



# Basic Instruments

## Introducing the Keysight InfiniiVision 3000G X-Series Oscilloscope

May - July 2022

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# Jumpstart General-Purpose Electronic Design Using Advanced Analysis Features

Keysight InfiniiVision 3000G X-Series oscilloscopes come with everything you need to begin general-purpose electronic design. Models range in bandwidth from 100 MHz to 1 GHz, 2 or 4 analog channels with an optional 16 digital channels, and standard advanced analysis features. The 3000G X-Series offers a superior user experience and comes with the following features out-of-the-box:

## Pre-loaded Embedded Software

Decode and trigger on the most common embedded serial buses — I2C, SPI, UART / RS232 / RS485, I2S, and USB-PD. Perform advanced analysis with hardware-based mask limit and measurement limit testing, frequency response analysis (Bode plots), and HDTV video analysis.

## Best of the High-End InfiniiVision 6000 X-Series in the 3000G X-Series

Analyze the statistical distribution of jitter and noise with waveform and measurement histograms on the InfiniiVision 3000G X-Series oscilloscopes. You can now achieve this analysis, which was previously possible only on the high-end 6000 X-Series oscilloscopes.

## Standard Integrated Instruments

The 3000G X-Series is multifunctional and comes with standard 6-in-1 instrument integration: oscilloscope, protocol analyzer, frequency response analyzer (Bode plots), 20 MHz arbitrary waveform generator, 3-digit digital voltmeter, and 8-digit counter and totalizer. Get 7-in-1 instrument integration when you select a mixed-signal oscilloscope (MSO) model, equipping the MSO with 16 additional digital channels.

## Simplify Advanced Analysis

Pair the 8.5-inch capacitive touch screen with zone touch triggering and automated software to turn the most advanced measurements into one easy step — simply draw a box with your finger on the screen. An industry-leading waveform update rate of 1,000,000 waveforms per second helps capture elusive glitches and anomalies that are not possible on other oscilloscopes.

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## FEATURED PRODUCTS

# Smart Bench Essentials

4 instruments; 1 connected interface



### EDU36311A DC power supply

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



### 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



### KeySight PathWave BenchVue software

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



### 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



KeysightCare 24/7 Technical Support

# 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 $\mu$ s	800 $\mu$ s	5 ms
Level accuracy	$\pm 0.6$ dB	$\pm 0.6$ dB	$\pm 0.6$ 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
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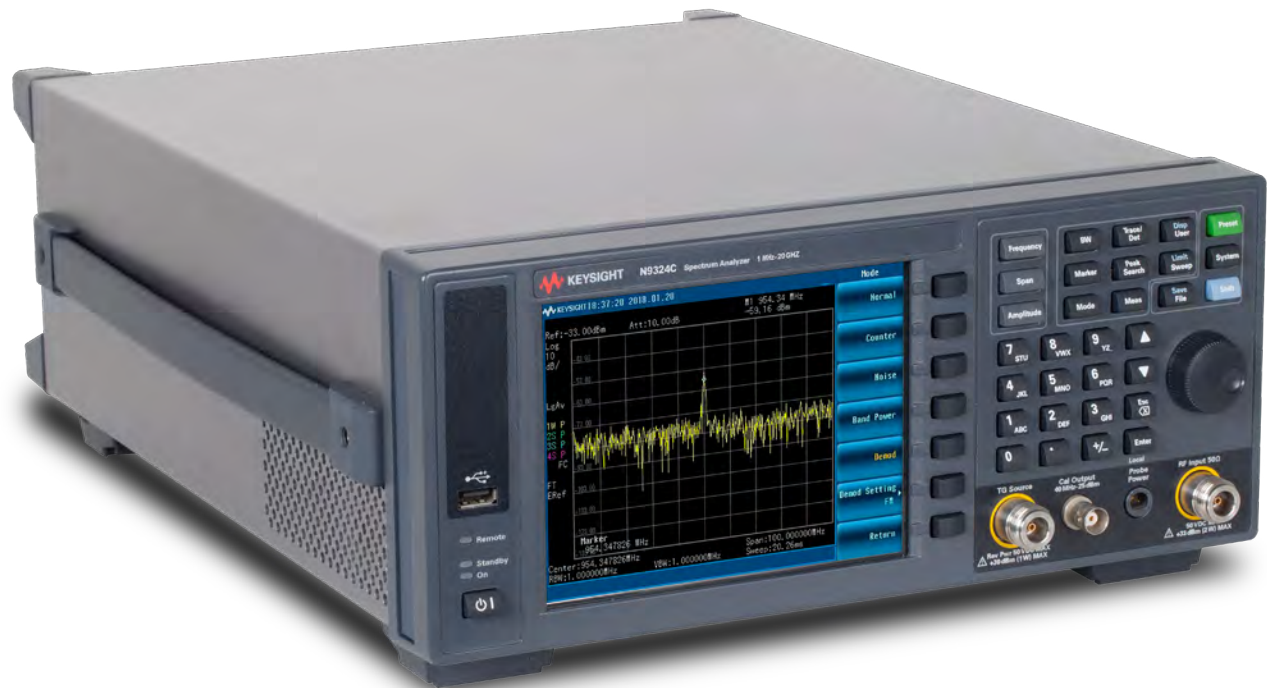


# Basic Spectrum Analyzers (BSAs)\*

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
	<a href="#">DATA SHEET</a>	<a href="#">DATA SHEET</a>	<a href="#">DATA SHEET</a>	<a href="#">DATA SHEET</a>	<a href="#">DATA SHEET</a>
	<a href="#">Get a Quote &gt;</a>	<a href="#">Get a Quote &gt;</a>	<a href="#">Get a Quote &gt;</a>	<a href="#">Get a Quote &gt;</a>	<a href="#">Get a Quote &gt;</a>

\* 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	NFC	Ultimate Bundle
1000X	Standard (DSOX)	NA	Standard	NA	NA	NA	NA
2000X	D2000AUTB	NA	D2000GENB	NA	NA	NA	D2000BDLB
3000X	D3000AUTB	D3000AERB	D3000GENB	D3000PWRB	D3000USBB	D3000NFCB	D3000BDLB
4000X	D4000AUTB	D4000AERB	D4000GENB	D4000PWRB	D4000USBB	D4000NFCB	D4000BDLB
6000X	D6000AUTB	D6000AERB	D6000GENB	D6000PWRB	D6000USBB	NA	D6000BDLB

Model	1000 X-Series	2000 X-Series	3000G X-Series	4000 X-Series	6000 X-Series	Infiniium EXR-Series
<b>Description</b>	Professional-level capabilities in an entry-level oscilloscope <ul style="list-style-type: none"> <li>• Protocol analysis</li> <li>• Bode plots</li> <li>• Fast Fourier transform (FFT)</li> </ul>	Entry-level with more capabilities <ul style="list-style-type: none"> <li>• Serial bus options</li> <li>• Mixed-signal oscilloscope options</li> </ul>	Advanced capabilities simplified <ul style="list-style-type: none"> <li>• Advanced math</li> <li>• Standard embedded software**</li> <li>• Waveform and measurement histograms**</li> </ul>	Everything the 3000G has plus see more of your signal <ul style="list-style-type: none"> <li>• Higher bandwidth</li> <li>• Larger touch screen</li> <li>• Up to four active probes</li> </ul>	Dive deeper and analyze more signal detail <ul style="list-style-type: none"> <li>• Voice control</li> <li>• Advanced jitter analysis, time interval error plots, histograms, and eye diagrams</li> </ul>	Simplify data gathering and analysis <ul style="list-style-type: none"> <li>• 25% lower noise than S-Series</li> <li>• New Fault Hunter feature</li> <li>• Multiscope application</li> </ul>
<b>Bandwidth</b>	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
<b>Channels (analog + digital)</b>	2, 4	2, 2+8, 4, 4+8	2, 2+16, 4, 4+16			4, 4+16, 8, 8+16
<b>Sample rate</b>	Up to 2 GSa/s		Up to 5 GSa/s		Up to 20 GSa/s	Up to 16 GSa/s
<b>Memory depth</b>	Up to 2 Mpts and segmented memory standard	Up to 1 Mpts and segmented memory standard	Up to 4 Mpts and segmented memory standard			Up to 3.2 Gpts
<b>Waveform update rate</b>	>200,000 wfms/s	>200,000 wfms/s	>1,000,000 wfms/s		>450,000 wfms/s	>200,000 wfms/s
<b>Display</b>	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
<b>Built-in instruments</b>	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
	<b>DATA SHEET</b>	<b>DATA SHEET</b>	<b>DATA SHEET</b>	<b>DATA SHEET</b>	<b>DATA SHEET</b>	<b>DATA SHEET</b>
	<a href="#">Get a Quote &gt;</a>	<a href="#">Get a Quote &gt;</a>	<a href="#">Get a Quote &gt;</a>	<a href="#">Get a Quote &gt;</a>	<a href="#">Get a Quote &gt;</a>	<a href="#">Get a Quote &gt;</a>

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

\*\* Only standard on the 3000G X-Series models



# 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 task-oriented, self-guiding menus, or a web browser.

- 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  $\mu$ A DC and 100  $\mu$ A AC) and higher resistance range (1,000 M $\Omega$ ).
- 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.



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DAQ970A/73A Modules	Description	Key specifications	
DAQM900A	20-channel solid-state multiplexer	Up to 450 ch/s	<a href="#">Get a Quote &gt;</a>
DAQM901A	20-channel multiplexer plus 2 current channels	Armature 2 / 4 wire, 80 ch/s with DAQ970A/DAQ973A, up to 300 V, 1 A	<a href="#">Get a Quote &gt;</a>
DAQM902A	16-channel multiplexer	Reed 2 / 4 wire, 250 ch/s, up to 300 V, 50 mA	<a href="#">Get a Quote &gt;</a>
DAQM903A	20-channel actuator / GP switch	SPDT / Form C, 120 ch/s, up to 300 V, 1 A	<a href="#">Get a Quote &gt;</a>
DAQM904A	4 x 8 matrix	Armature 2-wire, 120 ch/s, up to 300 V, 1 A	<a href="#">Get a Quote &gt;</a>
DAQM905A	2 GHz, dual 4-channel, RF mux, 50Ω	Common low (not terminated), 60 ch/s up to 42 V, 0.7 A	<a href="#">Get a Quote &gt;</a>
DAQM907A	Multifunction module	<ul style="list-style-type: none"> <li>Two 8-bit digital I/O ports, up to 42 V, 400 mA</li> <li>26-bit 100 kHz event counter, up to 42 V</li> <li>Two 16-bit analog outputs, up to ±12 V, 10 mA</li> </ul>	<a href="#">Get a Quote &gt;</a>
DAQM908A	40-channel single-ended multiplexer	Common low (without 4-wire measurements) 60 ch/s, up to 300 V, 1 A	<a href="#">Get a Quote &gt;</a>
DAQM909A	4-channel simultaneous sampling digitizer	Differential inputs, up to 800 kSa/s sampling rate, 24-bit resolution	<a href="#">Get a Quote &gt;</a>



# 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 sunk 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.



➤ N6700C, N6701C, & N6702C  
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➤ N6705C DATA SHEET

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# E36300 Series Triple-Output DC Power Supplies

**PATHWAVE**  
SOFTWARE INCLUDED

- 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 Rating (0 to 40 °C)	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
	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
	<a href="#">Get a Quote &gt;</a>			<a href="#">Get a Quote &gt;</a>			<a href="#">Get a Quote &gt;</a>		



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# 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  $\mu$ Vrms
- 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		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
	<a href="#">Get a Quote &gt;</a>		<a href="#">Get a Quote &gt;</a>		<a href="#">Get a Quote &gt;</a>		<a href="#">Get a Quote &gt;</a>	



[DATA SHEET](#)



# 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  $\mu$ s 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  $\mu$ Vrms, 1nVrms /  $\sqrt{\text{Hz}}$  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



➤ [B2900B DATA SHEET](#)

➤ [B2960B DATA SHEET](#)

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# ELECTRIC LOADS

# 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	<a href="#">Get a Quote &gt;</a>
EL34243A	2	600 W	150 V	60 A per input, 120 A parallel	<a href="#">Get a Quote &gt;</a>

**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 signal player.

Model	Description	Channels	Frequency range	Pulse	Arbitrary waveforms			
					Std/Opt arb	# Bits	Sample rate	Memory/ Channel
<b>33509B</b> <b>33510B</b>	Exclusive Trueform waveform technology with < 40 ps jitter and < 0.04% THD.	1 2	20 MHz	20 MHz	Optional	16	160 MSa/s	1 M Standard, 16 M Optional
<b>33511B</b> <b>33512B</b>		1 2			Standard			
<b>33519B</b> <b>33520B</b>		1 2	30 MHz	30 MHz	Optional		250 MSa/s	
<b>33521B</b> <b>33522B</b>		1 2			Standard			
<b>33611A</b> <b>33612A</b>	Exclusive Trueform waveform technology at higher frequency ranges with < 1 ps jitter < 0.03% THD.	1 2	80 MHz	80 MHz	Standard	14	660 MSa/s	4 M Standard, 64 M Optional
<b>33621A</b> <b>33622A</b>		1 2	120 MHz	100 MHz			1 GSa/s	



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# Truevolt Digital Multimeters

- 6.5- and 7.5-digit performance
- graphical capabilities such as trend and histogram charts
- measure very low current, 1  $\mu$ A 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 speed up statistical analysis	6.5	300	USB; optional GPIB, LAN
34461A			1,000	USB, LAN; optional GPIB
34465A	Comes with a digitizer and advanced triggering capability so you can make more measurements with higher speed, better accuracy, and more memory	6.5	50,000	USB, LAN; optional GPIB
34470A		7.5		



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# 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.



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# 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 $\Omega$ S-parameter test set
Dynamic 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 <sup>1</sup> , Wireless power transfer analysis <sup>1</sup> , and Materials measurement <sup>2</sup>
Interface	LAN, USB (front 2, rear 4), USBTMC, GPIB <sup>1</sup> , Handler I/O <sup>1</sup>

1. Optional capability.

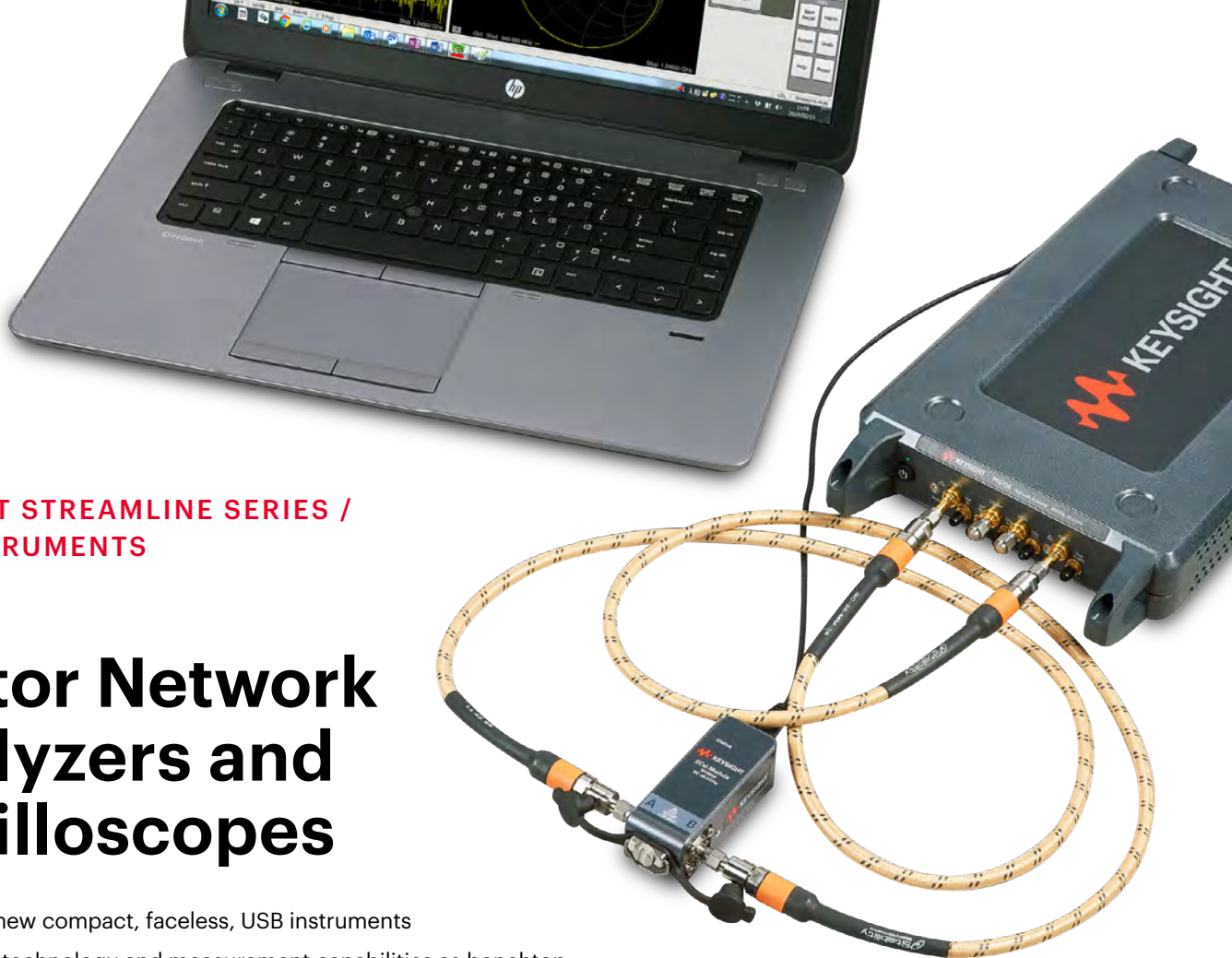
2. External software; Keysight N1500A Material Measurement Suite required.

\* From selected distributors only



➤ DATA SHEET

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## KEYSIGHT STREAMLINE SERIES / USB INSTRUMENTS

# Vector Network Analyzers and 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	P9370A, P9371A, P9372A, P9373A, P9374A, P9375A	P9241A, P9242A, P9243A
Bandwidth	300 kHz to 26.5 GHz	200 MHz, 500 MHz, and 1 GHz
Capabilities	<ul style="list-style-type: none"> <li>• Full 2-port</li> <li>• Ability to extend the number of ports</li> <li>• Same calibration and metrology as all trusted Keysight VNAs</li> </ul>	<ul style="list-style-type: none"> <li>• 2 analog channels</li> <li>• 5 GSa/s</li> <li>• 1,000,000 wfms/s</li> <li>• Zone triggering</li> <li>• 6-in-1 instrument: arbitrary waveform generator, frequency response analyzer, digital voltmeter, counter, protocol analyzer</li> </ul>
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	<a href="#">Get a Quote &gt;</a>	<a href="#">Get a Quote &gt;</a>

\* 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.

▶ TECHNICAL OVERVIEW

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## 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



## SPECIAL OFFERS

# Save 25% on InfiniiVision Oscilloscope

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

[▶ LEARN MORE](#)

Bundle option	Discount	Power	Jitter
<b>Better</b>	25%	<b>DSOX3054PWR</b> <ul style="list-style-type: none"> <li>• DSOX3054T: 4-channel, 500-MHz oscilloscope</li> <li>• D3000PWRB: power analysis software option</li> <li>• DSOX3WAVEGEN: function / arbitrary waveform generator</li> <li>• N2790A: 100-MHz high-voltage differential active probe</li> <li>• 1147B: 50-MHz current probe</li> <li>• U1880A: deskew fixture</li> <li>• DSOXLAN: LAN / VGA module</li> </ul>	<b>DSOX6004JIT</b> <ul style="list-style-type: none"> <li>• DSOX6004A: 4-channel, 1-GHz oscilloscope</li> <li>• D6000BDLB: ultimate bundle software option</li> <li>• DSOX6WAVEGEN2: 2-channel function / arbitrary waveform generator</li> <li>• N2750A: 1.5-GHz differential active probe</li> </ul>
<b>Best</b>	25%	<b>MSOX4154PWR</b> <ul style="list-style-type: none"> <li>• MSOX4154A: 4+16 channel, 1.5-GHz mixed-signal oscilloscope</li> <li>• D4000BDLB: ultimate bundle software option</li> <li>• DSOX4WAVEGEN2: 2-channel function / arbitrary waveform generator</li> <li>• N2790A: 100-MHz high-voltage differential active probe</li> <li>• N7026A: 150-MHz high-sensitivity current probe</li> <li>• U1880A: deskew fixture</li> </ul>	<b>MSOX6004JIT</b> <ul style="list-style-type: none"> <li>• MSOX6004A: 4+16 channel, 1-GHz mixed-signal oscilloscope</li> <li>• DSOX6004A-02G: 2.5-GHz bandwidth option</li> <li>• D6000BDLB: ultimate bundle software option</li> <li>• DSOX6WAVEGEN2: 2-channel function / arbitrary waveform generator</li> <li>• N2751A: 3.5-GHz differential active probe</li> </ul>





# RF Signal Analyzer and Signal Generator Bundle

Save up to 20% on essential RF signal analyzer and signal generator bundles. The Keysight N9000B CXA signal analyzer and Keysight N5166B CXG signal generator provide an easy-to-use, solid foundation for accurate, cost-effective RF testing in general-purpose applications.

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Bundle option	Discount	N9000B CXA	N5166B CXG
Good	10%	<ul style="list-style-type: none"> <li>Frequency range, 3 GHz</li> <li>Preamplifier, 3 GHz</li> <li>Fine resolution attenuator</li> <li>Precision frequency reference</li> </ul>	<ul style="list-style-type: none"> <li>Frequency range, 3 or 6 GHz</li> <li>RF bandwidth, 60 MHz</li> <li>Waveform memory size, 32 MSa</li> </ul>
Better	15%	<ul style="list-style-type: none"> <li>Frequency range, 7.5 GHz</li> <li>Preamplifier, 7.5 GHz</li> <li>Fine resolution attenuator</li> <li>Precision frequency reference</li> </ul>	<ul style="list-style-type: none"> <li>Frequency range, 3 or 6 GHz</li> <li>RF bandwidth, 120 MHz</li> <li>Waveform memory size, 32 MSa</li> </ul>
Best	20%	<ul style="list-style-type: none"> <li>Frequency range, 26.5 GHz</li> <li>Preamplifier, 26.5 GHz</li> <li>Fine resolution attenuator</li> <li>Precision frequency reference</li> </ul>	<ul style="list-style-type: none"> <li>Frequency range, 6 GHz</li> <li>RF bandwidth, 120 MHz</li> <li>Waveform memory size, 512 MSa</li> <li>AM, FM, phase modulation</li> <li>Waveform license 5-pack</li> </ul>



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