

Keysight Technologies Oscilloscopes

www.keysight.com/find/scopefamily



DISTRIBUIDOR AUTORIZADO

TEST TECHNOLOGY TECNOLOGIA DE PRUEBA Y MEDICION

TELS: +52 (222) 431 2816 Y +52 (222) 4080086

www.testtechnology.com.mx



Model Comparison Chart

U1600 Series

U2700 Series

1000 Series

2000 X-Series

3000 X-Series

4000 X-Series



Bandwidth	20 MHz to 200 MHz	100 MHz to 200 MHz	50 MHz to 200 MHz	70 MHz to 200 MHz	100 MHz to 1 GHz	200 MHz to 1.5 GHz
Channels	2	2	2, 4	2, 2+8, 4, 4+8	2, 2+16, 4, 4+16	2, 2+16, 4, 4+16
Sample rate	Up to 2 GSa/s	Up to 1 GSa/s	Up to 2 GSa/s	Up to 2 GSa/s	Up to 5 GSa/s	Up to 5 GSa/s
Memory depth	Up to 2 Mpts	32 Mpts, std.	Up to 10 kpts	100 kpts, std. Up to 1 Mpts, opt.	2 Mpts, std. Up to 4 Mpts, opt.	4 Mpts, std.
Connectivity and storage	<ul style="list-style-type: none"> - USB 2.0 device port, std. - USB 2.0 host port, opt. on U1602B & U1604B 	<ul style="list-style-type: none"> - USB device, std. 	<ul style="list-style-type: none"> - USB 2.0 host (one front, one back) and device 	<ul style="list-style-type: none"> - USB (device and host), std. - LAN, VGA-out, GPIB, opt. 	<ul style="list-style-type: none"> - USB (device and host), std. - LAN, VGA-out, GPIB, opt. 	<ul style="list-style-type: none"> - USB 2.0 (device and host), LAN, VGA-out, std. - GPIB, opt.
Analysis	<ul style="list-style-type: none"> - Waveform - FFT - PC link software - USB cable 	<ul style="list-style-type: none"> - Waveform - FFT 	<ul style="list-style-type: none"> - Waveform - FFT - PC-based Infiniium Offline analysis 	<ul style="list-style-type: none"> - Waveform - FFT - PC-based Infiniium Offline analysis 	<ul style="list-style-type: none"> - Waveform - FFT - PC-based Infiniium Offline analysis 	<ul style="list-style-type: none"> - InfiniScan Zone trigger - Advanced math - FFT - Serial trigger and decode - Function/arb generation - Power analysis - PC-based Infiniium Offline analysis
Market	<ul style="list-style-type: none"> - High-performance handheld - Installation and maintenance - Automotive and A/D industries - Floating voltage measurement for industrial customers 	<ul style="list-style-type: none"> - Portable - Electronics troubleshooting - Functional testing - Educational teaching and research labs 	<ul style="list-style-type: none"> - Portable - Affordable - Low-speed design and debug - Educational teaching and research labs 	<ul style="list-style-type: none"> - Portable - Affordable - Low-speed design and debug - Manufacturing test - Educational teaching and research labs - Five instrument integration maximizes capabilities 	<ul style="list-style-type: none"> - Portable - Affordable - Low-speed design, debug and analysis - Ideal for debugging and troubleshooting - Manufacturing test - Educational teaching and research labs - Five instrument integration maximizes capabilities 	<ul style="list-style-type: none"> - High performance - Portable - Ideal for debugging - Ideal for signal viewing and analysis of infrequent events - Integrated capabilities of five instruments in one - Comprehensive list of applications

U1600 Series Oscilloscopes

20 MHz to 200 MHz handheld scopes

Engineered for performance in rugged and portable applications

- See more clearly and differentiate simultaneous signals from both channels more easily with a 5.7-inch VGA TFT LCD display or 4.5-inch LCD color display*
- Up to 4 hours battery life and robust package – makes an ideal companion for I&M personnel and those on the go
- Scopes isolated channels enable floating measurements capability on the U1610A/20A
- Up to 1 GSa/s per channel real-time sampling rate and 1 Mpts recording length ensure you get high performance, even on a handheld
- 3-in-1 solution: Dual-channel scope, true RMS DMM and real-time data logger
- High-speed USB port for a quick and convenient way to save data into USB flash drive and/or to remote access using the scope**



*5.7-inch VGA TFT LCD display for U1610A/ 20A and 4.5-inch LCD color display for U1602B/04B

**USB host- Opt.001 is optional for U1602B/U1604B only

Scope Additions and Enhancements

Probes

Improve your measurement reliability with our comprehensive selection of probes:

- All models come with the U1561A CAT III 600 V probe
- See our complete list of compatible probes on pages 34-35

Accessories

Don't forget options such as the CAT III 600 V 100:1 probe, desktop charger and Li-Ion battery pack, AC current clamp, temperature adapter, carrying case and USB host capability.

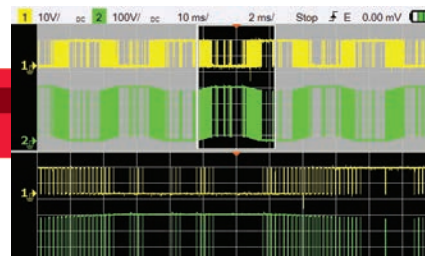
Models and Specifications

	U1602B	U1604B	U1610A	U1620A
Bandwidth	20 MHz	40 MHz	100 MHz	200 MHz
Sample rate	Up to 200 MSa/s*		Up to 1 GSa/s*	Up to 2 GSa/s*
Record length	Up to 125 Kpts		Up to 120 Kpts	Up to 2 Mpts
Channels	2			
Display	4.5" color CSTN LCD (320x240)		5.7" VGA TFT LCD	
Channel isolation	N/A		Yes	
Vertical resolution	8 bits			
Vertical sensitivity	5 mV/div to 100 V/div		2 mV/div to 50 V/div	
Maximum input	CAT III 300 Vrms (up to 400 Hz) from terminal to ground		CAT III 600 V (with 10:1 probe), CAT III 300 V (direct)	
Input impedance	1 M Ω < 20 pF		1 M Ω \pm 1% \approx 22 pF \pm 3 pF	
Timebase range	50 ns to 50 s/div	10 ns to 50 s/div	5 ns/div to 50 s/div	2 ns/div to 50 s/div
Triggering	Edge, pattern, pulse width, video		Edge, glitch, TV, Nth edge	
Dimensions	24.1 cm high x 13.8 cm wide x 6.6 cm deep		27 cm high x 18.3 cm wide x 6.5 cm deep	
Weight	1.5 kg		< 2.5 kg	
Battery life	Up to 4 hours		Up to 3 hours	

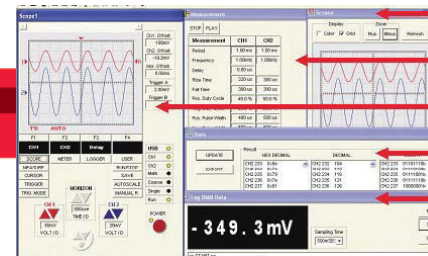
*Single-channel operation



Handheld high performance. In-plant or off-site, take advantage of a full-featured scope with 22 automatic measurement functions, advanced triggering, high sampling rate and deep memory.



High-precision zoom-in capability. Deep memory and a high sampling rate let you capture long time spans and non-repeating signals, then zoom in to the segment of interest to scrutinize subtle details.



Easy connections. PC Link software handles your data collection, storage and documentation needs – or lets you control the unit remotely – using a USB 2.0 full-speed connection.

U2700 Series Oscilloscopes

100 MHz to 200 MHz USB modular scopes

Engineered for versatility and portability without compromising performance

- Provides up to 1 GSa/s (interleaved) sampling and 32 Mpts of memory to help you gain better insight into signal details
- Advanced analysis capabilities built into the bundled KMM (Keysight Measurement Manager) scope software include waveform math and FFT with windowing
- Normal, averaging and peak-detect acquisition modes
- Advanced triggering including edge, pulse width and line-selectable video
- Manual, auto and tracking cursors with ΔT , ΔV and frequency measurements
- More than 25 measurement and math functions
- 1,250-point FFT, Hamming, Blackman-Harris and rectangular windowing
- Dual-screen display with FFT function and keyboard shortcut keys (with KMM software)
- Provides flexibility of standalone or chassis-based operation for dual-play capability



Scope Additions and Enhancements

Probes

Improve your measurement reliability with our complete selection of probes:

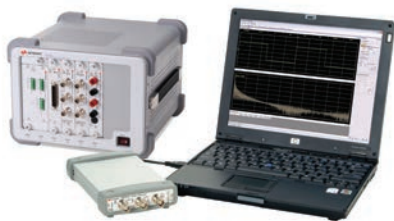
- U2701A comes with the N2862B 10:1, 150 MHz passive probe; U2702A comes with the N2863B 10:1, 300 MHz passive probe
- See the complete list of compatible probes on pages 34-35

Accessories

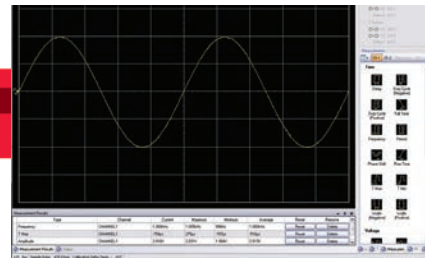
Don't forget options such as the six-slot USB MI chassis, BNC cable and USB secure cable.

Models and Specifications

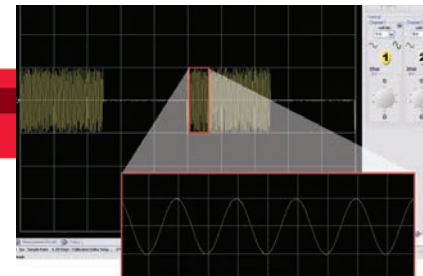
	U2701A	U2702A
Bandwidth	100 MHz	200 MHz
Sample rate	1 GSa/s, 500 MSa/s each channel	
Channels	2	
Memory	32 Mpts, std.	
Vertical resolution	8 bits	
Vertical sensitivity	2 mV/div to 5 V/div	
Maximum input	CAT 1 30 Vrms, 42 Vpk	
Input impedance	1 MΩ: ≈16 pF	
Timebase range	1 ns/div to 50 s/div	
Triggering	Edge, pulse width, TV	
Dimensions	117.00 mm x 180.00 mm x 41.00 mm (with rubber bumper) 105.00 mm x 175.00 mm x 25.00 mm (without rubber bumper)	
Weight	534 g (with rubber bumper) 482 g (without rubber bumper)	



Dual-play capability. Carry powerful test equipment in your bag along with your laptop PC, or use it with other instruments in a chassis.



Simplify waveform analysis with automatic measurements such as rise time, duty cycle and the measurement results panel.



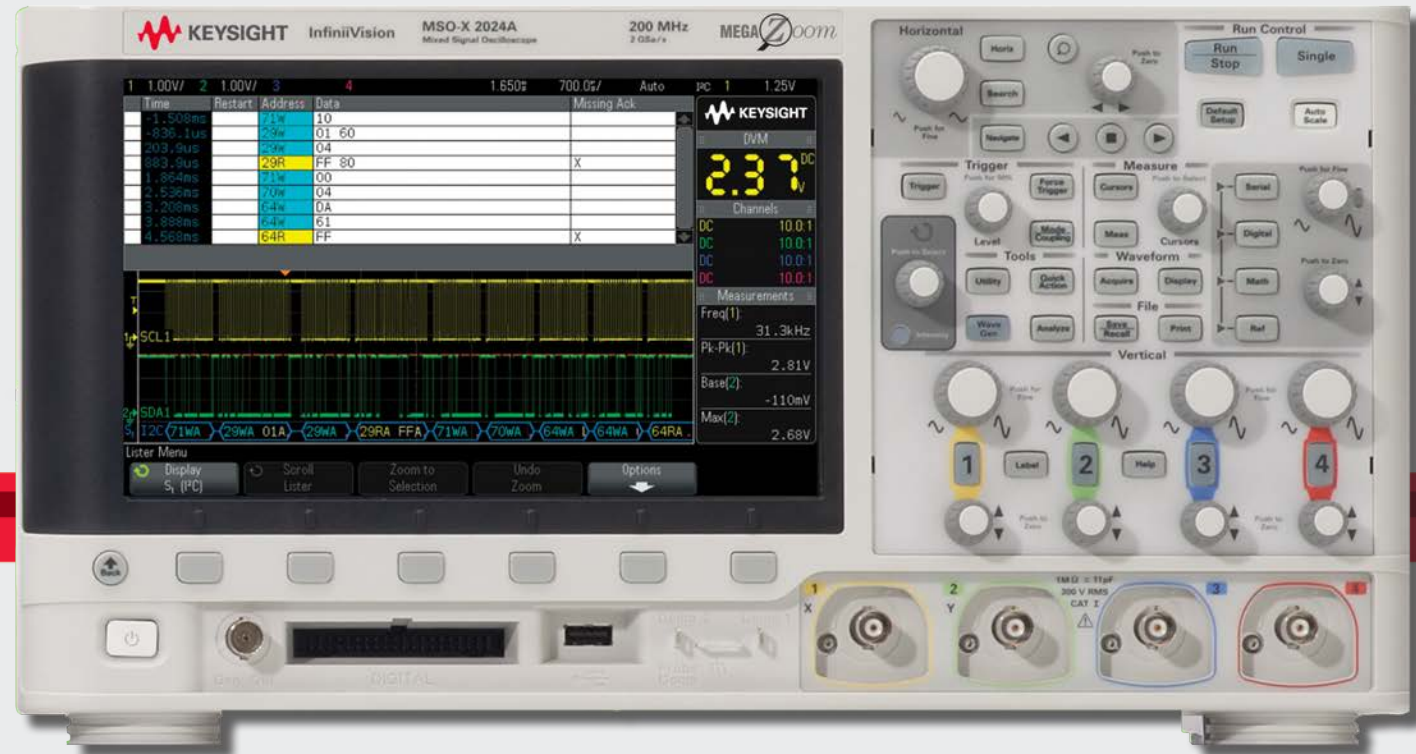
Explore frequency domain characteristics of measured waveforms using FFT analysis (with four windowing functions) and search for peak values of the FFT.

InfiniiVision 2000 X-Series Oscilloscopes

70 MHz to 200 MHz economy scopes

Breakthrough technology delivers more scope for the same budget

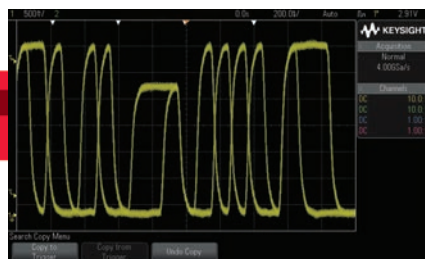
- 8.5-inch WVGA display is the largest in this class with 50% more signal viewing than other scopes
- 50,000 waveforms per second update rate lets you see more of your signal detail and infrequent anomalies more of the time
- 5 instruments in 1: oscilloscope, mixed-signal oscilloscope, WaveGen function generator, serial protocol analyzer and integrated digital voltmeter
- First fully upgradable oscilloscope: bandwidth, memory, MSO, WaveGen and measurement applications
- Supports Infiniium Offline analysis software and Oscilloscope Spectrum Visualizer for vector signal analysis



Models and Specifications

		2002A	2004A	2012A	2014A	2022A	2024A
Bandwidth		70 MHz		100 MHz		200 MHz	
Sample rate		2 GSa/s half channel, 1 GSa/s full channel					
Channels	DSOX	2	4	2	4	2	4
	MSOX	2+8	4+8	2+8	4+8	2+8	4+8
Memory		100 kpts, std. 1 Mpts and segmented memory, opt.					
Display		8.5-inch high definition wide display					
Waveform update rate		> 50,000 waveforms per second					
Vertical resolution		8 bits					
Vertical sensitivity		1 mV/div ~ 5 V/div					
Integrated instruments		Optional MSO, function generator, protocol analyzer, DVM					
Bandwidth limit		Approximately 20 MHz					
Maximum input voltage		CAT I 300 Vrms, 400 Vpk, CAT II 300 Vrms, 400 Vpk					
Input impedance		1 M Ω \pm 2% (11 pF)					
Timebase range		5 ns/div to 50 s/div				2 ns/div to 50 s/div	
Time scale accuracy		25 ppm \pm 5 ppm per year					
Triggering		Edge, pulse width, pattern, video, I ² C*, SPI*, CAN*, LIN*, UART/RS-232/422/485*					
Connectivity		USB Device x2, USB host x 1, std. LAN, VGA, GPIB, opt.					
Dimensions		381 mm wide x 204 mm high x 141 mm deep					
Weight		3.85 kg (8.5 lbs)					

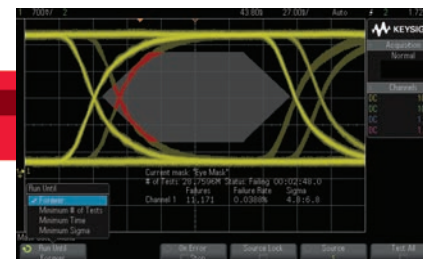
*Optional



See more of your signal more of the time with the largest screen in its class, the deepest memory and the fastest waveform update rates.



Do more with the power of 5 instruments in 1: oscilloscope, logic timing analyzer (opt.), integrated WaveGen arbitrary-function generator (opt.), serial protocol analyzer (opt.), and integrated digital voltmeter (opt.).



Get more investment protection with this fully-upgradable scope, including bandwidth and memory.

Scope Additions and Enhancements

Probes

Improve your measurement reliability with our comprehensive selection of probes:

- DSO/MSOX2002A, 2004A, 2012A and 2014A come with the N2862B 150 MHz passive probe, 10:1 attenuation
- DSO/MSOX2022A and 2024A come with the N2863B 300 MHz passive probe, 10:1 attenuation
- See our complete list of compatible probes on pages 34-35

Accessories

Don't forget options such as the VGA/LAN or GPIB modules, soft carrying case, and rackmount kit.

Memory, Bandwidth, and DSO-to-MSO Upgrades

Protect your investment with the flexibility to upgrade your memory, bandwidth, and add MSO channels at any time.

Applications

Expand your scope's capabilities with our powerful lineup of applications:

- Integrated feature options: WaveGen function generator, 3-digit voltmeter, mask testing, education training kit, and segmented memory
- General and serial protocol applications: I²C, SPI, CAN, LIN, UART/RS-232/422/485 (Serial is only available on analog channels with the 2000 X-Series.)
- See our list of applications on pages 31-33

InfiniiVision 3000 X-Series Oscilloscopes

100 MHz to 1 GHz economy scopes

Breakthrough technology delivers more scope for the same budget

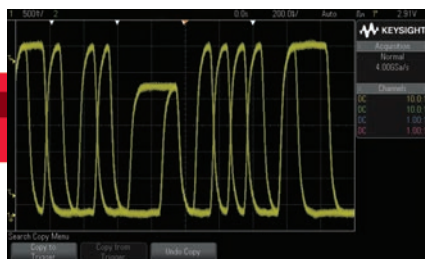
- 8.5-inch WVGA display, with 50% more signal viewing than most other scopes in this class
- 1,000,000 waveforms per second update rate lets you see more of your signal detail and infrequent anomalies more of the time
- Up to 4 Mpts memory means you can capture long, non-repeating signals while maintaining a high sample rate
- 5 instruments in 1: oscilloscope, mixed-signal oscilloscope, WaveGen function generator, serial protocol analyzer and integrated digital voltmeter
- First fully-upgradable oscilloscope: bandwidth, MSO, WaveGen, DVM, and measurement applications



Models and Specifications

		3012A	3014A	3024A	3032A	3034A	3052A	3054A	3102A	3104A
Bandwidth		100 MHz		200 MHz	350 MHz		500 MHz		1 GHz	
Sample rate		4 GSa/s half channel, 2 GSa/s full channel							5 GSa/s (half), 2.5 GSa/s (full)	
Channels	DSOX	2	4	4	2	4	2	4	2	4
	MSOX	2+16	4+16	4+16	2+16	4+16	2+16	4+16	2+16	4+16
Memory		2 Mpts, std. 4 Mpts and segmented memory, opt.								
Display		8.5-inch high definition wide display								
Waveform update rate		> 1,000,000 waveforms per second								
Vertical resolution		8 bits								
Vertical sensitivity		1 mV/div ~ 5 V/div								
Integrated instruments		Optional MSO, waveform/function generator, protocol analyzer, DVM								
Bandwidth limit		Approximately 20 MHz								
Maximum input voltage		CAT I 300 Vrms, 400 Vpk, CAT II 300 Vrms, 400 Vpk								
Input impedance		Selectable 1 M Ω \pm 1% (14 pF), 50 Ω \pm 1.5%								
Timebase range		5 ns/div to 50 s/div		2 ns/div to 50 s/div		1 ns/div to 50 s/div		500 ps/div to 50 s/div		
Time scale accuracy		25 ppm \pm 5 ppm per year								
Triggering		Edge, edge then edge (B trigger), pulse width, pattern, OR, rise/fall time, Nth edge burst, runt, setup & hold, video, enhanced video (HDTV)*, USB* ARINC429*, CAN*, FlexRay*, I ² C*, I ² S*, LIN*, MIL-STD 1553*, SPI*, UART/RS-232/422/485*								
Connectivity		USB device x1, USB host x2, std. LAN, VGA, GPIB, opt.								
Dimensions		38.1 cm wide x 20.4 cm high x 14.1 cm deep								
Weight		3.85 kg (8.5 lbs)								

*Optional



See more of your signal more of the time with the largest screen in its class, the deepest memory and the fastest waveform update rates.



Do more with the power of 5 instruments in 1: oscilloscope, logic timing analyzer (opt.), integrated WaveGen arbitrary-function generator (opt.), serial protocol analyzer (opt.) and integrated digital voltmeter (opt.).



Serial bus triggering and hardware-based protocol decoding means you can efficiently debug your embedded designs that include serial bus communication.

Scope Additions and Enhancements

Probes

Improve your measurement reliability with our comprehensive selection of probes:

- DSO/MSOX3012A and 3014A come with the N2862B 150 MHz passive probe, 10:1 attenuation
- DSO/MSOX3024A comes with the N2863B 300 MHz passive probe, 10:1 attenuation
- DSO/MSOX3032A, 3034A, 3052A, 3054A, 3102A and 3104A come with the N2890A 500 MHz passive probe, 10:1 attenuation
- See our complete list of compatible probes on pages 34-35

Accessories

Don't forget options such as the VGA/LAN or GPIB modules, soft carrying case and rackmount kit.

Memory, Bandwidth and DSO-to-MSO Upgrades

Protect your investment with the flexibility to upgrade your memory, bandwidth and add MSO channels at any time.

Applications

Expand your scope's capabilities with our powerful lineup of applications:

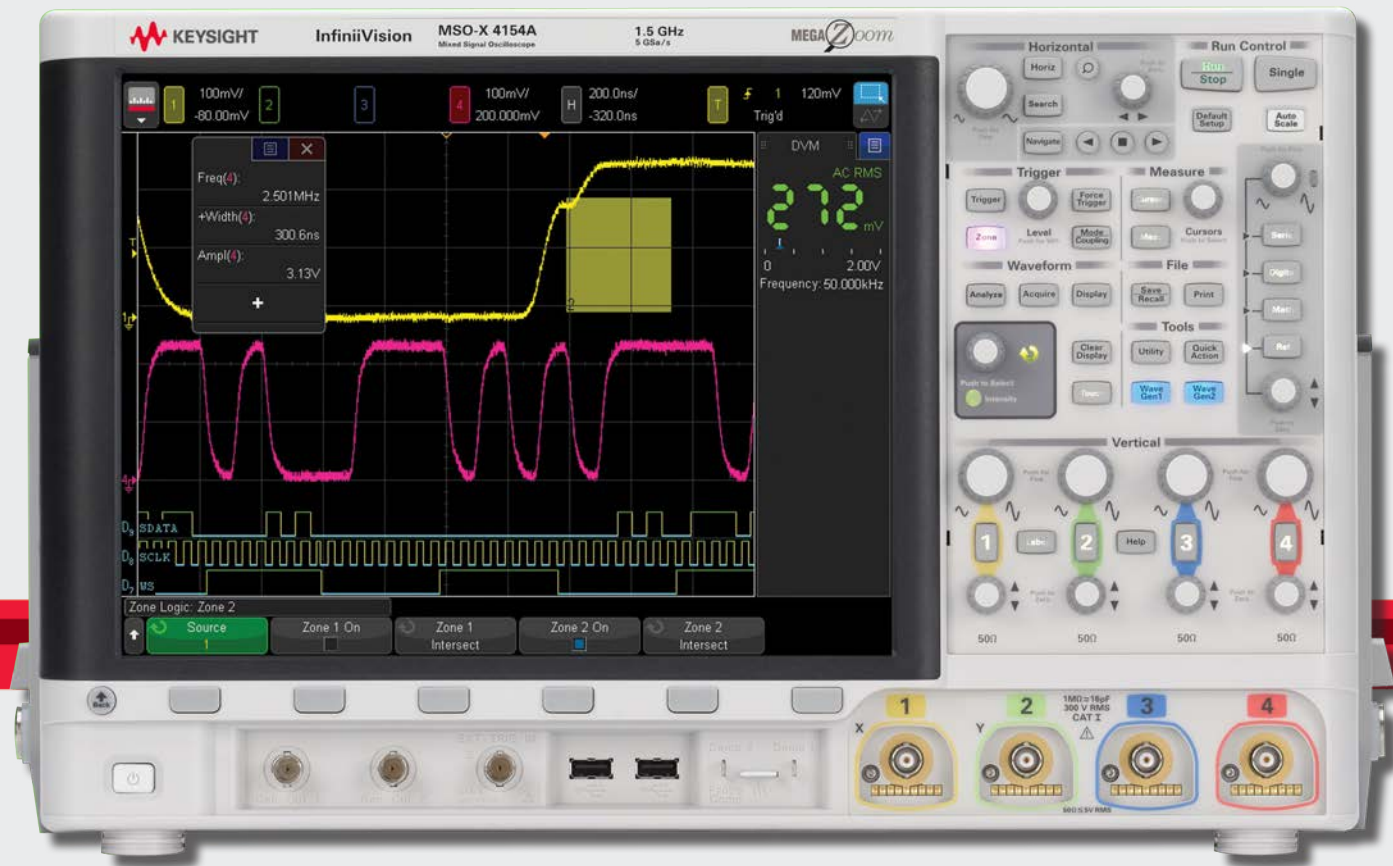
- Integrated feature options: WaveGen function generator, 3-digit voltmeter, mask testing, education training kit and segmented memory
- General and serial protocol applications: I²C, SPI, CAN, LIN, UART/RS-232/422/485, HDTV, FlexRay, ARINC429, MIL-STD 1553 and I²S
- See our list of applications on pages 31-33

www.keysight.com/find/3000xfamily

InfiniiVision 4000 X-Series Oscilloscopes

200 MHz to 1.5 GHz digital storage and mixed signal scopes
Oscilloscope experience redefined

- Industry-exclusive 12.1-inch capacitive touch display is the largest display in this class of oscilloscopes
- 1,000,000 waveforms per second update rate means you can see more of your signal more of the time
- Exclusive InfiniiScan Zone touch triggering simplifies complex triggering to a touch of the screen
- Get 5 instruments in 1: oscilloscope, mixed-signal oscilloscope, serial protocol analyzer, WaveGen dual-channel function/arbitrary generator and 3-digit voltmeter
- Fully upgradable: bandwidth, MSO WaveGen, DVM and measurement applications



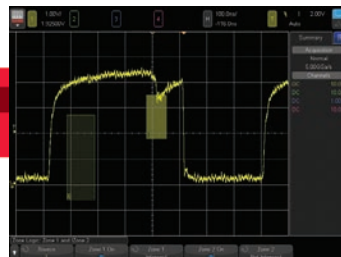
Models and Specifications

		4022A	4024A	4032A	4034A	4052A	4054A	4104A	4154A
Bandwidth		200 MHz		350 MHz		500 MHz		1 GHz	1.5 GHz
Sample rate		5 GSa/s half channel, 2.5 GSa/s full channel							
Channels	DSOX	2	4	2	4	2	4	4	4
	MSOX	2+16	4+16	2+16	4+16	2+16	4+16	4+16	4+16
Memory		4 Mpts and segmented memory, std.							
Display		12.1-inch high-definition capacitive touch display							
Waveform update rate		1,000,000 waveforms per second							
Vertical resolution		8 bits (up to 12 bits with averaging or high-resolution mode)							
Vertical sensitivity		1 mV/div to 5 V/div (1 M Ω and 50 Ω)						1 mV/div to 5 V/div (1 M Ω), 1 mV/div to 1 V/div (50 Ω)	
Integrated instruments		MSO, dual-channel waveform/function generator, protocol analyzer, DVM							
Bandwidth limit		Approximately 20 MHz							
Maximum input voltage		CAT I 300 Vrms, 400 Vpk, CAT II 300 Vrms, 400 Vpk							
Input impedance		Selectable 1 M Ω \pm 1% (16 pF), 50 Ω \pm 1.5%							
Timebase range		2 ns/div to 50 s/div			1 ns/div to 50 s/div		500 ps/div to 50 s/div		
Time scale accuracy		\pm 10 ppm							
Triggering		InfiniiScan Zone touch trigger, edge, edge then edge (B trigger), pulse width, pattern, OR, rise/fall time, Nth edge burst, runt, setup & hold, video, enhanced video (HDTV)*, USB 2.0*, ARINC429*, CAN*, FlexRay*, I ² C*, I ² S*, LIN*, MIL-STD 1553*, SPI*, UART/RS-232/422/485*							
Connectivity		LAN, VGA, USB device x1, USB host x3, std. GPIB, opt.							
Dimensions		45.4 cm wide x 29.8 cm high x 15.6 cm deep							
Weight		6.3 kg (13.9 lbs)							

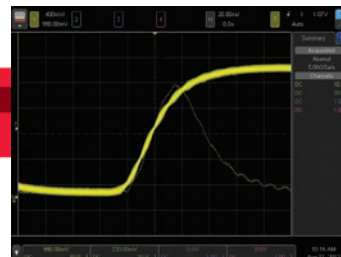
*Optional



Experience the capacitive 12-inch touch screen. Drag measurements, cursors and sidebar panels for quick oscilloscope setup. Use the alpha-numeric touch pad for dramatically faster annotation.



Experience InfiniiScan Zone touch trigger. Triggering has never been this easy before; simply draw a box around your signal of interest for instantaneous triggering.



Experience the speed. Industry's fastest waveform update rate uncovers infrequent anomalies other scopes may miss.



Experience the integration. Save your bench space and improve your measurement efficiencies with built-in optional protocol analyzer, MSO, dual-channel WaveGen and DVM.

Scope Additions and Enhancements

Probes

Improve your measurement reliability with our comprehensive selection of probes.

- All 4000 X-Series models come with one standard N2894A 700-MHz passive probe (10:1 attenuation) per channel
- See complete list of compatible probes on pages 34-35

Accessories

Don't forget options such as the rackmount kit and soft carrying case.

Bandwidth and DSO-to-MSO Upgrades

Protect your investment with the flexibility to upgrade your bandwidth and add MSO channels at any time.

Applications

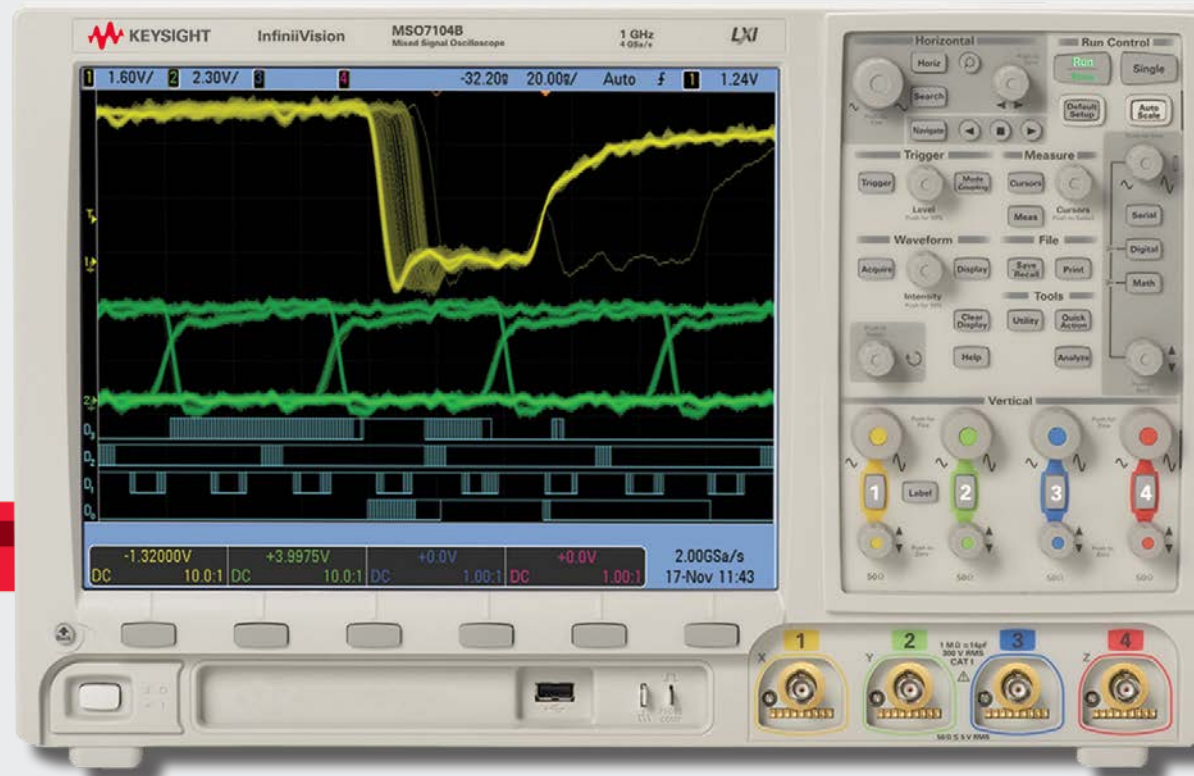
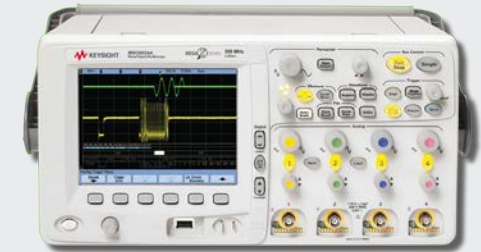
Expand your scope's capabilities with our powerful lineup of applications:

- Integrated feature options: Dual-channel WaveGen, 3-digit voltmeter, mask/limit testing and education training kit
- General and serial protocol applications: MIL-STD 1553, ARINC 429, USB 2.0 (low-, full-, and hi-speed), audio serial (I²S), CAN, LIN, FlexRay, UART/RS-232/232/244/485, I²C, SPI, Xilinx FPGA dynamic probe, power analysis, USB 2.0 signal quality and HDTV
- See our list of applications on pages 31-33

InfiniiVision 6000 & 7000B Series Oscilloscopes

100 MHz to 1 GHz digital storage and mixed signal scopes
Engineered for signal visibility

- Captures and compares analog, digital and serial signals
- 100,000 waveforms per second update rate helps you catch elusive glitches
- Only high-performance scope with battery-power option - enabling 2+ hours without line power (6000A Series)
- Only high-performance 1U-high rack-mountable scope (6000L Series)
- Serial bus trigger/decode options including I²C, SPI, CAN, LIN, I²S, RS-232/UART, MIL-STD 1553 and FlexRay
- DSO models upgradable to MSO whenever you need greater capabilities



Models and Specifications

6000A/L Series		6012A	6014A/L	6032A	6034A	6052A	6054A/L	6102A	6104A/L
7000B Series		7012B	7014B	7032B	7034B	7052B	7054B	7104B	
Bandwidth		100 MHz		Up to 350 MHz		500 MHz		1 GHz	
Sample rate		2 GSa/s				4 GSa/s half channel, 2 GSa/s full channel			
Channels	DSO	2	4	2	4	2	4	2	4
	MSO	2+16	4+16	2+16	4+16	2+16	4+16	2+16	4+16
Memory		8 Mpts, std. Segmented memory, opt.							
Display		XGA display (6000A: 6.3-inch, 7000B: 12-1-inch)							
Waveform update rate		100,000 waveforms per second							
Vertical resolution		8 bits							
Vertical sensitivity		2 mV/div ~ 5 V/div (except 601xA: 1 mV/div ~ 5 mV/div)							
Bandwidth limit		Approximately 20 MHz							
Maximum input voltage		CAT I 300 Vrms, 400 Vpk, CAT II 300 Vrms, 400 Vpk							
Input impedance		Selectable 1 MΩ ± 1% (14 pF), 50 Ω ± 1.5% (except 601xA: 1 MΩ ± 1% (11pF) only)							
Timebase range		5 ns/div to 50 s/div	2 ns/div to 50 s/div	1 ns/div to 50 s/div	500 ps/div to 50 s/div				
Time scale accuracy		≤ ± (15+2* (instrument age in years)) ppm							
Triggering		Edge, pulse width, pattern, TV, duration, sequence, CAN, LIN, USB, I ² C, I ² S, SPI, RS-232, Nth edge burst, MIL-STD 1553, FlexRay							
Connectivity		USB host x2, USB device x1, LAN, XGA output, std. GPIB (opt. 7000B)							
Battery operation		BAT (6000A Series only), opt.							
Dimensions		6000A: 354 mm wide x 188 mm high x 282 mm deep, 6000L: 435 mm wide x 42 mm high x 270 mm deep, 7000B: 454 mm wide x 277 mm high x 173 mm deep							
Weight		6000A: 4.9 kg (10.8 lbs), 6000L: 2.45 kg (5.4 lbs), 7000B: 5.9 kg (13 lbs)							

Scope Additions and Enhancements

Probes

Improve your measurement reliability with our comprehensive selection of probes:

- 603xA, 605xA, 610xA, 703xB, 705xB and 710xB come with the 10073D 10:1, 500 MHz passive probe
- 601xA and 701xB come with the 10074D 10:1, 150 MHz passive probe
- See our complete list of compatible probes on pages 34-35

Accessories

Don't forget options such as the hard transit case, evaluation kit and rackmount kit.

Portable Power

Consider the battery in the 6000A Series for measurements on the go.

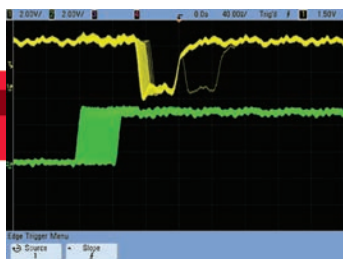
DSO-to-MSO Upgrades

Protect your investment with the flexibility to upgrade to MSO after purchase.

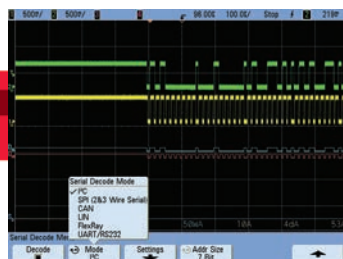
Applications

Expand your scope's capabilities with our powerful lineup of applications:

- Options include I²C, SPI, CAN/LIN, RS-232, FPGA, FlexRay, I²S, MIL-STD 1553, power, offline analysis, vector signal analysis, mask testing and segmented memory
- See our complete list of applications on page 31-33



Fast. MegaZoom III technology delivers up to 100,000 waveform acquisitions per second so the scope responds instantly and you won't miss infrequent events and critical signal detail.



Smart. Customize your scope with a wide range of application packages that provide meaningful insight into application-specific problems.



Battery-power option. Make measurements where line power isn't available with an optional, internal, rechargeable lithium ion battery.



Available in a compact, rack-mount design. The 6000L is 1U high and 19" wide to save valuable rack space. Side and rear air vents allow you to mount other instruments directly above or below. Rackmount brackets and rack rails come standard with every unit.

Probes & Accessories: Engineered for signal access and measurement accuracy

To get top performance from your scope, you need the right probe for your application

Selecting the best probe for the job ensures you can access your signals and make reliable measurements. To complement our scopes, Keysight offers a broad family of probes and accessories. Solutions range from simple, inexpensive passive probes to state-of-the-art high-frequency active probes that meet your toughest probing challenges.

Passive probes

These are the most durable, economical and widely-used probes for doing general-purpose probing with an oscilloscope.

Active probes

Single-ended or differential active probes handle higher bandwidths with lower signal loading. Single-ended active probes are typically used for measuring ground referenced, high-speed signals with low probe loading. With low loading, single-ended probes can be used on high-impedance, high-frequency circuits that would be overloaded with passive probes. Differential probes use a differential amplifier to subtract two input signals resulting in one differential signal for measurement by one channel of the oscilloscope. This allows you to use a standard ground referenced oscilloscope to measure signals that are not referenced to ground.

InfiniiMax Series

These specialized differential active probes complement the Infiniium Series scopes. The InfiniiMax III Series is the first 30 GHz probing system and gives you the industry's flattest frequency response and widest selection of probe heads and accessories. InfiniiMax probing systems span from 1.5 to 30 GHz bandwidth to measure high-speed signals with flexible connectivity solutions. InfiniiMax III+ probes offer InfiniiMode technology, which greatly expands the measurement capability and usability of the probe, letting it measure all the components of a differential signal.

Current probes

Keysight offers a broad range of AC/DC current probes spanning 50 uA to 500 A input ranges. A new series of low-noise probes specifically designed to allow engineers to view and analyze small-current signals helps reduce measurement noise. The N2820A/21A AC/DC current probes offer the industry's highest sensitivity, going all the way down to 50 uA, with a maximum current range of 5 A.

Innovative probe accessories make connections a snap

Connecting to components like fine-pitch devices, surface-mount integrated circuits and DDR ball-grid arrays can be challenging. We remove this challenge by providing accessories that let you connect easily – even hands-free.

To see our entire portfolio of award-winning probes, view the probe catalog at www.keysight.com/find/keysightprobes

	U1600 Series	U2700 Series		1000 Series	2000 X-Series
Scope bandwidth	20 - 200 MHz	100 MHz	200 MHz	60 - 200 MHz	70 - 200 MHz
Probe interface	BNC	BNC		BNC	BNC
Passive 1:1	U1560A			N2870A 10070D	
Passive 10:1	U1561A	10074D N2871A N2872A		N2862B N2863B	N2862B N2863B
High-voltage passive 100:1	U1562A			10076B	
High-voltage passive 1000:1				N2771B	
Low Z					
Active single-ended					
Active differential (high speed)					
Active differential (high voltage)		N2791A N2891A		N2791A N2891A	N2791A N2891A
Current	U1583B	1146B N2893A N2780B/81B/82B/83B ³		1146B N2780B/81B/82B/83B ³	1146B N2780B/81B/82B/83B ³
High-sensitivity current					
Rackmount kit				N2739A	N6456A
Carrying case	U1591A			N2738A	N6457A

For more information on Keysight Technologies' products, applications or services, please contact your local Keysight office.

The complete list is available at:

www.keysight.com/find/contactus

myKeysight myKeysight
www.keysight.com/find/myKeysight

A personalized view into the information most relevant to you.



Three-Year Warranty

www.keysight.com/find/ThreeYearWarranty

Keysight's commitment to superior product quality and lower total cost of ownership. The only test and measurement company with three-year warranty standard on all instruments, worldwide.



Keysight Assurance Plans

www.keysight.com/find/AssurancePlans

Up to five years of protection and no budgetary surprises to ensure your instruments are operating to specification so you can rely on accurate measurements.



www.keysight.com/quality

Keysight Technologies, Inc.
DEKRA Certified ISO 9001:2008
Quality Management System

MIPI is a licensed trademark of MIPI, Inc. in the US and other jurisdictions.

PCI-SIG and PCI Express are US registered trademarks and/or service marks of PCI-SIG.

www.keysight.com/find/scopefamily



DISTRIBUIDOR AUTORIZADO

TEST TECHNOLOGY TECNOLOGIA DE PRUEBA Y MEDICION

TELS: +52 (222) 431 2816 Y +52 (222) 4080086

www.testtechnology.com.mx

Americas

Canada	(877) 894 4414
Brazil	55 11 3351 7010
Mexico	001 800 254 2440
United States	(800) 829 4444

Asia Pacific

Australia	1 800 629 485
China	800 810 0189
Hong Kong	800 938 693
India	1 800 112 929
Japan	0120 (421) 345
Korea	080 769 0800
Malaysia	1 800 888 848
Singapore	1 800 375 8100
Taiwan	0800 047 866
Other AP countries	(65) 6375 8100

Europe

Austria	0800 001122
Belgium	0800 58580
Finland	0800 523252
France	0805 980333
Germany	0800 6270999
Ireland	1800 832700
Israel	1 809 343051
Italy	800 599100
Luxembourg	+32 800 58580
Netherlands	0800 0233200
Russia	8800 5009286
Spain	0800 000154
Sweden	0200 882255
Switzerland	0800 805353
United Kingdom	0800 0260637

For other unlisted countries:

www.keysight.com/find/contactus
(BP-07-10-14)

This information is subject to change without notice.

© Keysight Technologies, 2014
Published in USA, September 9, 2008-2014
5989-7650EN

www.keysight.com