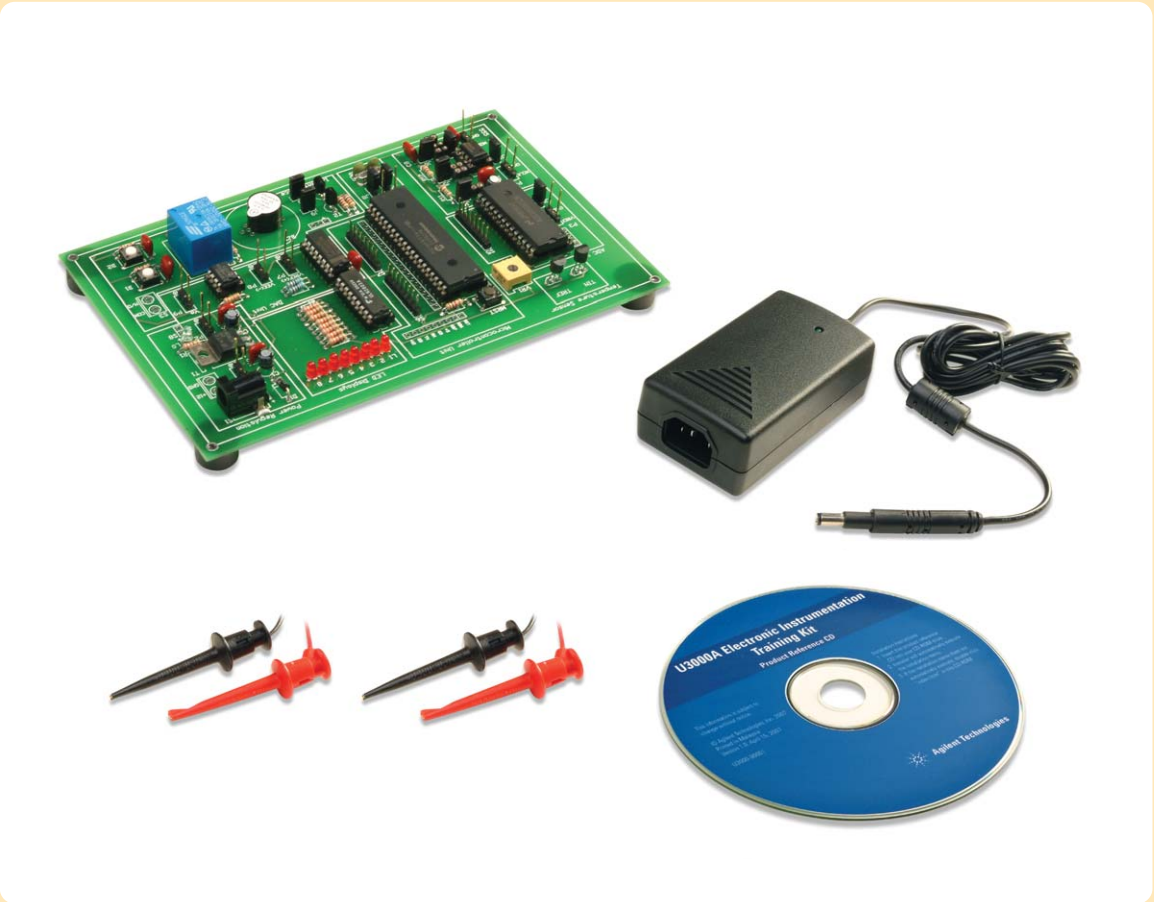


Hands-On Instrument Learning and Teaching

Agilent U3000A electronic instrumentation training kit

- Works with four Agilent instruments
- Includes teaching and lab materials
- Saves your time and effort
- Enables hands-on experience for students

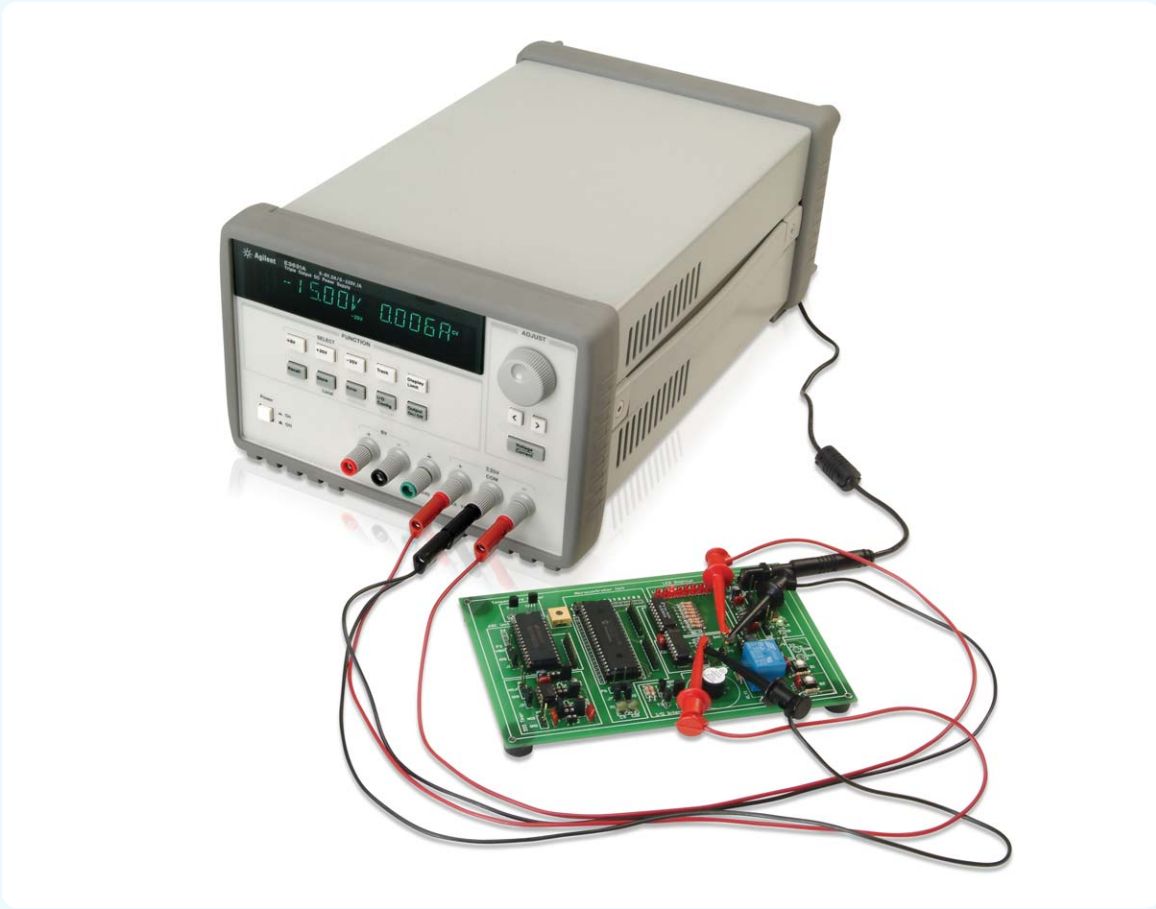




Agilent U3000A electronic instrumentation training kit

The U3000A electronic instrumentation kit is a standalone training board. The kit works seamlessly with four reliable, high performance instruments to simulate various real-world applications.

- **Includes quality teaching and lab materials** at no extra cost
 - Topics tie to instruments for better theoretical understanding and practical exposure
 - Materials include in-depth explanation of common terms and parameters
- **Saves your time and effort** in teaching and lab preparation
 - Materials are ready out of the box and cover four instruments
 - Detailed coverage of electronic instrumentation topics
- **Enables hands-on experience for students**, enhancing understanding of instrument operation
 - Better familiarity with essential benchtop instruments
 - Lessons show how to optimize instrument functions to ease common tasks



U3000A kit + Power Supply

The Agilent E3631A benchtop DC power supply is a compact, 80 W triple-output power supply. It provides quiet, stable and reliable voltage or current.

E3631A features

- **Optimum performance:** Very low noise. Excellent regulation. Fast response to load transients.
- **Convenient set up:** Up to three complete states can be stored and recalled
- **Easy synchronization:** Auto-tracking feature for output voltages
- **Automated control:** Programmable — at no cost with IntuiLink software — via GPIB or RS-232.

Power supply teaching materials coverage

- Advantages of linear and switched-mode power supplies
- Inner workings of DC-to-DC converters
- How power supplies eliminate unwanted signals
- Practical tips to optimize power supply output



U3000A kit + DMM

The Agilent 34405A 5½-digit benchtop digital multimeter (DMM) has a 120,000-count dual display and includes USB 2.0 connectivity for quick and easy setup.

34405A features

- **Fast and accurate:** Up to 70 readings per second. 0.025% DC voltage accuracy
- **Extensive capabilities:** 16 measurement functions — including temperature and capacitance
- **Data logging to PC:** Bundled IntuiLink data logger software for easy data management
- **Integration into existing system:** Programmable with various programming environments including C language

DMM teaching materials coverage

- How DMMs operate
- How to avoid measurement errors
- Advanced functions that simplify common measurement tasks
- How to perform circuit fault finding with a DMM



U3000A kit + Oscilloscope

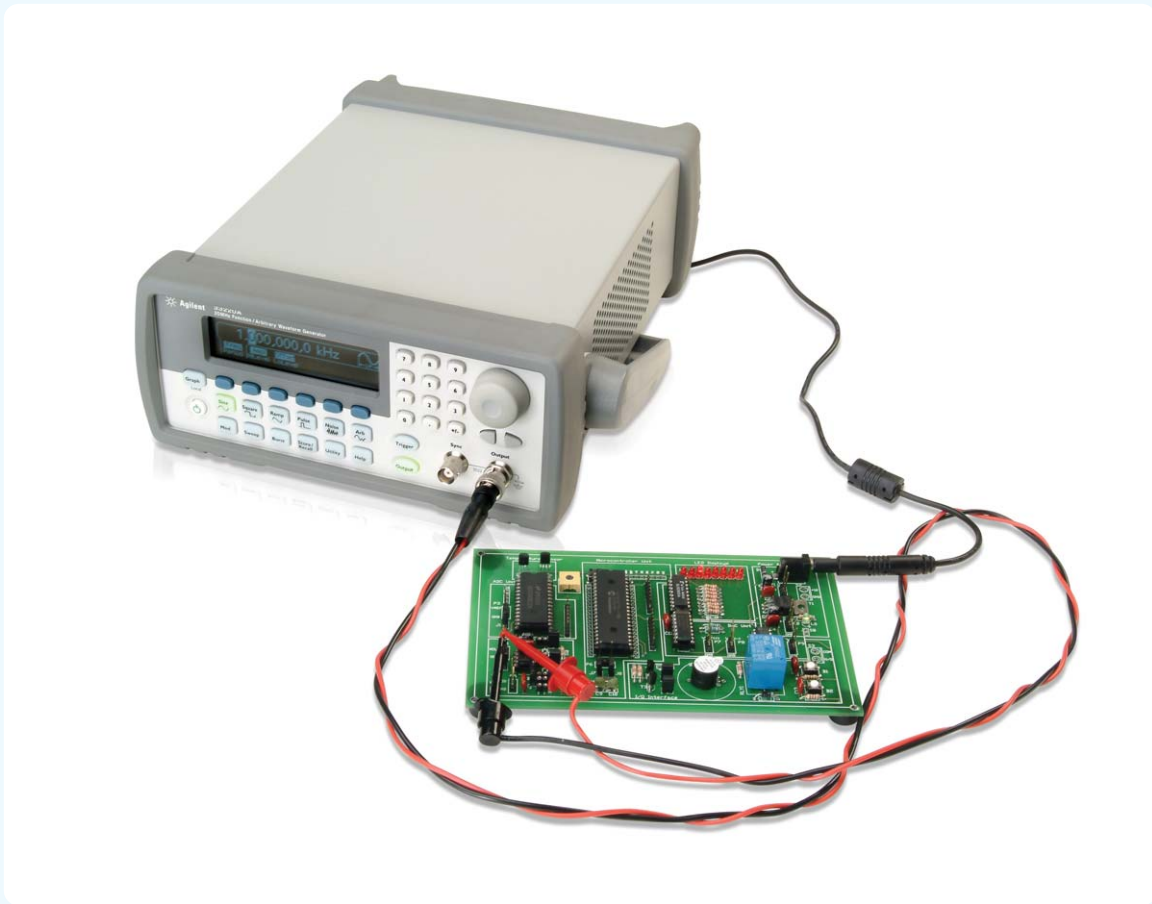
Agilent DSO3000 Series 2-channel oscilloscopes have a 15-cm color display and 4 Kpts of waveform memory.

DSO3000 features

- **Better view of signals:** Large color display. Dual window. Flexible XY format display.
- **Accurate:** Up to 1 GSa/s sampling rate.
- **Easy data management:** Bundled Scope Connect software to collect, store and document data.
- **Extensive capabilities:** 20 automatic measurements. 4 math functions including FFTs. Mask testing. Digital filtering. Edge, pulse and video triggering.

Oscilloscope teaching materials coverage

- Understanding bandwidth, memory and sampling rate
- Knowing how to select an oscilloscope that fits your needs
- Applying best practices for circuit probing
- Discovering the best ways to operate a scope



U3000A kit + Function Generator

The Agilent 33220A 20 MHz function / arbitrary waveform generator offers 11 standard waveforms with high stability and low distortion.

33220A features

- **Stable, accurate output:** Sine. Square. Ramp. Triangle. Noise. DC. Pulse.
- **Custom waveforms:** Arbitrary waveforms at 14-bit resolution, 50 MSa/s sampling rate and 64 kpts memory depth. Also, bundled IntuiLink waveform editor software to create, edit and download complex waveforms.
- **Easy visualization:** Graph mode for easy visual verification of signal settings.
- **Additional capabilities:** Modulation. Sweep. Burst.

Function generator teaching materials coverage

- How to use a function generator
- Operating principles and design of a function generator
- Advanced functions and features of the 33220A
- Advanced applications of the function generator

More solutions from Agilent to complement your learning experience with U3000A

U3000A kit + Agilent VEE Pro 8.0 + I/O Connectivity

Coming soon!

Software solution: Agilent VEE Pro 8.0 (W1141A-PRO)

Agilent VEE Pro 8.0 graphical language environment software keeps programming simple with less lines of code and less complex development screen. Utilizing high-level task oriented "flowchart" look-and-feel that we are all familiar with, Agilent VEE Pro makes learning quick and easy so you can get started on your measurement tasks in no time.

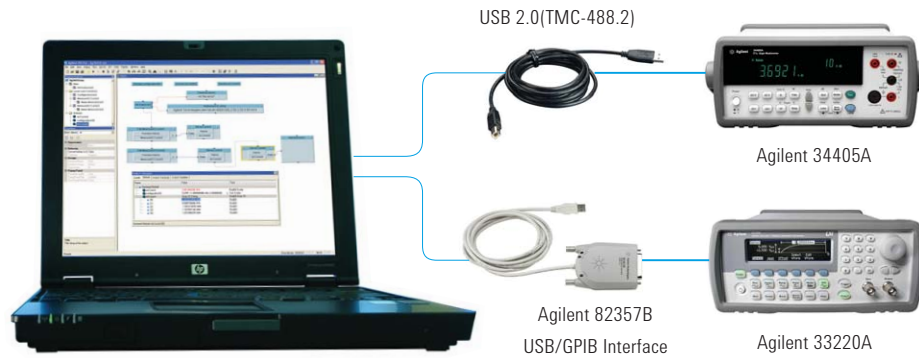
Features

- Connects to your Agilent instruments quickly and easily — in 3 simple steps
- Provides a complete software solution for your tasks: connect, measure, analyze and report
- Helps you develop test and measurement programs fast with powerful built-in functions
- Integrates Excel and MATLAB® for data analysis and visualization

Bundled teaching materials: "Measurement Automation with Agilent VEE Pro"

- Learn graphical programming basics with Agilent VEE Pro
- Control instruments from a PC
- Automate repetitive and iterative measurement tasks
- Send measurement data to a log file

Measurement Automation with Agilent VEE Pro and Agilent I/O Hardware Connectivity



Connectivity solutions

10833A GPIB-to-GPIB cable (1 m)

The 10833A links GPIB-based instruments. Its robust design allows flexibility and scalability without compromising performance.

Features

- Highly durable even under harsh conditions
- Enables seamless connectivity for instrument access, control, and data exchange
- Double-shielded for superior noise immunity

82357B USB/GPIB interface

The 82357B allows direct connection from the USB port on your notebook or desktop PC to GPIB instruments.

There are no switches to set, no PC cards to install, and no external power supplies required.

Features

- Connects quickly and easily with plug-and-play USB interface
- Provides outstanding read performance (> 1.15 MB/s)
- Backward compatible with USB 1.1

Standard Shipped Components

- CD containing User's Guide, and teaching and lab materials
- Cables and AC adapter



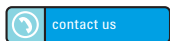
Measurement Automation— Quick and Easy

Whatever instrument you're programming—a power supply, power meter or data acquisition device, whether distributed or local—Agilent VEE graphical language software and I/O hardware provide you the ease and flexibility to set up and automate the way you want for your application need. Make measurements quickly, easily—and affordably—today.

Measurement automation program in Agilent VEE and Agilent I/O hardware



Instruments



Dial **800 829 4444** if you're in the United States. For your local contact, visit www.agilent.com/find/contactus



Specifications, data sheet and more at www.agilent.com/find/educationkit_dm



At www.agilent.com/find/quotation, select your instrument and click. We will email you a formal quotation in just 2 minutes.



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Agilent Open simplifies the process of connecting and programming test systems to help engineers design, validate and manufacture electronic products. Agilent offers open connectivity for a broad range of system-ready instruments, open industry software, PC-standard I/O and global support, which are combined to more easily integrate test system development.



www.lxistandard.org
LXI is the LAN-based successor to GPIB, providing faster, more efficient connectivity. Agilent is a founding member of the LXI consortium

Remove all doubt

Our repair and calibration services will get your equipment back to you, performing like new, when promised. You will get full value out of your Agilent equipment throughout its lifetime. Your equipment will be serviced by Agilent-trained technicians using the latest factory calibration procedures, automated repair diagnostics and genuine parts. You will always have the utmost confidence in your measurements.

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