

Academic Software Solutions Release Notes

November 2003

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The 23-CD software set includes the following:

- LabVIEW Professional Development System (PDS) 7.0 for Windows
- LabVIEW PDS 7.0 for Mac OS
- LabVIEW PDS 7.0 for UNIX (**Solaris**)
- LabVIEW PDS 7.0 for Linux
- LabVIEW PDS 7.0 Japanese for Windows
- LabVIEW PDS 7.0 French for Windows
- LabVIEW PDS 7.0 German for Windows
- LabVIEW Real-Time Module 7.0
- LabVIEW Datalogging and Supervisory Control Module 7.0
- Measurement Studio 7.0
- LabWindows™/CVI™ Full Development System (FDS) 7.0 for Windows
- IMAQ Vision Development Module for LabVIEW, Version 7.0
- DIAdem Standard Edition Version 8.1
- Toolkit Software CD for Windows—Refer to the *Toolkit Software CD* section of these release notes for more information about the included software tools.
- Toolkit Software CD for Mac OS—Refer to the *Toolkit Software CD* section of these release notes for more information about the included software tools.
- LabVIEW PDA Module 7.0 for Palm
- LabVIEW PDA Module 7.0 for Pocket PC

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November 2003
322494K-01

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- LabVIEW FPGA Module 7.0
- MATRIXx 6.3
- Device Drivers CD set
- LabVIEW Basics Interactive Training

Changes Since Spring 2003 Release

- LabVIEW PDS 7.0 Japanese for Windows
- LabVIEW PDS 7.0 French for Windows
- LabVIEW PDS 7.0 German for Windows
- Measurement Studio 7.0
- LabWindows/CVI Full Development System (FDS) 7.0 for Windows
- IMAQ Vision 7.0 Development Module for LabVIEW
- LabVIEW Signal Processing Toolset for Windows 7.0.1
- LabVIEW Sound and Vibration Toolset 3.0
- LabVIEW Order Analysis Toolset for Windows 2.0
- LabVIEW DSP Test Integration Toolkit for TI DSP 2.0
- LabVIEW Express VI Development Toolkit 1.0
- LabVIEW State Diagram Toolkit 1.0
- LabVIEW Math Interface Toolkit 1.0
- LabWindows/CVI Signal Processing Toolset for Windows 7.0.1
- LabVIEW PDA Module 7.0 for Palm
- LabVIEW PDA Module 7.0 for Pocket PC
- LabVIEW FPGA Module 7.0
- MATRIXx 6.3
- Device Drivers CD set
- LabVIEW Basics Interactive Training

Documentation

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 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

- LabVIEW Basics I Interactive CD set (**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. This CD set is regularly sold for (US) \$495.
- 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 for more information about these courses.

Academic Resources CD 2003

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 that teach you how to use remote laboratories with LabVIEW. Refer to the free online tutorial to learn how to use the LabVIEW remote panels feature to develop and launch a remote laboratory using the Internet. 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 2003 also includes information about special academic products, a guide to measurement and automation reference books, and other resources. Refer to ni.com/academic for more information about academic resources.

Product Configurators

- DAQ Designer 2003—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

You can find your serial number on the Certificate of Ownership card. Use this serial number when installing all software in your package. 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.

LabVIEW Student Edition

NI and Prentice Hall are pleased to announce the availability of LabVIEW 7 Express Student Edition, which allows students to use this powerful engineering software at home. LabVIEW 7 Express Student

Edition includes *Learning with LabVIEW*, by Dr. Robert H. Bishop of the University of Texas at Austin.

LabVIEW 7 Express 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 to request a complimentary copy of LabVIEW Student Edition.

Toolkit Software CD

The Toolkit Software CDs for Windows and Mac OS include additional 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 at www.adobe.com.



Note If you need toolkits for UNIX or Linux, please contact your nearest NI branch office. No toolkits for UNIX or Linux have changed since Spring 2000.



Note When installing toolkits 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 Toolkits

Software	Components
LabVIEW Enterprise Connectivity Toolset	Internet Tools 5.0 Database Tools 1.0.1 Statistical Process Control Tools 5.0
LabVIEW Signal Processing Toolset	Digital Filter Design Tools 7.0.1 Joint Time Frequency Analysis Tools 7.0.1 Wavelet and Filter Bank Design Tools 7.0.1 Super-Resolution Spectral Analysis Tools 7.0.1
LabVIEW PID Control Toolset	PID Tools 6.0 Fuzzy Logic Tools 6.0

Table 1. LabVIEW Toolkits (Continued)

Software	Components
LabVIEW System Simulation and Design Toolset 5.0	—
LabVIEW Sound and Vibration Toolset 3.0	—
LabVIEW Report Generation Toolset for Microsoft Office 1.0.1*	—
LabVIEW Order Analysis Toolset 2.0*	—
LabVIEW Simulation Interface Toolkit 1.0*	—
LabVIEW DSP Test Integration Toolkit for TI DSP 2.0*	—
LabVIEW Express VI Development Toolkit 1.0	—
LabVIEW State Diagram Toolkit 1.0	—
LabVIEW Math Interface Toolkit 1.0	—
* Windows only	

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

Table 2. LabWindows/CVI Toolkits

Software	Components
LabWindows/CVI Enterprise Connectivity Toolset for Windows	Internet Tools 1.0 SQL Toolkit 2.0.6 Statistical Process Control Tools 1.1.1
LabWindows/CVI PID Toolset	PID Tools version 1.1
LabWindows/CVI Signal Processing Toolset for Windows	Digital Filter Design Tools 7.0.1 Joint Time Frequency Analysis Tools 7.0.1 Wavelet and Filter Bank Design Tools 7.0.1 Super-Resolution Spectral Analysis Tools 7.0.1

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

Table 3. Measurement Studio Toolkits

Software	Components
Automation Symbols 1.0	—
Autotuning PID Tools 1.0	—