supported Hardware

For more details about new functions, examples, and newly supported hardware, refer to the NI-DAQ Readme file, which has a link to the National Instruments home page. Before installation, you can find the `readme.htm` file on your NI-DAQ 6.9 software CD. If you have already installed NI-DAQ, select **Start»Programs»National Instruments»NI-DAQ»NI-DAQ Readme** to access this information.

NI-DAQ 6.9 Replaces VI Libraries and Online Help

If you are using LabVIEW version 5.x or higher, or BridgeVIEW 1.x or higher, NI-DAQ Setup will give you the option of updating data acquisition (DAQ)-related components. If you choose this option, the following files will be replaced:

- `vi.lib\Utility\Error.llb` (the error handler VIs in the **Time and Dialog** palette)
- `Help\LVDAQ.hlp` (Data Acquisition Online Help) and `Help\findxmpl.hlp` (Search Examples Help)
- All library files in `vi.lib\Daq` (all VIs on the DAQ palettes, and all corresponding palettes in `Menus\default` and `Menus\daq_view`)

- All library files in `vi.lib\Sol` (Solutions Gallery VIs and Solution Wizard program-related files)
- `Project\daqwiz.txt` and `Project_res.llb` (Solution Wizard program-related files)
- All library files in `Project\DAQwiz` (Solution Wizard program files)
- All library files in `Examples\Daq` (all the DAQ Example VIs)

If you have saved VIs into any of these libraries, you should quit NI-DAQ Setup, launch LabVIEW, copy any such VIs to another place, quit LabVIEW, and restart NI-DAQ Setup.

Installing NI-DAQ 6.9

The section covers special NI-DAQ 6.9 installation considerations.

Windows NT 4.0 Requires Service Pack 3

To install NI-DAQ 6.8 (or later) on a Windows NT 4.0 system, you must have Windows NT Service Pack 3 (or later) installed. If you attempt to install NI-DAQ 6.8 (or later) on a Windows NT system that does not meet this requirement, your system will display a message telling you that you need to install the service pack, and the installation will be terminated.

Installing NI-DAQ in a Different Language than Your Operating System

NI-DAQ 6.9 Setup automatically detects the Windows regional settings and installs NI-DAQ and the DAQ VIs for LabVIEW in the specified language, or in English if the language of the operating system is not supported. If you want to install NI-DAQ in a different language than the language of your operating system—the English version of NI-DAQ on a system running Windows in German, for example—follow these steps:

1. Click **Start»Settings»Control Panel** to open the Control Panel window, then double-click **Regional Settings**, or the equivalent in your localized operating system, to open the Regional Settings Properties dialog box. In Windows 2000, double-click **Regional Options** to open the Regional Options dialog box.
2. Click the **Regional Settings (General** in Windows 2000) tab and use the pull-down menu to select the language that you want to use for NI-DAQ, and click **OK**. If you are running Windows 98/95, you must restart your computer before continuing.
3. Install NI-DAQ as described below in *General Installation Steps*.

After you have installed NI-DAQ, you can repeat steps 1 and 2 of the previous process to restore your operating system to the original language settings.

General Installation Steps

Because all system architectures are different, each one requires a different device configuration procedure. However, in most cases you follow the same general steps:

1. Install your application software (LabVIEW or Measurement Studio, for example).
2. Install the NI-DAQ software from the CD, following the instructions in the *DAQ Quick Start Guide* and the NI-DAQ Setup software prompts.



Note The NI-DAQ software that ships with your hardware is the latest version of NI-DAQ. In some cases, installing National Instruments application software will install an older version of the NI-DAQ driver software. This is why you should install the NI-DAQ software that shipped with your hardware *after* you have installed your application software. In all cases, you *must* install your NI-DAQ software prior to installing your DAQ hardware to ensure proper hardware configuration.

If you need to install additional NI-DAQ components later, run NI-DAQ Setup again and choose **Add/Remove** from the menu.

Windows NT 4.0 Support

Differences from NI-DAQ 4.9.0 and Earlier

NI-DAQ 6.9 supports all National Instruments DAQ products in Windows NT 4.0. To facilitate this support, NI-DAQ 6.9 uses 16-bit integers in many NI-DAQ function parameters, as compared to the 32-bit integers used in NI-DAQ version 4.9.0 and earlier. Therefore, if you have existing code that uses an old version of NI-DAQ (4.9.0 or earlier) and you want to upgrade the code to use NI-DAQ 6.9 with Windows NT 4.0, you need to change the appropriate NI-DAQ function parameters to 16-bit integers.

Using Multiple PC Cards in Windows NT

Windows NT 4.0 assumes that a driver supports only one PC Card (PCMCIA card) at a time, but NI-DAQ 6.5 and later overcome this restriction. If you need to use two PCMCIA DAQ cards at the same time, use NI-DAQ 6.5 or later.

Installing Devices in Windows NT

To install devices in Windows NT, you must log into Windows NT as an administrator or as a user with administrator privileges.

ISA Devices

To use ISA Plug and Play devices (for example, AT E Series devices), you must install the Windows NT 4.0 ISA Plug and Play driver and your NI-DAQ driver software before you install your DAQ hardware. The ISA Plug and Play driver is not installed by default. Follow these steps to install the drivers:

1. Insert your Windows NT 4.0 CD.
2. Go to the `\Drvlib\Pnpisa\X86` directory.
3. Right-click once on the `Pnpisa.inf` file, select the **Install** option, and follow the instructions.
4. Install your application software (LabVIEW or Measurement Studio, for example).
5. Follow the instructions in the *DAQ Quick Start Guide* and the NI-DAQ Setup prompts.

Support of 16-Bit Applications

NI-DAQ 6.9 does not support Windows 3.x applications running under Windows NT/2000/Me/98/95. For example, you cannot use a version of LabVIEW for Windows 3.x with Windows NT/2000/Me/98/95 to program your NI-DAQ hardware using NI-DAQ 6.1 or later.

Using the Online Documentation Set

NI-DAQ Setup automatically installs the *NI-DAQ Function Reference Online Help* and *Measurement & Automation Explorer Help for DAQ*. Additionally, NI-DAQ Documentation Setup installs the following Adobe Acrobat portable document format (PDF) documents unless you choose not to install them:

- The *NI-DAQ User Manual for PC Compatibles*
- The *DAQ Hardware Overview Guide*

NI-DAQ Documentation Setup prompts you to install any or all of the PDF files for National Instruments hardware user manuals. You can read all the PDF files with the Adobe Acrobat Reader.

How to Access the Information

Measurement & Automation Explorer (MAX) contains two kinds of help—help for using MAX, and help for using your device and application. The help for using MAX is context-sensitive and automatically appears in the right panel of the MAX window. To view the DAQ device help while running MAX, select **Help»Help Topics** and select **NI-DAQ** from the menu to open *Measurement & Automation Explorer Help for DAQ*.

To access information about configuring your DAQ device in *Measurement & Automation Explorer Help for DAQ*, click the **Contents** tab, double-click **Introduction** to open a list of topics, then click **Introduction to DAQ Configuration with Measurement & Automation Explorer** to display that topic. This topic contains links to extensive information on how to configure all of the available National Instruments DAQ devices. Context-sensitive help is available in Configuration and Test Panel windows by right-clicking on any element and selecting **What's This?** from the drop-down menu.

To view the *NI-DAQ Function Reference Online Help*, go to **Start»Programs»National Instruments»NI-DAQ»NI-DAQ Help**. If you installed LabVIEW support files, the LabVIEW DAQ VI online help will be in your LabVIEW directory.

To view the PDF documents, click **Start** on the taskbar and select **Start»Programs»National Instruments»NI-DAQ»Documents** and then the document you want to view. You need Acrobat Reader version 3.0 or later to read the PDF files that ship with NI-DAQ 6.9. If you do not have Acrobat Reader installed, run `Acrobat\English\rs40eng.exe` from your NI-DAQ CD to install it.

Within a PDF document, click any entry in the table of contents to jump directly to that page. You can jump to major sections within each manual quickly and easily by clicking on the bookmarks at the left of each PDF file.

You can use Acrobat Reader to quickly find and go to every occurrence of any word or phrase in the document. Simply select the **Tool»Find** option and type in the key word or phrase you want to find.

When you choose the **View»Go To Page** option or to print pages, you must use the page numbers displayed in the lower left corner of the Acrobat window, not the number at the bottom center of each manual page or listed in the contents and index. The number in the bottom center of the page is for printed documents only.

You can assemble your own printed manual by printing the entire document or only the sections relevant to your application.

How to Add Documents

After you install your NI-DAQ software, you can access the NI-DAQ documentation on your software CD or diskettes. To install any online documents after the initial installation of NI-DAQ 6.9, click **Start»Programs»National Instruments»NI-DAQ»NI-DAQ Documentation Setup** and follow the prompts to select and install the documents you want.

If you would like to purchase printed copies of the *NI-DAQ User Manual for PC Compatibles*, please contact National Instruments and request part number 777171-01. LabVIEW, ComponentWorks, and VirtualBench users do not need the NI-DAQ documentation.

DAQ Support

To find sources for additional support, select **Start»Programs»National Instruments»NI-DAQ»Online DAQ Support**. The National Instruments web page contains troubleshooting tips and frequently asked questions on many topics, and links to databases such as Example Programs and Product Manuals. This is the most up-to-date location for resources and help.

Use the link to the Product Manuals database to load any PDF document that is not available on the NI-DAQ 6.9 CD.



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