

Basic Instruments

Safely Test High-Power Devices

January 2023 - March 2023



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Safely Test High-Power Devices

Power and characterize up to 800 W safely and easily with our new auto-ranging benchtop power supply.

The Keysight E36150 Series autoranging benchtop power supply features two models with 800 W power on a single channel output. These power supplies provide up to 60 V and 80 A to give you plenty of usable power to meet your testing needs.

The E36150 Series new power supplies also provide advanced characterization and power simulation capabilities. These include voltage and current meter, data logging, scope view, and an arbitrary waveform generator (AWG). Feature-packed to deliver high performance, the E36150 Series provides a one-box solution that eliminates the demand of having to meet the requirements of multiple instruments.

The E36150 Series power supplies are designed for versatility and are perfect for various applications, including R&D, design validation, reliability, and quality testing across all types of industries. The solution features an autoranging architecture and peak power handling capabilities enabling you to meet your various test requirements with plenty of usable power and flexibility.

Reducing cabling complexity

- Enables easy access to power outputs to connect and disconnect the device under test (DUT) quickly and safely with its front-panel, high-current detachable binding post.
- Withstands maximum current output of 80 A while being fully compliant with the International Electrotechnical Commission (IEC) 61010 safety requirements.

Advanced power control and analysis (Keysight PathWave BenchVue BV9200B / BV9201B)

- Advanced tools for data logging, oscilloscope, arbitrary waveform generator (AWG), and complementary cumulative distribution function (CCDF) statistical analysis — no additional programming required.
- Convenient access with a familiar PC control interface using the compatible PathWave BenchVue BV29200 / BV9201B software.

Peak power-handling capabilities

- Power up to safely test your electromechanical or highcapacitance devices that require a quick surge of power.
- Accommodate power surges of up to three times its 800 W rated output, delivering a total of 2400 W for at least seven milliseconds.
- WATCH SPOTLIGHT VIDEO
- **LEARN MORE ABOUT E36150 SERIES**



Smart Bench Essentials

4 instruments; 1 connected interface



EDU36311A DC power supply

90 W, triple output, and programmable for clean, reliable power



Keysight PathWave BenchVue software

Integrated, smart software to test, analyze, and share results remotely



EDUX1052G oscilloscope

50 MHz, 2 analog channels, and 1 GSa/s sample rate for accurate capture and analysis



EDU34450A 5.5-digit multimeter

Measures 11 input signals at up to 110 readings/s for speed-critical tests



EDU33211A/EDU33212A function generators

17 arbitrary waveforms and 6 built-in modulations to get you set up and testing quickly

PATHWAVE

BenchVue instrument application

- instrument set up and test
- data logging and screen capture
- data export to several file types



PATHWAVE

PW9111EDU lab manager

- lab configuration
- asset tracking
- mass firmware update



PATHWAVE

PW9112EDU remote learning

- lab scheduling and resource booking
- remote access and authentication
- browser-based lab work



Expert Technical Support •

IN ADDITION TO YOUR THREE-YEAR WARRANTY, YOU WILL RECEIVE THREE YEARS OF KEYSIGHTCARE TECHNICAL SUPPORT ON ALL BASIC INSTRUMENTS IN THIS CATALOG.

X-Series Signal Generators

The Keysight X-Series creates signals capable of testing your very best devices. From the pure and precise MXG to the cost-effective EXG and general-purpose CXG, the X-Series helps you generate true performance.

	MXG-Analog	EXG-Analog	CXG-Analog
Model number	N5181B	N5171B	N5166B
Frequency range	9 kHz to 6 GHz	9 kHz to 6 GHz	9 kHz to 6 GHz
Maximum output power	+24 dBm	+21 dBm	+18 dBm
Frequency switching (list mode)	800 μs	800 µs	5 ms
Level accuracy	±0.6 dB	±0.6 dB	±0.6 dB
SSB phase noise (1 GHz, 20 kHz offset)	-146 dBc/Hz	-122 dBc/Hz	-119 dBc/Hz
Harmonics (at 1 GHz)	-35 dBc	-35 dBc	-35 dBc
Analog modulation	AM, FM, PM, and pulse modulation	AM, FM, PM, and pulse modulation	AM, FM, PM, and pulse modulation
Digital modulation	N/A	N/A	120 MHz bandwidth
	DATA SHEET	DATA SHEET	DATA SHEET
	Get a Quote >	Get a Quote >	Get a Quote >



Basic Spectrum Analyzers (BSAs)*

The BSAs define value-priced general-purpose instruments up to 20 GHz. You can rely on the BSA for proven testing efficiency, usability, and the flexibility to adapt to new requirements.

Model	N9320B	N9321C	N9322C	N9323C	N9324C
Frequency	9 kHz to 3 GHz	9 kHz to 4 GHz	9 kHz to 7 GHz	1 MHz to 13.6 GHz	1 MHz to 20 GHz
Overall amplitude accuracy	±0.5 dB	±0.6 dB	±0.6 dB	±0.7 dB	±0.7 dB
DANL at 1 GHz	-145 dBm	-152 dBm	-152 dBm	-144 dBm	-144 dBm
Maximum analysis bandwidth	1 MHz	1 MHz	1 MHz	1 MHz	1 MHz
Phase Noise at 1 GHz	-90 dBc / Hz	-90 dBc / Hz	-90 dBc / Hz	-92 dBc / Hz	-92 dBc / Hz
	DATA SHEET	DATA SHEET	DATA SHEET	DATA SHEET	DATA SHEET
	Get a Quote >	Get a Quote >			

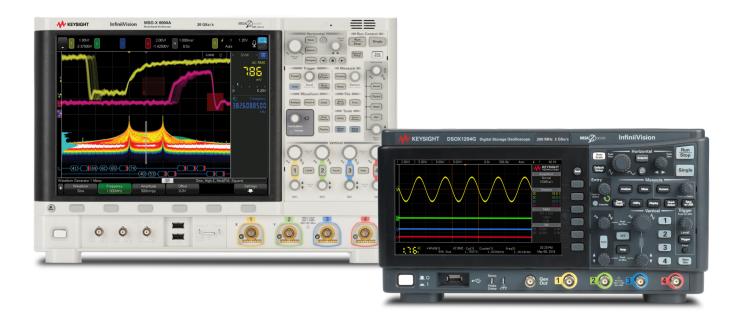
^{*} From selected distributors only





InfiniiVision Oscilloscopes

- Experience up to 1,000,000 waveforms / second update rate.
- Get MegaZoom IV and measure with uncompromised, responsive smart memory.
- Test using multiple instrument functionality.
- Expand your platform with upgradable bandwidth, a mixed-signal oscilloscope (MSO), serial analysis, and a built-in waveform function generator.



Get more functionality with available software packages

	Automobile	Aerospace & Defense	Embedded	Power	USB	Ultimate Bundle
1000X	Standard (DSOX)	NA	Standard	NA	NA	NA
2000X	D2000AUTB	NA	D2000GENB	NA	NA	D2000BDLB
3000X	D3000AUTB	D3000AERB	D3000GENB	D3000PWRB	D3000USBB	D3000BDLB
4000X	D4000AUTB	D4000AERB	D4000GENB	D4000PWRB	D4000USBB	D4000BDLB
6000X	D6000AUTB	D6000AERB	D6000GENB	D6000PWRB	D6000USBB	D6000BDLB

SAVE 40% OFF QUALIFYING INFINIIVISION SOFTWARE FOR A LIMITED TIME! SEE THE SPECIAL OFFERS SECTION AT THE END OF THIS CATALOG TO LEARN MORE.

Model	1000 X-Series	2000 X-Series	3000G X-Series	4000 X-Series	6000 X-Series	Infiniium EXR-Series
	Professional- level capabilities in an entry-level oscilloscope	Entry-level with more capabilities	Advanced capabilities simplified	Everything the 3000G has plus see more of your signal	Dive deeper and analyze more signal detail	Simplify data gathering and analysis
Description	 Protocol analysis Bode plots Fast Fourier transform (FFT) 	Serial bus options Mixed-signal oscilloscope options	 Advanced math Standard embedded software** Waveform and measurement histograms** 	 Higher bandwidth Larger touch screen Up to four active probes 	Voice control Advanced jitter analysis, time interval error plots, histograms, and eye diagrams	 25% lower noise than S-Series New Fault Hunter feature Multiscope application
Bandwidth	50 MHz to 200 MHz	70 MHz to 200 MHz	100 MHz to 1 GHz	200 MHz to 1.5 GHz	1 GHz to 6 GHz	500 MHz to 2.5 GHz
Channels (analog + digital)	2, 4	2, 2+8, 4, 4+8		2, 2+16, 4, 4+16		
Sample rate	Up to 2	GSa/s	Up to 5	5 GSa/s	Up to 20 GSa/s	Up to 16 GSa/s
Memory depth	Up to 2 Mpts and segmented memory standard	Up to 1 Mpts and segmented memory standard	Up to 4 Mpts	and segmented me	mory standard	Up to 3.2 Gpts
Waveform update rate	>200,000 wfms/s	>200,000 wfms/s	>1,000,00	00 wfms/s	>450,000 wfms/s	>200,000 wfms/s
Display	7-inch	8.5-inch	8.5-inch capacitive touch screen	12.1-inch capacitive touch screen	12.1-inch capacitive multi-touch screen	15.6-inch capacitive touchscreen
Built-in instruments	20-MHz function generator, 5-digit counter, frequency response analyzer*	20-MHz function generator, 5-digit counter*	20-MHz AWG, 8-digit counter, frequency response analyzer*	Dual 20-MHz AWG, 5-digit counter, and frequency response analyzer*	Dual 20-MHz AWG, 10-digit counter, and frequency response analyzer*	10-digit counter, DVM, and protocol analyzers
	DATA SHEET	DATA SHEET	DATA SHEET	DATA SHEET	DATA SHEET	DATA SHEET
	Get a Quote>	Get a Quote >	Get a Quote >	Get a Quote >	Get a Quote >	Get a Quote >

^{*} All X-Series models have a built-in protocol analyzer and 3-digit digital voltmeter (DVM)

^{**} Only standard on the 3000G X-Series models

Featured Resource

5 Mistakes People Make When **Getting a Low-Cost Scope**

Choosing the right oscilloscope is a difficult task, especially if you're on a budget. You want to make the best decision for your needs while saving money and maintaining quality.

Avoid five common mistakes people make when selecting a low-cost oscilloscope so you — and your wallet — are happy with your decision.







DAQ970A and DAQ973A Data **Acquisition System**

Get the next-generation Keysight data acquisition (DAQ) system with a three-slot mainframe and your choice of nine plug-in modules. Interface with the DAQ using BenchVue DAQ software, the intuitive graphical front panel with taskoriented, self-guiding menus, or a web browser.

KEYSIGHT

Trend

- Features an advanced 6.5-digit internal DMM with improved accuracy and faster measurement speed (50,000 readings / second) to sample more signals.
- Measures very low current ranges (1 µA DC and 100 µA AC) and higher resistance range (1,000 M Ω).
- Compensates using new auto-calibration for internal drifts caused by time and temperature changes.
- Comes with additional GPIB for the DAQ973A; easy connectivity to your PC with LAN and USB.
- Code compatible with Keysight 34970A / 34972A.
- Each module updated with improved switching speeds and accuracies.
- Fast Keysight DAQM900A solid-state multiplexer with scan rate speed of up to 450 channels / second.
- New Keysight DAQM909A 4-channel simultaneous sampling digitizer module with a sampling rate of up to 800 kSa / second.



DAQ973A Data Acquisition System



DAQ970A/73A Modules	Description	Key specifications	
DAQM900A	20-channel solid-state multiplexer	Up to 450 ch/s	Get a Quote >
DAQM901A	20-channel multiplexer plus 2 current channels	Armature 2 / 4 wire, 80 ch/s with DAQ970A/ DAQ973A, up to 300 V, 1 A	Get a Quote >
DAQM902A	16-channel multiplexer	Reed 2 / 4 wire, 250 ch/s, up to 300 V, 50 mA	Get a Quote >
DAQM903A	20-channel actuator / GP switch	SPDT / Form C, 120 ch/s, up to 300 V, 1 A	Get a Quote >
DAQM904A	4 x 8 matrix	Armature 2-wire, 120 ch/s, up to 300 V, 1 A	Get a Quote >
DAQM905A	2 GHz, dual 4-channel, RF mux, 50Ω	Common low (not terminated), 60 ch/s up to 42 V, 0.7 A	Get a Quote >
DAQM907A	Multifunction module	 Two 8-bit digital I/O ports, up to 42 V, 400 mA 26-bit 100 kHz event counter, up to 42 V Two 16-bit analog outputs, up to ±12 V, 10 mA 	Get a Quote >
DAQM908A	40-channel single-ended multiplexer	Common low (without 4-wire measurements) 60 ch/s, up to 300 V, 1 A	Get a Quote >
DAQM909A	4-channel simultaneous sampling digitizer	Differential inputs, up to 800 kSa/s sampling rate, 24-bit resolution	Get a Quote >



Featured Resource

4 Considerations for **Data Acquisition Systems**

There is a growing trend across all industries to design feature-rich products. However, you know that the more features added, the more complex the test development becomes.

Explore four considerations for a DAQ that will help you develop a test system optimized for speed and accuracy.







N6700 Modular Power System

N6700: DC power supply — ideal for automated test systems.

- Small 1U mainframe (400, 600, 1200 W) holds up to four output modules.
- Over 35 programmable DC modules offer unique capabilities, performance, voltage, and current combinations.
- Multiple DC electronic load modules, 100 and 200 W, allow current to be sourced and sinked in the same mainframe.



N6705C: DC power analyzer — deep insight without a complex test system.

- Holds and uses up to four N6700 Series modules (600 W total).
- Integrates digital multimeter (DMM), oscilloscope, arb, and data logger capabilities.
- Characterizes and improves battery run time with a source / measure unit (SMU) and BV9200B analysis software.





E36300 Series Triple-Output **DC Power Supplies**



- large display with voltages and currents for all three outputs
- accurate programming / readback as low as 0.03%
- low output ripple and noise less than 2 mVpp / 350 uVrms
- precise data logging plus output sequencing and coupling
- convenient front and rear output terminals
- color-coded outputs and individual knobs for voltage and current
- LAN (LXI Core), USB, and GPIB (optional)

Model	E36311A		E36312A		E36313A				
	Economy model			Most popular			Twice the current		
Power	80 W		80 W		160 W				
Channels	1	2	3	1	2	3	1	2	3
DC output	0 to 6 V	0 to +25 V	0 to -25 V	0 to 6 V	0 to 25 V	0 to 25 V	0 to 6 V	0 to 25 V	0 to 25 V
Rating (0 to 40 °C)	0 to 5 A	0 to 1 A	0 to 1 A	0 to 5 A	0 to 1 A	0 to 1 A	0 to 10 A	0 to 2 A	0 to 2 A
	Get a Quote >		Get a Quote >		Get a Quote >				







E36200 Series DC Power Supplies

- single or dual outputs; easily combine the dual outputs into a single output with 400 W
- auto-parallel the Keysight E36233A 400 W autoranging dual output power supply to create a single 40 A (30 V) output
- auto-series the E36233A to create a single 120 V (10A) output
- programming / readback accuracy as low as 0.03%
- output ripple and noise < 350 μVrms
- data logging plus output sequencing and coupling
- front and rear output terminals
- color-coded outputs and individual knobs for voltage and current
- LAN, USB, and GPIB (optional)

Model	E36231A		E36232A		E36233A		E36234A	
Power	200 W		200 W		400 W		400 W	
Channels	1	l	1		1	2	1	2
DC output Rating (0 to 40 °C)	0 to 30 V	0 to 20 A	0 to 60 V	0 to 10 A	0 to 30 V	0 to 20 A	0 to 60 V	0 to 10 A
	Get a Quote >		Get a Quote >		Get a Quote >		Get a Quote >	





E36150 Series Autoranging **Benchtop Power Supplies**

- Peak power that handles up to three times the maximum power rating to accommodate start-up power surge requirements from electromechanical and high capacitance devices under test
- High performance with precise output accuracy, minimal noise, and excellent load / line regulation
- Adjustable slew rate, data logging, voltage and current meter, four-wire remote sensing, LIST output programming, and digital controls
- Comprehensive overvoltage, overcurrent, and overtemperature provide device protection
- Flexible Keysight BV0003B PathWave BenchVue power supply application and test flow automation support
- Inclusive Keysight BV9200B / BV9201B PathWave BenchVue advanced power control and analysis software assistance
- Scalable and upgradable with Keysight Option E36150ADVU for scope view and arbitrary waveform generator (AWG) functions that offer advanced characterization and power simulation
- Adaptable LAN / LXI, USB, and general purpose interface bus (GPIB) (upgrade option) interfaces

Model	E36154A	E36155A			
Output	1				
Power	800 W				
Voltage	0 to 30 V	0 to 60 V			
Current	0 to 80 A	0 to 40 A			
	Get a Quote>	Get a Quote >			





Featured Resource

4 Ways to Build Your Power **Supply Skills**

Today's designs place higher demands on the systems that power them. You may find that more of your design problems are created by these power systems.

Use these four practical tips to ensure you deliver reliable power during the design phase and get the most out of your power supply.







B2900 Series Precision Source Measure Units (SMUs)

B2900B/BL Series precision SMUs

- minimum source resolution at 10 fA / 100 nV;
- minimum measurement resolution at 10 fA / 100 nV
- maximum output at 210 V, 3.03 A DC
- waveform generation (arbitrary) and digitizing capabilities from 10 µs interval
- integrated 4-quadrant source and measurement capabilities
- 4.3-inch color display supports graphical and numerical view modes
- application software to facilitate PC-based instrument control (free)
- high throughput and SCPI command supporting conventional SMU command set

B2960B/BL Series low-noise power source

- 6.5 digit 2-channel, wide and bipolar voltage / current sourcing (100 nV - 210 V / 10 fA - 10.5 A, 31.8 W)
- noise performance at 10 μVrms, 1nVrms / √Hz with external filter
- precision arbitrary waveform capability with support for seven built-in functions and user-defined waveforms (1 MHz - 10 kHz)
- 4.3-inch color display supports both graphical and numerical view modes
- application software to facilitate PC-based instrument control (free)
- high throughput and SCPI command supporting conventional SMU command set



EL30000 Series Bench DC Electronic Loads

The Keysight EL30000 Series bench DC electronic loads provide superior performance in a compact bench form factor.

- Test up to 600 W, 1 or 2 inputs.
- Operate in constant current (CC), constant voltage (CV), constant resistance (CR), or constant power (CP) modes.
- Make accurate measurements with excellent programming / feedback accuracy.
- Perform static and dynamic tests.
- View measurements on a 4.3-inch LCD color display.
- Transfer data via USB drive, LAN, USB, or GPIB.

Model	Number of inputs	Input power	DC Input voltage	DC Input current	
EL34143A	1	350 W	150 V	60 A	Get a Quote >
EL34243A	2	600 W	150 V	60 A per input, 120 A parallel	Get a Quote >

Need more power?

See the Keysight E36200 Series 200 and 400 W autoranging power supplies.

- **DATA SHEET**
- **ELECTRONIC LOAD FUNDAMENTALS WHITE PAPER**



33500B and 33600A Series **Trueform Waveform Generators**

- Generate Trueform arbitrary waveforms with high fidelity and less jitter and harmonic distortion.
- Access ease-of-use features, such as modulation, sweep, burst, dual-channel coupling, and IQ baseband

			F		Arbitrary waveforms				
Model	Description	Channels Frequency range		Pulse	Std/Opt arb	# Bits	Sample rate	Memory/ Channel	
33509B 33510B	Exclusive Trueform waveform technology with < 40 ps jitter and < 0.04% THD.	1 2	20 MHz	20 MHz	Optional		160		
33511B 33512B		1 2	20 MHZ	20 MHZ	Standard	16	MSa/s	1 M Standard,	
33519B 35520B		1 2	30 MHz	20 MHz	Optional Standard	10	250	250	16 M Optional
33521B 33522B		1 2	30 MH2	30 MHz			MSa/s		
33611A 33612A	Exclusive Trueform waveform technology at higher	1 2	80 MHz	80 MHz	Ctondord	14	660 MSa/s	4 M Standard,	
33621A 33622A	frequency ranges with <1 ps jitter < 0.03% THD.	1 2	120 MHz	100 MHz	Standard	14	1 GSa/s	64 M Optional	





Truevolt Digital Multimeters

- 6.5- and 7.5-digit performance
- graphical capabilities such as trend and histogram charts
- measure very low current, 1 µA range with pA resolution, enabling measurements on very low power devices
- auto-calibration to compensate for temperature drift
- basic measurements such as DCV, ACV, DCI, ACI, 2- and 4-wire resistance, frequency, period, continuity, diode, temperature, and capacitance

Model	Description	Digits of resolution	Max reading rate at 4½ digits (RDGS/S)	Built-in PC interfaces	
34460A	Display DMM results in histogram, bar, and trend charts on color graphical display for easy monitoring and to	6.5	300	USB; optional GPIB, LAN	
34461A	speed up statistical analysis	0.3	1,000	USB, LAN; optional GPIB	
34465A	Comes with a digitizer and advanced triggering capability so you can make more measurements with higher speed,	6.5	50.000	USB, LAN;	
34470A	better accuracy, and more memory	7.5	50,000	optional GPIB	



3458A Digital Multimeter, 8.5-Digit

- Get 8.5-digit resolution with 0.1 ppm transfer accuracy.
- Perform accurate measurements with 8 ppm (0.0008%) DCV accuracy (4 ppm optional).
- Experience a maximum reading rate of 100,000 readings / second.
- Execute measurements that include DC and AC voltage, DC and AC current.
- Measure using 2- and 4-wire resistance, frequency, and period.
- Use the 148K reading memory for prolonged data logging (now comes standard).
- RoHs compliant.



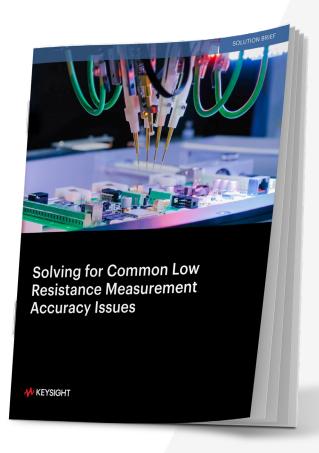


Featured Resource

Solving for Common Low Resistance Measurement Accuracy Issues

A 4-wire measurement method is the most accurate method to measure small resistances, especially in ranges below 100 ohms. The 4-wire method eliminates measurement errors that long leads and switches introduce in your test setups. The method is also very useful when you need to monitor for accurate and precise temperature changes. This solution brief will compare the differences between making a 2-wire and a 4-wire resistance measurement.

DOWNLOAD THE SOLUTION BRIEF





E5063A ENA Vector Network Analyzer*

- frequency options to suit your test needs and budget, upgradable at any time
- PCB manufacturing test capability with Option 011
- support for six languages via softkey and the embedded help manual in English / Simplified Chinese
- support all Keysight calibration kits, including the Keysight N755xA economy ECal module

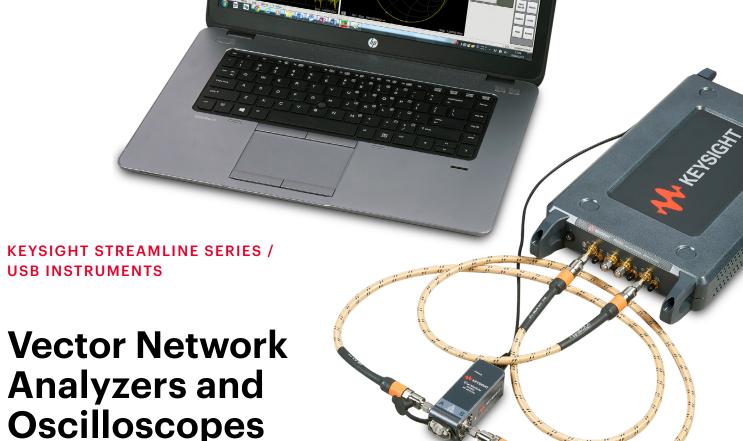
ENA Series E5063A

Frequency	100 kHz to 500 M, 1.5, 3, 4.5, 6.5, 8.5, 14 or 18 GHz			
Test port	2-port 50 Ω S-parameter test set			
D ynamic range	117 dB (spec.), 122 dB (typ.)			
Trace noise	0.005 dBrms (spec.), 0.015 dBrms (typ.)			
Source power	-20 to 0 dBm			
Key software capability	Fixture simulator, Time domain analysis/Test Wizard option ¹ , Wireless power transfer analysis ¹ , and Materials measurement ²			
Interface	LAN, USB (front 2, rear 4), USBTMC, GPIB ¹ , Handler I/O ¹			

- 1. Optional capability.
- 2. External software; Keysight N1500A Material Measurement Suite required.
- * From selected distributors only







Oscilloscopes

- multiple new compact, faceless, USB instruments
- common technology and measurement capabilities as benchtop and modular instruments
- perfect for component and subassembly test, R&D labs, and light manufacturing
- small footprint in size, weight, and power
- ideal for a rack at 1U high

Vector Network Analyzer (VNA)*

Oscilloscope

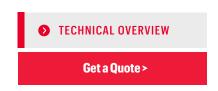
Models		P9372A/B, P9373A/B, 9377B, P9382B, P9384B	P9241A, P9242A, P9243A		
Bandwidth	300 kHz to 26.9 9 kHz to 20 GHz (100 kHz to 44	` '	200 MHz, 500 MHz, and 1 GHz		
Capabilities	 Full 2-port (P937xA/B) and 4-port (P938xB) VNA Ability to extend the number of ports Same calibration and metrology as all trusted Keysight VNAs 		 2 analog channels 5 GSa/s 1,000,000 wfms/s Zone triggering 6-in-1 instrument: arbitrary waveform generator, frequency response analyzer, digital voltmeter, counter, protocol analyzer 		
	P397XA DATA SHEET	P93XXB DATA SHEET	DATA SHEET		
	Get a Quote >		Get a Quote >		

^{*} From selected distributors only

Instrument Control **Software Applications**

PATHWAVE

- Use to connect instruments, record results quickly, and visualize measurements.
- Save time with automated test sequences.
- Analyze and export data in multiple formats.



Control Multiple Instruments

Drag-and-drop your way to connect instruments, record results, and visualize measurements across multiple instruments simultaneously, without the need for programming.

Access Integrated Apps

Choose from a wide array of apps with powerful features to simplify your test workflow — from measurement setup and automation to exporting data and analyzing in-depth results — in one software application. The applications support hundreds of Keysight instruments and are continually expanding.

Automate Test Sequences

Rapidly build custom test sequences with an intuitive interface to quickly create tests that previously required days of traditional programming. The integrated Test Flow application makes it simple to drag and drop controls or measurements into a sequence for rapid test development.

Analyze and Export Data

Get easy access to extensive data, screen captures, trace, and measurement logging capabilities. Export your data in multiple formats in just a few clicks.

Instrument Compatibility

- data acquisition units, digital multimeters, and electronic loads
- FieldFox handheld analyzers, function generators, and USB modular products
- universal counters, oscilloscopes, and photovoltaic array simulators
- power analyzers, power meters and power sensors, and power supplies
- signal generators, spectrum analyzers, and network analyzers



Save 25% on InfiniiVision Oscilloscopes

Save 25% on InfiniiVision oscilloscope application bundles! These power, automotive, and jitter pre-configured bundles are available on the InfiniiVision 3000G, 4000, and 6000 X-Series oscilloscopes.



Bundle option	Discount	Automotive	Power	Jitter
Better	25%	DSO3054GAUT DSOX3054G: 4-channel, 500-MHz oscilloscope with embedded analysis software and function / arbitrary waveform generator D3000AUTB: Automotive software option DP0010A: 250-MHz differential active probe DP0021A-009: automotive accessory kit for DP001xA probes	DSO3054GPWR DSOX3054G: 4-channel, 500-MHz oscilloscope with embedded analysis software and function / arbitrary waveform generator D3000PWRB: power analysis software option N2790A: 100-MHz high-voltage differential active probe 1147B: 50-MHz current probe U1880A: deskew fixture	 DSOX6004JIT DSOX6004A: 4-channel, 1-GHz oscilloscope D6000BDLB: ultimate bundle software option DSOX6WAVEGEN2: 2-channel function / arbitrary waveform generator N2750A: 1.5-GHz differential active probe
Best	25%	MSO4154AAUT • MSOX4154A: 4+16 channel, 1.5-GHz mixed-signal oscilloscope • D4000BDLB: Ultimate bundle software option • DSOX4WAVEGEN2: 2-channel function / arbitrary waveform generator • DP0010A: 250-MHz differential active probe • DP0021A-009: automotive accessory kit for DP001xA probes	MSOX4154PWR • MSOX4154A: 4+16 channel, 1.5-GHz mixed-signal oscilloscope • D4000BDLB: ultimate bundle software option • DSOX4WAVEGEN2: 2-channel function / arbitrary waveform generator • N2790A: 100-MHz high-voltage differential active probe • N7026A: 150-MHz high-sensitivity current probe • U1880A: deskew fixture	MSOX6004JIT • MSOX6004A: 4+16 channel, 1-GHz mixed-signal oscilloscope • DSOX6004A-02G: 2.5-GHz bandwidth option • D6000BDLB: ultimate bundle software option • DSOX6WAVEGEN2: 2-channel function / arbitrary waveform generator • N2751A: 3.5-GHz differential active probe

Save 40% on InfiniiVision Software

Whether you are purchasing a new InfiniiVision oscilloscope or already own one, you can purchase a qualifying InfiniiVision software package at a 40% off discount for a limited time! Instantly unlock the full potential of your InfiniiVision oscilloscope with high-end application software that places automated measurements and advanced analysis at your fingertips, getting you the insight you need to quickly and easily innovate your best designs.



	Automobile	Aerospace & Defense	Embedded	Power	USB	Ultimate Bundle
2000X	D2000AUTB	NA	D2000GENB	NA	NA	D2000BDLB
3000X	D3000AUTB	D3000AERB	D3000GENB	D3000PWRB	D3000USBB	D3000BDLB
4000X	D4000AUTB	D4000AERB	D4000GENB	D4000PWRB	D4000USBB	D4000BDLB
6000X	D6000AUTB	D6000AERB	D6000GENB	D6000PWRB	D6000USBB	D6000BDLB

RF Signal Analyzer and **Signal Generator Bundle**

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