

# ACADEMIC SOFTWARE SOLUTIONS RELEASE NOTES

## Spring 2002

Thank you for purchasing this department, college/faculty, or campus license of National Instruments software. Please read this document to familiarize yourself with the contents of your license.

The 14-CD software set includes the following:

- LabVIEW Professional Development System (PDS) 6.1 for Windows—includes HiQ
- LabVIEW PDS 6.1 for Mac OS
- LabVIEW PDS 6.1 for UNIX (**Solaris**)
- LabVIEW PDS 6.1 for Linux
- LabVIEW PDS 6.1 Japanese for Windows
- LabVIEW PDS 6.0.2 French for Windows
- LabVIEW PDS 6.0.2 German for Windows
- LabVIEW Real-Time Module 6.1
- LabVIEW Datalogging and Supervisory Control Module 6.1
- Measurement Studio 6.0
- LabWindows/CVI Full Development System (FDS) 6.0 for Windows
- IMAQ Vision Development Software for LabVIEW
- IMAQ Vision Builder
- DIAdem Standard Edition Version 8
- Add-On Software CD (**Windows and Mac OS only**)—Refer to the [Add-On Software CD](#) section of these release notes for more information about the included software tools.

## Changes Since Fall 2001 Release

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- LabVIEW PDS 6.1 for Windows, Mac OS, Solaris, Linux, and Japanese for Windows—new version
- LabVIEW Real-Time Module 6.1—new version

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- LabVIEW Datalogging and Supervisory Control Module 6.1—new version
- LabVIEW Report Generation Toolkit for Microsoft Office 1.0.1—new version
- LabWindows/CVI SQL Toolkit 2.0.6—new version
- DIAdem Standard Edition Version 8—new
- LabVIEW Database Connectivity Toolset 1.0.1—new version
- LabVIEW PID Control Toolset 6.0—new version

## Documentation

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This package includes printed sets of LabVIEW English manuals. Documentation for LabVIEW, LabWindows/CVI, and Measurement Studio add-on software is included on CD. Also, you can download all product manuals from [ni.com/manuals](http://ni.com/manuals) at no additional cost. You can purchase localized LabVIEW manuals for French, German, and Japanese by contacting the NI branch office in your area.

## LabVIEW Training Resources

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- LabVIEW Basics I Interactive CD (included)—A self-paced multimedia course that teaches you the fundamentals of LabVIEW programming in the learning environment of your choice. Basics I features hands-on exercises, step-by-step instructions, and an interactive user interface that merges video, audio, animated illustrations, and text. You can review or skip lessons to suit your level of expertise and learning style.
- LabVIEW Basics II Interactive CD (not included)—This advanced course teaches you how to plan and build a large application, design an efficient and effective user interface, create block diagrams that are easier to understand, and improve the execution speed of a VI. As an educator you can receive a 25% discount on this product. Please contact your local branch office to purchase this CD (part number 777863-01).
- Hands-on training courses—Course attendees use actual NI hardware and software in a hands-on learning environment. The instructors are trained engineers who can answer questions and help guide your efforts. NI offers training in topics such as data acquisition, real-time control, motion and vision systems, and advanced programming. NI offers discounted pricing for academic customers. Refer to [ni.com/training](http://ni.com/training) for more information about these courses.

# Academic Resources CD 2002

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The Academic Software Solutions software set also includes a CD with a comprehensive collection of the following reference materials for use in academia:

- **Measurement and automation experiments**—The Measurement and Automation Experiments Library contains experiments written by educators from around the world that demonstrate the use of NI products. Every experiment is free to download, easy to modify, and includes a complete equipment list, set up instructions, LabVIEW VIs, a list of references used by the author, and a student portion with objectives, theory, lab procedure and more.
- **Distance learning resources**—View online tutorials, live experiments, white papers, and how-to guides at [ni.com/academic](http://ni.com/academic) that teach you how to use remote laboratories with LabVIEW. Refer to the free online tutorial to learn how to use the LabVIEW 6.1 remote panels feature to develop and launch a remote laboratory using the Internet. Then, download white papers for an in-depth analysis of remote laboratory issues. Finally, for a demonstration, log on to any of the live experiments and control the LabVIEW program using your Web browser.
- **Pre-written course manuals**—Currently there are seven course manuals useful in teaching mechanical and electrical engineering, physics, and industrial technology classes. The manuals provide a complete description of the experiments and LabVIEW VIs that control the experiment.
- **Customer solutions**—NI has developed a library of customer success stories that demonstrates the benefits of computer-based tools in science and engineering education. A two-page solution gives you a brief introduction to the application and the benefit of your colleague's experience. This library also provides contact information so you can request additional information from the author.

The Academic Resources CD 2002 also includes information about special academic products, a guide to measurement and automation reference books, and other resources. Refer to [ni.com/academic](http://ni.com/academic) for more information about academic resources.

# Product Configurators

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- DAQ Designer 2002—This interactive configuration advisor assists you in selecting the appropriate data acquisition products for your application. This utility also recommends any special signal conditioning, such as filtering, isolation, and amplification, needed for accurate measurements.
- Instrupedia CD—Instrupedia is an encyclopedia of instrumentation offerings from NI. This CD contains the NI *Measurement and Automation Catalog*, Technical Notes, Application Notes, and customer solutions.

## Serial Numbers

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You can find your serial number on the yellow Certificate of Ownership card. Use this serial number when installing all software in your package. Please fill out the card and return it to NI. NI uses the name that you provide for future updates if you have a maintenance agreement.

## Additional Software Available for Licensing

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You also can purchase a site license for Lookout. Lookout is industrial automation software that is object-based and requires no programming, scripting, or compiling. For a site license such as campus, college/faculty, or department, you must purchase one copy of Lookout and an associated upgrade agreement at a regular academic discount.

## LabVIEW Student Edition

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NI and Prentice Hall are pleased to announce the availability of LabVIEW 6i Student Edition, which allows students to use this powerful engineering software at home. LabVIEW 6i Student Edition includes *Learning with LabVIEW*, by Dr. Robert H. Bishop of the University of Texas at Austin.

LabVIEW 6i Student Edition allows instructors to assign LabVIEW homework. Students can then take the VIs they partially developed in the classroom and work on them at home.

Instructors can visit the LabVIEW Student Edition Web site at [ni.com/labviewse](http://ni.com/labviewse) to request a complimentary copy of LabVIEW Student Edition.

# Add-On Software CD

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The Add-On Software CD includes add-on software for LabVIEW, LabWindows/CVI, and Measurement Studio. Run the setup program from the appropriate directory to install your add-on software. Each directory includes documentation in PDF format. You can download Adobe Acrobat Reader from the Adobe Web site, [www.adobe.com](http://www.adobe.com).



**Note** If you need add-on software for UNIX or Linux, please contact your nearest NI branch office. No add-on software for UNIX or Linux has changed since Spring 2000.



**Note** When installing add-on software on Windows 2000 or XP, you might receive a warning that you are installing on the wrong operating system. You can safely ignore this warning.

Table 1 describes the software included for use with LabVIEW.

**Table 1.** LabVIEW Add-On Software

Software	Components
LabVIEW Enterprise Connectivity Toolset	Internet Tools version 5.0 Database Tools version 1.0.1 Statistical Process Control Tools version 5.0
LabVIEW Signal Processing Toolset for Windows	Digital Filter Design Tools version 6.0 Joint Time Frequency Analysis Tools version 6.0 Wavelet and Filter Bank Design Tools version 6.0 Super-Resolution Spectral Analysis Tools version 6.0
LabVIEW PID Control Toolset for Windows	PID Tools version 6.0 Fuzzy Logic Tools version 6.0
LabVIEW System Simulation and Design Toolset version 5.0	—
LabVIEW Sound and Vibration Toolset version 1.0	—

**Table 1.** LabVIEW Add-On Software (Continued)

<b>Software</b>	<b>Components</b>
LabVIEW Report Generation Toolset for Microsoft Office version 1.0.1	—
LabVIEW Order Analysis Toolset for Windows version 1.0	—

Table 2 describes the software included for use with LabWindows/CVI.

**Table 2.** LabWindows/CVI Add-On Software

<b>Software</b>	<b>Components</b>
LabWindows/CVI Enterprise Connectivity Toolset for Windows	Internet Tools version 1.0 SQL Toolkit version 2.0.6 Statistical Process Control Tools version 1.1.1
LabWindows/CVI PID Toolset	PID Tools version 1.1
LabWindows/CVI Signal Processing Toolset for Windows	Digital Filter Design Tools version 6.0 Joint Time Frequency Analysis Tools version 6.0 Wavelet and Filter Bank Design Tools version 6.0 Super-Resolution Spectral Analysis Tools version 6.0

Table 3 describes the software included for use with Measurement Studio.

**Table 3.** Measurement Studio Add-On Software

<b>Software</b>	<b>Components</b>
Automation Symbols 1.0	—
Autotuning PID Tools 1.0	—