

Agilent Technologies InfiniiVision 7000 Series Oscilloscopes

Data Sheet

Engineered for the best signal visibility

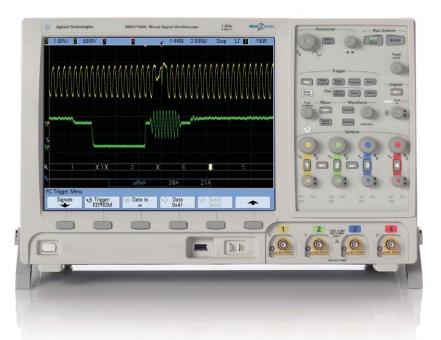


If you haven't purchased an Agilent scope lately, why should you consider one now?

Agilent has been the fastest growing oscilloscope supplier since 1997 (source: Prima Data, 2007). Wonder why? Agilent engineers developed the InfiniiVision 7000 Series with advanced technology that will allow you to see more subtle signal detail and more infrequent events than any other scope on the market. See the InfiniiVision 7000 Series oscilloscope—the industry's best for signal viewing.

There is no better way to experience the superiority of the InfiniiVision 7000 Series scopes than to see it. Contact Agilent today to request an evaluation.

Or visit: www.agilent.com/find/7000





The InfiniiVision 7000 Series offers bandwidths up to 1 GHz. Each model, equipped with a large 12.1" XGA LCD display, comes in an whisper-quiet package that is just 6.5" deep and weighs only 13 pounds.

Model	Bandwidth	Sample rate	Memory	Scope channels	Digital channels	Update rate
DS07032A				2		
DS07034A	350 MHz	2 GSa/s	8 Mpts	4		
MS07032A	350 MHZ	2 d3a/5 0 Wpts	2	16	Up to 100,000 deep-memory	
MS07034A				4	10	waveforms per second, even with
DS07052A				2		deep memory, digital channels
DS07054A	500 MHz	4 GSa/s	8 Mpts	4	1	and serial decode turned on.
MS07052A	300 WII IZ	4 030/3	o Mpts	2	16	and Senai decode turned on.
MS07054A				4	10	
DS07104A	1 GHz	4 GSa/s	8 Mpts			
MS07104A	ו טחצ	4 038/8	ο ίνιρις	4	16	

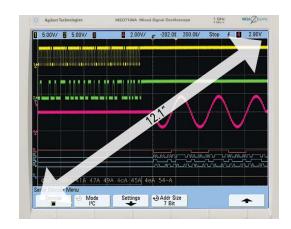
Choose from ten InfiniiVision 7000 Series models. Agilent provides an easy 5-minute DSO-to-MSO upgrade kit for previously purchased 7000 Series DSOs.

What gives the InfiniiVision 7000 Series the best signal visibility?

1. Biggest display

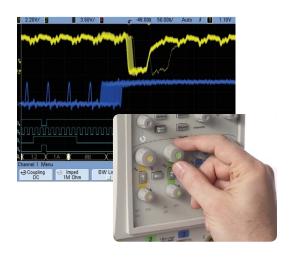
Oscilloscopes are visual tools and large, high-resolution screens make the product better. Bigger displays have become increasingly important as general purpose scopes need more space to display digital and serial signals in addition to traditional scope channels.

The increased display size helps you easily view up to 20 channels simultaneously with serial protocol. At 12.1 inches the display is nearly 40% bigger than any competitive model.



2. Fastest architecture

See a display more representative of the actual signals under test than with any other scope. The InfiniiVision 7000 Series shows jitter, infrequent events, and subtle signal detail that other scopes miss. Turn knobs and the instrument responds instantly and effortlessly. Need to also view digital channels? The instrument stays responsive. Decoding serial packets? Offering the industry's only hardware-accelerated serial bus decode, Agilent's InfiniiVision series delivers serial debug without compromising analog measurements.







InfiniiVision scopes incorporate acquisition memory, waveform processing, and display memory in an advanced .13m ASIC. This patented 3rd generation technology, known as MegaZoom III, delivers up to 100,000 waveforms (acquisitions) per second with responsive deep memory always available.

3. Insightful applications

· I2C, SPI

Customize your general purpose scope. A wide range of application packages provide meaningful insight into your application-specific problems. (See pages 8-9 and 13-14 for more detail.)

Serial with hardware-accelerated decode

- · RS-232/UART
- · CAN/LIN FlexRay

- · Segmented memory
- · Vector signal analysis
- DSO/MSO offline analysis Core-assisted FPGA debug
- Power measurement
- · Secure environment

Your design has analog, digital and serial signals ... shouldn't your scope?

Analog: Up to 1 GHz bandwidth and up to 4 GSa/s sample rate



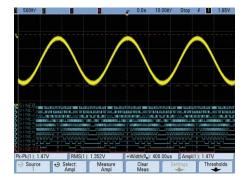
The InfiniiVision 7000 Series scope channels provide faster identification of your most elusive problems –

Revolutionary high-resolution display.

Engineered with an XGA display and 256 levels of intensity grading, see a precise representation of the analog characteristics of the signals you're testing. Equipped with the industry's fastest uncomprimised update rate at 100,000 waveforms/sec update rate, you'll capture critical signal detail and see infrequent events that traditional scopes miss.

MegaZoom III technology. MegaZoom III responsive deep memory captures long, non-repeating signals and maintains high sample rates, allowing you to quickly zoom in on areas of interest. Sample rate and memory depth go hand-in-hand. Deep memory in oscilloscopes sustains a high sample rate over longer time spans.

Digital: 16 digital timing channels with mixed signal triggering



Capture a mix of analog or digital signals.

Compare multiple cycles of digital signals with slower analog signals —

16 high-speed timing channels with up to 2 GSa/s deep memory. Use the timing channels to evaluate control signal relationship.
Or capture and view data buses up to 16 bits wide.
Trigger on and display individual signals or bus waveforms in hex or binary.

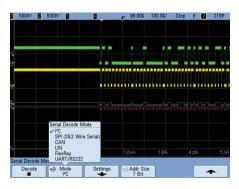
Mixed signal trigger. Trigger across any combination of analog and digital signals simultaneously. See precise analog measurements timed with exact digital content, all in one box.

Applications for digital channels. Designing with Altera or Xilinx FPGAs? Use the FPGA dynamic

probe for rapid internal FPGA measurements.

Using I²C, SPI, or RS-232? Use the analog or digital signals from a 4-channel model to acquire and decode these serial buses.

Serial: Hardware-accelerated decode and trigger for 1²C, SPI, RS-232, CAN, LIN and FlexRay



Capture long streams of serial data and gain fast insight into your problems. Agilent 7000 Series oscilloscopes provide the best serial protocol capabilities in their class —

Serial bus triggering and decoding. Display responsive, on-screen decode of serial bus traffic. Isolate specific events with pinpoint accuracy. Show decode to validate serial bus activity in real time.

Quickly find infrequent errors. Hardware-accelerated decoding increases your probability of capturing elusive events. Agilent oscilloscopes can help you catch that intermittent problem before it becomes an intermittent customer complaint or quality concern.

Other useful features

High resolution mode. Offers up to 12 bits of vertical resolution in real-time, single-shot mode. This is accomplished by serially filtering sequential data points and mapping the filtered results to the display when operating at time base settings greater than 10-μs/div.

Help is at your fingertips. An embedded help system – available in 11 languages – gives you quick answers if you don't understand a feature. Simply press and hold the corresponding frontpanel key, and a screen pops up to explain its function.

Waveform math with FFT. Analysis functions include subtract, multiply, integrate, square root, and differentiate, as well as fast Fourier transforms (FFT).

Peak detect. 250 ps on 500-MHz and 1-GHz models, 500 ps on 350-MHz models. Helps you find narrow glitches.

AutoProbe interface. Automatically sets probe attenuation factors and provides power for selected active probes, including the awardwinning 1130A 1.5-GHz InfiniiMax differential active probe and 1156A 1.5-GHz single-ended active probe systems.

5-digit hardware counter. Measures frequency up to the bandwidth of the scope and provides accurate and repeatable results. Can be increased to 8 digits with an external 10 MHz reference.

Trig Out and Reference Clock In/Out. Provides an easy way to synchronize your scope to other instruments. Use the Trig Out port to connect your scope to a frequency counter for more accurate frequency measurements or to cross trigger other instruments.

Autoscale. Displays all analog and digital active signals, and automatically sets the vertical, horizontal and trigger controls.

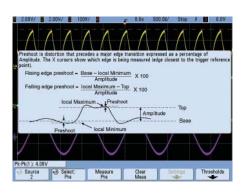
23 automatic measurements with QuickMeas.

Pressing [QuickMeas] brings up the last four automated measurements selected. Cursors automatically track the most recently selected measurement.

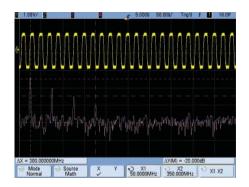
Analog HDTV/EDTV trigger. The 7000 Series comes standard with analog HDTV/EDTV triggering for standards like 1080i, 1080p, 720p and 480p as well as standard video triggering on any line within a field, all lines, all fields and odd or even fields for NTSC, SECAM, PAL and PAL-M video signals.

Bus mode display (on MSO models). Quick and easy read-out of hexadecimal or binary representation of logic signals.

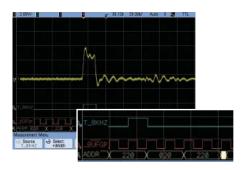
Easy software upgrades. System software is stored in flash ROM that can be upgraded from the scope's built-in USB port or LAN. You can find the latest system and IntuiLink software at: www.agilent.com/find/7000sw



Press and hold a key for instant help.



FFT allows you to view the spectral content of this clock signal.



Digital signals can be displayed individually or as overlayed bus values.

Why does a fast update rate matter?

While bandwidth, sample rate and memory depth are key criteria for deciding which scope to purchase, an equally important characteristic is update rate.

What is update rate?

Update rate is how many waveforms acquisitions per seconds you scope can acquire, process, and display. Oscilloscope "dead-time" is the time it takes for a scope to process and then display an acquired waveform before re-arming it's triggering for the next acquisition. For traditional scopes, this time is often orders of magnitude greater than acquisition time on fast time-per-division settings.

If a glitch occurs during the scope's dead-time, it won't be captured. The key to improving the probability of capturing a signal anomaly during the scope acquisition time is to minimize dead-time.

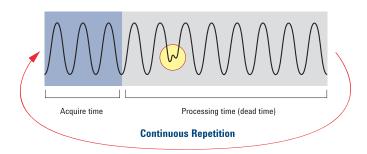
Oscilloscope vendors usually specify what their scope's "best-case" waveform update rates are. Some scope architectures suffer from factors that can seriously degrade the "best-case" update rates spec. Agilent's 7000 Series architecture delivers the world's fastest update rate when using:

- Analog channels
- · Analog and digital
- · Deep memory
- · Serial decode

Why is update rate important?

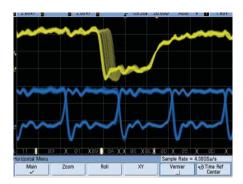
- Responsiveness. If you rotate the timebase control, you expect the oscilloscope to respond immediately – not seconds later after the scope finishes processing data.
- Signal detail. Fast waveform update rates improve the display quality of the waveform that you see on screen.
- Certainty. Fast waveform update rates improve the scope's probability of capturing random and infrequent events.

Update rates directly affect a scope probability of capturing and displaying infrequent and random events. Slow update rates will cause a scope to miss subtle or infrequent signal details.

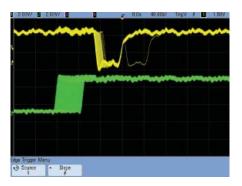




Improves instrument responsiveness



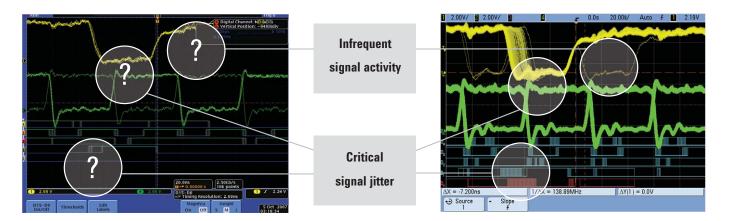
Improves scope display quality



Improves probability of capturing infrequent events

How update rate affects signal visibility

Capturing random and infrequent events on an oscilloscope is all about statistical probabilities. The key to improving the probability of capturing a signal anomaly is to minimize dead-time and take more pictures of the signal in a given timeframe. Here is an example with Tek and Agilent scopes both connected to a target with a glitch that occurs 25 times per second.



Tek MS04104

- · Product data sheet: 35,000 waveforms per second,
- Update rate = 18 waveforms per second with 10 Mpts and digital channels turned on. Resulting measurement shown.
- Probability of capturing the infrequent glitch = 0.09% after running for 10 seconds.
- Average time to capture just one glitch = 128 minutes.

Agilent MS07104A

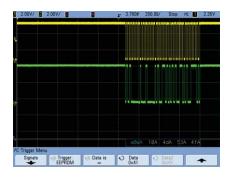
- Product data sheet: 100,000 waveforms per second.
- Update rate = 95,000 waveforms per second with auto memory and digital channels turned on. Resulting measurement shown.
- Probability of capturing the infrequent glitch = 99% after running for 10 seconds.
- Average time to capture just one glitch = 1.5 seconds.

	Memory*		Scope settings	Measured update rates		es	
	Tek	Timebase setting	Digital Channels	Serial Decode	TEK MS04104A	LeCroy WR 104Xi	Agilent MS07104A
Initial setup	10 Kpts	20 ns/div	-	-	41,000	27	95,000
Change timebase	10 Kpts	10 ns/div	-	-	2,700	27	95,000
Add digital channels	10 Kpts	20 ns/div	On	-	125	27	95,000
Increase memory setting	10 Mpts	20 ns/div	On	-	35	27	95,000
Turn on serial decode	10 Mpts	20 ns/div	On	0n	0.2	25	95,000

^{*}Agilent and LeCroy memory depth selection is automatic. Memory depth = display window times sample rate with up to 8 Mpts for Agilent and up to 10 Mpts for LeCroy.

Seeing subtle signal detail and infrequent events requires a scope with fast waveform update rates. Don't take a scope vendor's banner waveform update rate specification at face value. Test it yourself. It's actually pretty easy to characterize a scope's update rate. Run a moderately fast signal (e.g. 50 Mhz) into a scope channel. Measure the scope's average trigger output signal frequency. This is your scope's update rate for the specified timebase setting. Test the update rate of the scope under various setup conditions. Setup conditions that Agilent suggests varying include timebase range, memory depth, and number of channels, including analog, digital, as well as channels assigned for serial decoding.

Software applications



I²C/SPI serial trigger and decode (N5423A or Option LSS on new scope purchases)

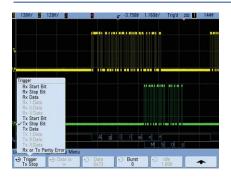
This application displays real-time time-aligned decode of I²C and SPI serial buses. Hardware-accelerated decode means the scope stays responsive and fast.

This application requires a 4-channel DSO or 4-channel MSO and can use any combination of the scope or logic acquisition channels.

For more information:

www.agilent.com/find/l²C-SPI

View on-screen serial decode of an I²C packet.



Trigger on and decode RS-232/UART transmission.

RS-232/UART serial decode and trigger (N5457A or Option 232 on new scope purchases)

Does your design include RS-232 or another type of UART? This application eliminates the need to manually decode bus traffic. Using data captured on the scope or logic channels, the application lets you easily view the information sent over a RS-232 or other UART serial bus.

Display real-time time-aligned decode of transmit and receive lines. The application also enables triggering on RS-232/UART conditions.

This application requires a 4-channel DSO or 4-channel MSO and can use any combination of the scope or logic acquisition channels.

For more information:

www.agilent.com/find/RS-232



Trigger on and decode CAN serial packets.

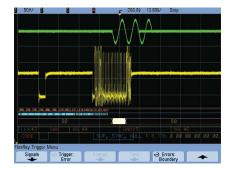
CAN/LIN triggering and decode (N5424A or Option AMS on new scope purchases)

Trigger on and decode serially transmitted data based on CAN and LIN protocols. This application not only provides triggering on complex serial signals, but it also provides unique hardware-accelerated capabilities. Hardware-accelerated triggering and decode means the scope stays responsive and fast.

This application requires a 4-channel DSO or 4-channel MSO and can use any combination of scope or logic acquisition channels.

For more information:

www.agilent.com/find/CAN-LIN



See mixed signal measurements in a FlexRay system using an MSO.

FlexRay triggering and decode (N5432A or Option FRS on new scope purchases)

FlexRay protocol is based on time-triggered and deterministic architecture. Agilent's FlexRay solution for the 7000 Series mixed signal oscilloscopes offers a robust set of FlexRay frame, slot, and error triggering, including the ability to trigger on specific FlexRay communications qualified on base-cycle and cycle-repetition. This

solution combines an Agilent 7000 Series mixed signal oscilloscope (MSO) with an Agilent VPT 1000 vehicle protocol tester for FlexRay protocol analyzer.

This application requires a 4-channel MSO.

For more information:

www.agilent.com/find/flexray

Software applications



Debug and validate your FPGA designs faster and more effectively with the FPGA dynamic probe and an Agilent MSO.

FPGA dynamic probe application (N5406A for Xilinx, N5434A for Altera)

Give your MSO internal FPGA visibility. Agilent's MSO FPGA dynamic probe provides internal FPGA visibility and quick instrument setup using an innovative core-assisted debug approach.

Measurement tasks that previously took hours can be done in a few mouse clicks. In a few seconds,

easily measure a different set of internal signals without changing your FPGA design.

For more information:

www.agilent.com/find/7000-altera www.agilent.com/find/7000-xilinx



Expand the capability of your scope with 89601A vector analysis software.

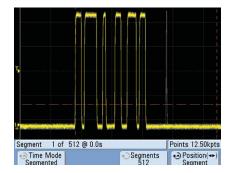
Vector signal analysis software (89601A)

Expand the measurement capability of your scope with the 89601A vector signal analysis software. This advanced DSP based software takes the digitized signal data provided by the scope and provides FFT based spectrum analysis and wide bandwidth digital modulation analysis for wireless communication signals like WCDMA and cdma2000, and wireless networking signals like 802.11 WiFi and 802.16 WiMaxTM.

Take advantage of the super wide bandwidth of your scope to capture and evaluate radar signals.

For more information:

www.agilent.com/find/7000-vsa



Use segmented memory to optimize available memory.

Segmented memory (N5454A or Option SGM on new scope purchases)

Segmented memory optimizes available memory for data streams that have long dead times between activity. The application excels at analyzing signal activity associated with laser pulses, serial buses, and bursty signals such as radar. View an overlay of all signal segments, including MSO

channels and serial decode, while highlighting the current segment. Quickly move between segments to view signal detail associated with a specific segment.

For more information:

www.agilent.com/find/segmented



Use your scope to quickly make and analyze power measurements.

Power application (U1881A)

Need to make power measurements with your scope? Agilent's power application provides a full suite of power measurements that run on a PC connected to an InfiniiVision 7000 Series oscilloscope. Make more accurate power supply efficiency measurements by using an U1880A deskew fixture to deskew your voltage and current probes.

For more information:

www.agilent.com/find/power-app

Agilent InfiniiVision 7000 Series oscilloscopes: Engineered for the best signal visibility

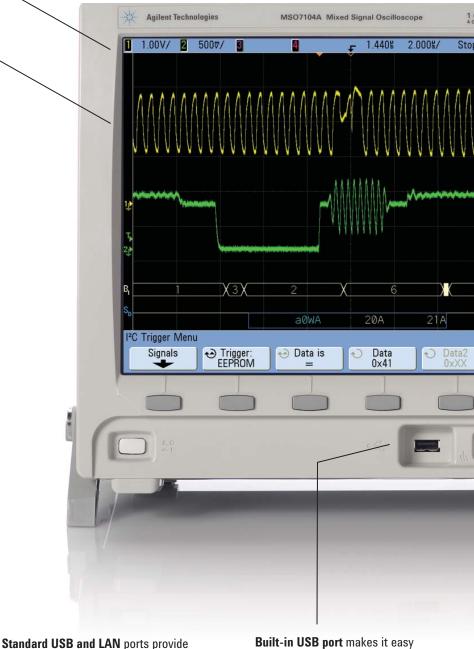
12.1" large display makes it easier to view analog, digital and serial signals.

High-resolution color display with XGA resolution and 256 levels of intensity reveals subtle details that most scopes won't show you.

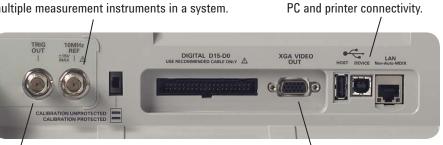
Free IntuiLink data capture PC software makes transferring waveform data or a screen image to a PC fast and easy. Built-in Web viewer via LAN allows for remote measurements and viewing.



Built-in help in eleven languages – Simply press and hold the front-panel key of interest for a few seconds, and a help screen pops up to explain its function.



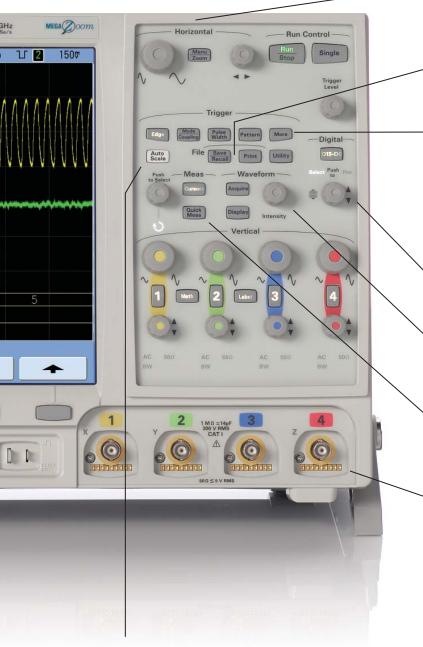
Built-in 10-MHz reference in/out port synchronizes multiple measurement instruments in a system.



Trig Out port provides an easy way to synchronize your scope to other instruments.

An XGA video output port allows you to connect to a large external monitor.

Built-in USB port makes it easy to save your work and update your system software quickly.



Autoscale lets you quickly display any analog or digital active signals, automatically setting the vertical, horizontal and trigger controls for the best display, while optimizing memory.

Dedicated front panel controls make it easy to access the most common scope controls, including vertical and horizontal scaling.

Quickly pan and zoom for analysis with Mega Zoom III's instant response and optimum resolution.

Save screen images to a connected USB storage device.

Standard serial triggering includes I²C, SPI, and USB (optional CAN/LIN, RS-232/UART, and FlexRay advanced triggering and decode).

Standard analog HDTV/EDTV triggering supports triggering on 1080i, 1080p, 720p, and 480p HDTV/EDTV standards.

Digital channel buttons provide quick set-up access.

Intensity knob allows you to see the right level of waveform detail, just like an analog scope.

QuickMeas shows up to four automated measurements with the push of a button.

AutoProbe interface automatically configures the attenuation ratio of the probe and provides probe power for Agilent's active probes.



InfiniiVision 7000 Series 2-channel model

Probes and accessories



Agilent offers a complete family of innovative passive and active probes for the InfiniiVision 7000 Series scopes helps you get your job done easily and accurately. Choosing the correct probe for your application will help to ensure you accurately acquire signals. Below is a general guide on how to choose the type of probe. For the most up-to-date information about Agilent's accessories, please visit our Web site at www.agilent.com/find/scope probes.

Probe type Key characteristics

Passive probes: most common type of probe, rugged and economical with bandwidth generally lower than 600 MHz

10070C 1:1 20 MHz with probe ID

10073C 10:1 500 MHz with probe ID (standard with all 7000 Series scopes)

1165A 10:1 600 MHz with probe ID

High voltage passive probe: view up to 30 kVDC + peak AC voltage referenced to earth ground

10076A 100:1, 4 kV, 250 MHz probe with ID N2771A 1000:1, 30 kV, 50 MHz probe

Single-ended active probes: contains small, active amplifier and enables the probe input capacitance to be very low resulting in high input impedance on high frequencies. Least intrusive of all probes.

1156A 1.5 GHz AutoProbe interface

1144A 800 MHz (requires 1142A – power supply) 1145A 750 MHz 2-ch (requires 1142A – power supply)

Active differential probes: use to look at signals that are referenced to each others instead of earth ground and to look at small signals in the presence of large DC offsets or other common mode signals such as power line noise.

1130A 1.5 GHz InfiniiMax amplifier with AutoProbe interface (requires one

or more InfiniiMax probe head - E2675A, E2668A, E2669A)

N2772A 20 MHz, 1.2 kVDC + peak AC max (requires N2773A power supply) 1141A 200 MHz, 200 VDC + peak AC max (requires 1142A power supply)

Current probes: sense the AC or DC current flowing through a conductor and convert it to a voltage that can be viewed and measured on an oscilloscope. Compatible with 1 M Ω scope input.

1146A 100 kHz, 100 A, AC/DC

 1147A
 50 MHz, 30 A, AC/DC with AutoProbe interface

 N2780A
 2 MHz, 500 A, AC/DC (use with N2779A power supply)

 N2781A
 10 MHz, 150 A, AC/DC (use with N2779A power supply)

 N2782A
 50 MHz, 30 A, AC/DC (use with N2779A power supply)

 N2783A
 100 MHz, 30 A, AC/DC (use with N2779A power supply)

MSO probes: offer the best performance and access to the industry's broad range of logic analyzer probing accessories

01650-61607 With this 40-pin logic cable, Agilent MSOs accept numerous logic

analyzer accessories such as Mictor, Samtec, flying leads or soft

touch connectorless probes.

54620-68701 Included with all MSO models is a logic probe with 2x8 flying

leads (includes 20 IC clips and five ground leads)

For more comprehensive information, refer to the *Agilent 5000, 6000 and 7000 Series Oscilloscopes Probes and Accessories* Data Sheet and Selection Guide (Agilent publication numbers 5968-8153EN/ENUS and 5989-6162EN).

Software applications and other accessories



View and analyze previously acquired scope data on a PC-based offline tool.

Offline viewing and analysis (B4610A)

Need to view and analyze scope data away from your scope? Need to share measurement data with geographically dispersed team members? Save your scope data to a USB or network drive and import the data into a PC-based offline viewer. Pan and zoom. Use searching and filtering to gain

insight on analog and digital buses. Email the data to team members who can use the same tool at their PCs.

For more information:

www.agilent.com/find/InfiniiVisionOffline



Secure environment mode ensures voltile memory is cleared on power off.

Secure environment mode (Option SEC)

Option SEC – secure environment mode provides the highest level of security by ensuring internal nonvolatile memory is clear of all setup and trace settings in compliance with National Industrial Security Program Operation Manual (NISPOM) Chapter 8 requirements. When this option is installed, it will store setup and trace settings to internal volatile memory only.

Volatile memory will be cleared during the power off cycle of the instrument. So you can move the instrument out of a secure area with confidence.

For more information: Option SEC Secure
Environment Mode Option for Agilent 7000 Series
Oscilloscopes Data Sheet



Evaluation kit (N2918A)

The evaluation kit includes a variety of signals that demonstrate MegaZoom III technology with its fast deep memory, superior waveform update rate, high definition display and mixed analog, digital and serial abilities.

Using this scope evaluation kit along with the easy-to-follow user's guide, you can quickly become familiar with how to effectively operate an InfiniiVision 7000 Series scopes.

The evaluation kit helps you discover the power of InfiniiVision 7000 Series oscilloscopes.



Soft carrying case holds probes and other accessories.

Soft carrying case (N2733A)

Need to travel with your oscilloscope? Agilent's soft carrying case provides a convenient method that includes cushioning as well as a storage pouch. The soft carrying works equally well for storing the oscilloscope with its probes and accessories.

Connectivity

The 7000 Series scopes come with the most comprehensive connectivity tools in their class.



LXI class C

LAN eXtensions for Instrumentation (LXI) is a standards-based architecture for test systems. By specifying the interaction of system components, LXI enables fast and efficient test system creation and reconfiguration. The 7000 Series oscilloscopes follow specified LAN protocols and adhere to LXI requirements such as a built-in Web control server, IVI-COM driver, and easy-to-use SCPI commands. The standard Agilent I/O Library Suite makes it easy to configure and integrate instruments in your system.

IntuiLink toolbars and IntuiLink Data Capture

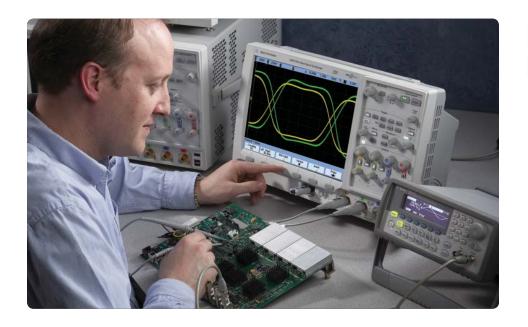
IntuiLink gives you a quick way to move oscilloscope screen shots and data into Microsoft® Word and Excel. These toolbars can be installed from www.agilent.com/find/intuilink.

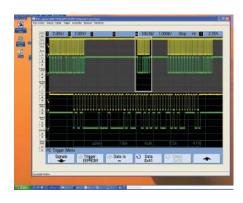
ViewScope logic analyzer and oscilloscope correlation

ViewScope enables simple and free time-correlated measurements between a 7000 Series oscilloscope and an Agilent 16900, 16800, 1690, or 1680 Series logic analyzer. Scope and logic waveforms are integrated into a single logic analyzer waveform display for easy viewing analysis — all with a simple point-to-point LAN connection. You can also cross-trigger the instruments, automatically de-skew the waveforms, and maintain marker tracking between the instruments.

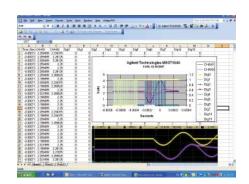
National Instrument drivers

InfiniiVision 7000 Series oscilloscopes are supported by LabVIEW plug-and-play and IVI-C drivers.





Agilent Remote Front Panel running in a Web browser



Use IntuiLink to import scope screen shots and data into Microsoft Word and Excel.



Use ViewScope to time-correlate oscilloscope and logic analyzer measurements.

Agilent InfiniiVision Portfolio

Agilent's InfiniiVision lineup includes 5000, 6000 and 7000 Series oscilloscopes. These share a number of advanced hardware and software technology blocks. Use the following selection guide to determine which best matches your specific needs.



Largest display, shallow depth



Optional battery, 100 MHz MSO



Ideal for ATE rackmount applications



Smallest form factor, lowest price

Bandwidth	7000 Series	6000A Series	6000L Series	5000 Series
100 MHz Bandwidth		•	•	•
300/350 MHz Bandwidth	•	•	•	•
500 MHz Bandwidth	•	•	•	•
1 GHz Bandwidth	•	•	•	
MSO Models	•	•	•	
GPIB Connectivity		•	•	•
Rackmount height	7U	5U	1U	5U
Battery option		•		
Display size	12.1"	6.3"	6.3"	
Footprint (WxHxD)	17.9"x 10.9"x 6.8"	15.7"x 7.4"x 11.1"	17.1"x 1.7"x 10.6"	15.2"x 7.4"x 6.9"



Agilent's InfiniiVision oscilloscope portfolio offers:

- A variety of form factors to fit your environment
- Insightful application software

- · Responsive controls and best signal visibility
 - Responsive deep memory with MegaZoom III

Performance characteristics

Acquisition: scope channels

Sample rate	MSO/DS0703xA: 2 GSa/sec each channel MSO/DS0705xA/710xA: 4 GSa/sec half channel*, 2 GSa/sec each channel Equivalent-time sample rate: 400 GSa/s (when real-time mode is turned off)
Memory depth	2 channels/4 channels
Standard	8 Mpts/4 Mpts
Vertical resolution	8 bits
Peak detection	MSO/DS0703xA: 500-ps peak detect
	MSO/DSO705xA/710xA: 250-ps peak detect
Averaging	Selectable from 2, 4, 8, 16, 32, 64 to 65536
High resolution mode	Average mode with avg = 1
·	12 bits of resolution when ≥10 μs/div at 4 GSa/s or ≥20-μs/div at 2 GSa/s
Filter	Sinx/x interpolation (single shot BW = sample rate/4 or bandwidth of scope,
	whichever is less) with vectors on and in real-time mode

Acquisition: digital channels (7000 Series MSO or MSO-upgraded 7000 Series DSO)

Sample rate	2 GSa/sec one pod**, 1 GSa/sec each pod
Maximum input frequency	250 MHz
Memory depth	One pod/both pods (with scope channels turned off)
Standard	8 Mpts/4 Mpts
	One pod/both pods (with scope channels turned on)
Standard	2.5 Mpts/ 1.25 Mpts
Vertical resolution	1 bit
Glitch detection	2 ns (min pulse width)

^{*} Half channel is when one of channel 1 or 2 is turned on, and/or one of channel 3 or 4 is turned on.

^{**} A pod is a group of eight digital channels, either 0-7 or 8-15.

Vertical system: scope channels

Scope channels	MSO/DSO7xx2A: Ch 1 and 2 simultaneous acquisition MSO/DSO7xx4A: Ch 1, 2, 3 and 4 simultaneous acquisition
Bandwidth (–3 dB)*	MSO/DS0703xA: DC to 350 MHz MSO/DS0705xA: DC to 500 MHz MSO/DS0710xA: DC to 1 GHz
AC coupled	MSO/DS0703xA: 3.5 Hz to 350 MHz MSO/DS0705xA: 3.5 Hz to 500 MHz MSO/DS0710xA: 3.5 Hz to 1 GHz
Calculated rise time (=0.35/bandwidth)	MSO/DS0703xA: 1 nsec MSO/DS0705xA: 700 psec MSO/DS0710xA: 350 psec
Single-shot bandwidth	MSO/DS0703xA: 350 MHz MSO/DS0705xA: 500 MHz MSO/DS0710xA: 1 GHz (in half-channel mode)
Range ¹	MSO/DS0703xA and MSO/DS0705xA: 2 mV/div to 5 V/div (1 M Ω or 50 Ω) MSO/DS0710xA: 2 mV/div to 5 V/div (1 M Ω), 2 mV/div to 1 V/div (50 Ω)
Maximum input	CAT I 300 Vrms, 400 Vpk; transient overvoltage 1.6 kVpk CAT II 100 Vrms, 400 Vpk With 10073C 10:1 probe: CAT I 500 Vpk, CAT II 400 Vpk
Offset range	± 5 V on ranges <10 mV/div; ± 20 V on ranges 10 mV/div to 200 mV/div; ± 75 V on ranges >200 mV/div
Dynamic range	±8 div
Input impedance	1 M Ω ± 1% 14 pF or 50 Ω ± 1.5%, selectable
Coupling	AC, DC
BW limit	25 MHz selectable
Channel-to-channel isolation	DC to max bandwidth >40 dB
Standard probes	10073C shipped standard for each scope channel (1165A probes optional)
Probe ID	Auto probe sense and AutoProbe interface Agilent- and Tektronix-compatible passive probe sense

^{*} Denotes warranted specifications, all others are typical. Specifications are valid after a 30-minute warm-up period and ±10 °C from firmware calibration temperature.

^{1 2} mV/div setting for 100 MHz models and 2 mV/div is a magnification of 4 mV/div setting for 350 MHz to 1 GHz models. For vertical accuracy calculations, use full scale of 16 mV for 1 mV/div sensitivity setting and 32 mV for 2 mV/div sensitivity setting.

Vertical system: scope channels (continued)

ESD tolerance	±2 kV
Noise peak-to-peak	MSO/DSO703xA: 3% full scale or 3 mV, whichever is greater MSO/DSO705xA: 3% full scale or 3.6 mV, whichever is greater MSO/DSO710xA: 3% full scale or 4 mV, whichever is greater
DC vertical gain accuracy*1	±2.0% full scale
DC vertical offset accuracy	\leq 200 mV/div: \pm 0.1 div \pm 2.0 mV \pm 0.5% offset value; >200 mV/div: \pm 0.1 div \pm 2.0 mV \pm 1.5% offset value
Single cursor accuracy ¹	$\pm\{\text{DC vertical gain accuracy} + \text{DC vertical offset accuracy} + 0.2\% \text{ full scale (\sim1/2 LSB)}\}$ $Example:$ for 50 mV signal, scope set to 10 mV/div (80 mV full scale), 5 mV offset, accuracy = $\pm\{2.0\%$ (80 mV) + 0.1 (10 mV) + 2.0 mV + 0.5% (5 mV) + 0.2% (80 mV)} = \pm 4.785 mV
Dual cursor accuracy*1	$\pm\{DC \text{ vertical gain accuracy} + 0.4\% \text{ full scale (\sim1 LSB)}\}$ $Example$: for 50 mV signal, scope set to 10 mV/div (80 mV full scale), 5 mV offset, accuracy = $\pm\{2.0\%$ (80 mV) + 0.4% (80 mV)} = ±1.92 mV

^{*} Denotes warranted specifications, all others are typical. Specifications are valid after a 30-minute warm-up period and ±10 °C from firmware calibration temperature.

Vertical system: digital channels (MSO or MSO-upgraded DSO)

Number of channels	16 logic timing channels – labeled D15 - D0
Threshold groupings	Pod 1: D7 - D0 Pod 2: D15 - D8
Threshold selections	TTL, CMOS, ECL and user-definable (selectable by pod)
User-defined threshold range	±8.0 V in 10 mV increments
Maximum input voltage	±40 V peak CAT I; transient overvoltage 800 Vpk
Threshold accuracy*	\pm (100 mV + 3% of threshold setting)
Input dynamic range	±10 V about threshold
Minimum input voltage swing	500 mV peak-to-peak
Input capacitance	~8 pF with flying leads
Input resistance	100 k Ω ±2% at probe tip
Channel-to-channel skew	2 ns typical, 3 ns maximum

^{*} Denotes warranted specifications, all others are typical. Specifications are valid after a 30-minute warm-up period and ±10 °C from firmware calibration temperature.

^{1 2} mV/div is a magnification of 4 mV/div setting for 350 MHz to 1 GHz models. For vertical accuracy calculations, use full scale of 16 mV for 1 mV/div sensitivity setting and 32 mV for 2 mV/div sensitivity setting.

Horizontal	
Range	MSO/DS0703xA: 2 nsec/div to 50 sec/div MSO/DS0705xA: 1 nsec/div to 50 sec/div MSO/DS0710xA: 500 psec/div to 50 sec/div
Resolution	2.5 ps
Time base accuracy	15 ppm (±0.0015%)
Vernier	1-2-5 increments when off, ~25 minor increments between major settings when on
Delay range	Pre-trigger (negative delay): Greater of 1 screen width or 1 ms Post-trigger (positive delay): 1 s to 500 seconds
Analog delta-t accuracy	Same channel: $\pm 0.0015\%$ reading $\pm 0.1\%$ screen width ± 20 ps Channel-to-channel: $\pm 0.0015\%$ reading $\pm 0.1\%$ screen width ± 40 ps Same channel example (MSO/DSO705xA): For signal with pulse width of 10 µs, scope set to 5 µs/div (50 µs screen width), delta-t accuracy = $\pm \{0.0015\%$ (10 µs) + 0.1% (50 µs) + 20 ps} = 50.17 ns
Logic delta-t accuracy	Same channel: $\pm 0.005\%$ reading $\pm 0.1\%$ screen width $\pm (1 \text{ logic sample period}, 1 \text{ ns})$ Channel-to-channel: $\pm 0.005\%$ reading $\pm 0.1\%$ screen width $\pm (1 \text{ logic sample period}) \pm \text{chan-to-chan skew}$ Same channel example: For signal with pulse width of 10 μ s, scope set to 5 μ s/div (50 μ s screen width), delta-t accuracy = $\pm \{0.005\%$ (10 μ s) + 0.1% (50 μ s) + 1 ns} = 51.5 ns
Modes	Main, zoom, roll, XY, segmented (optional)
XY	Bandwidth: Max bandwidth Phase error @ 1 MHz: <0.5 degrees Z Blanking: 1.4 V blanks trace (use external trigger on MSO/DSO7xx2A, channel 4 on MSO/DSO7xx4A)
Reference positions	Left, center, right
Segmented memory re-arm time	10 μs maximum, 7.5 μs typical
Trigger system	
Sources	MS07xx2A: Ch 1, 2, line, ext, D15 - D0 DS07xx2A: Ch 1, 2, line, ext MS07xx4A: Ch 1, 2, 3, 4, line, ext, D15 - D0 DS07xx4A: Ch 1, 2, 3, 4, line, ext
Modes	Auto, normal (triggered), single
Holdoff time	~60 ns to 10 seconds
Trigger jitter	15 ps rms

Trigger system (continued)

Selections		Edge, pulse width, pattern, TV, duration, sequence, CAN, LIN, FlexRay, USB, I^2 C, SPI, Nth edge burst
	Edge	Trigger on a rising, falling, alternating or either edge of any source
	Pattern	Trigger at the beginning of a pattern of high, low, and don't care levels and/or a rising or falling edge established across any of the analog and digital channels, but only after a pattern has stabilized for a minimum of 2 nsec. The scope channel's high or low level is defined by that channel's trigger level. The logic channel's trigger level is defined by the threshold for the pod, 0 - 7 or 8 - 15.
	Pulse width	Trigger when a positive- or negative-going pulse is less than, greater than, or within a specified range on any of the source channels. Minimum pulse width setting: 5 ns (MSO/DSO703xA scope channels) 2 ns (MSO/DSO705xA/710xA scope channels) 2 ns (logic channels on 7000 Series MSO or MSO-upgraded 7000 Series DSO) Maximum pulse width setting: 10 s
	TV	Trigger using any scope channel on most analog progressive and interlaced video standards including HDTV/EDTV, NTSC, PAL, PAL-M or SECAM broadcast standards. Select either positive or negative sync pulse polarity. Modes supported include Field 1, Field 2, all fields, all lines, or any line within a field. TV trigger sensitivity: 0.5 division of sync signal. Trigger holdoff time can be adjusted in half field increments.
	Sequence	Arm on event A, trigger on event B (edge or pattern), with option to reset on event C or time delay.
	CAN	Trigger on CAN (controller area network) version 2.0A and 2.0B signals. Trigger on the start of frame (SOF) bit (standard). N5424A option supports triggering on remote frame ID (RTR), data frame ID (~RTR), remote or data frame ID, data frame ID and data, error frame, all errors, acknowledge error and overload frame.
	LIN	Trigger on LIN (local interconnect network) sync break at beginning of message frame (standard). N5424A option supports triggering on frame ID.
	FlexRay	N5432A option supports trigger on FlexRay frame ID or time slot or specific error condition, along with cycle-base and repetition-cycle filtering.
	USB	Trigger on USB (universal serial bus) start of packet, end of packet, reset complete, enter suspend, or exit suspend on the differential USB data lines. USB low speed and full speed are supported.
	I ² C	Trigger on I^2C (inter-IC bus) serial protocol at a start/stop condition or user defined frame with address and/or data values. Also trigger on missing acknowledge, address with no acq, restart, EEPROM read, and 10-bit write.
	SPI	Trigger on SPI (serial protocol interface) data pattern during a specific framing period. Supports positive and negative Chip Select framing as well as clock idle framing and user-specified number of bits per frame.
	RS-232/UART	This application eliminates the need to manually decode bus traffic. Using data captured on the scope or digital channels, the application provides the ability to easily view the information sent over a RS-232 serial bus. Display real-time time-aligned decode of transmit and receive lines. The application also enables triggering on RS-232/UART conditions.
	Duration	Trigger on a multi-channel pattern whose time duration is less than a value, greater than a value, greater than a time value with a timeout, or inside or outside of a set of time values. Minimum duration setting: 2 ns Maximum duration setting: 10 s
	Nth edge burst	Trigger on the Nth edge of a burst that occurs after an idle time that you specify. Max edge count: 65,536.

Trigger system (continued)

Autoscale	Finds and displays all active scope and logic (for 7000 Series MSO) channels, sets edge trigger mode on highest-numbered channel, sets vertical sensitivity on scope channels and
	thresholds on logic channels, time base to display ~1.8 periods. Requires minimum voltage >10 mVpp, 0.5% duty cycle and minimum frequency >50 Hz.

Scope channel triggering

Range (internal)	±6 div from center screen
Sensitivity*	<10 mV/div: greater of 1 div or 5 mV; ≥10 mV/div: 0.6 div
Coupling	AC, ~10 Hz on MSO/DSO703xA/705xA/710xA), DC, noise reject, HF reject and LF reject (~50 kHz)

Digital (D15 - D0) channel triggering (7000 Series MSO or MSO-upgraded 7000 Series DSO)

Threshold range (user defined)	±8.0 V in 10 mV increments	
Threshold accuracy*	±(100 mV + 3% of threshold setting)	
Predefined thresholds	TTL = 1.4 V, CMOS = 2.5 V, ECL = -1.3 V	

External (EXT) triggering	MSO/DS07xx2A (2-/2+16-ch models)	MSO/DS07xx4A (4-/4+16-ch models)
Input impedance	1 M Ω ± 3% 14 pF or 50 Ω	2.14 kΩ ±5%
Maximum input	CAT I 300 Vrms, 400 Vpk, CAT II 100 Vrms, 400 Vpk ±15 V With 10073C 10:1 probe: CAT I 500 Vpk, CAT II 400 Vpk 5 Vrms with 50-Ω input	
Range	DC coupling: trigger level ±1 V and ±8 V ±5 V	
Sensitivity	For ±1 V range setting: DC to 500 MHz: 500 mV DC to 100 MHz, 100 mV; For ±8 V range setting: DC to 100 MHz, 250 mV; >100 MHz to bandwidth of oscilloscope: 500 mV	
Coupling	AC (~3.5 Hz), DC, noise reject, HF reject and LF reject (~50 kHz)	
Probe ID	Auto probe sense and AutoProbe interface Agilent- and Tektronix-compatible passive probe sense	

^{*} Denotes warranted specifications, all others are typical. Specifications are valid after a 30-minute warm-up period and ±10 °C from firmware calibration temperature.

Display system

Display	12.1-inch (255 mm x 184 mm) diagonal color TFT LCD	
Throughput of scope channels Up to 100,000 waveforms/sec in real-time mode		
Resolution	XGA – 768 vertical by 1024 horizontal points (screen area); 640 vertical by 1000 horizontal points (waveform area) 256 levels of intensity scale	
Controls	Waveform intensity on front panel. Vectors on/off; infinite persistence on/off, 8×10 grid with intensity control	
Built-in help system Key-specific help displayed by pressing and holding key or softkey of interest. Language support for 11 languages including English, German, French, Russia Traditional Chinese, Simplified Chinese, Korean, Spanish, Portuguese and Italia		
Real-time clock	Time and date (user adjustable)	

Measurement features

Automatic measurements	Measurements are continuously updated. Cursors track last selected measurement. Up to four measurements can be displayed on screen at any one time.	
Voltage (scope channels only)	Peak-to-peak, maximum, minimum, average, amplitude, top, base, overshoot, preshoot, RM standard deviation (AC RMS)	
Time	Frequency, period, + width, — width and duty cycle on any channel. Rise time, fall time, X at max Y (time at max volts), X at min Y (time at min volts), delay, and phase on scope channels only.	
Counter	Built-in 5-digit frequency counter on any channel. Counts up to the scope's bandwidth (1 GH max). The counter resolution can be increased to 8 digits with an external 10-MHz reference	
Threshold definition	Variable by percent and absolute value; 10%, 50%, 90% default for time measurements	
Cursors	Manually or automatically placed readout of horizontal (X, Δ X, 1/ Δ X) and vertical (Y, Δ Y). Additionally logic or scope channels can be displayed as binary or hex values.	
Waveform math	One function of 1-2, 1x2, FFT, differentiate, integrate, square root. Source of FFT, differentiate, integrate: scope channels 1 or 2, 1-2, 1+2, 1x2.	

FFT

Points	Fixed at 1000 points	
Source of FFT	Scope channels 1 or 2 (or 3 or 4 on MSO/DS07xx4A only), 1+2, 1-2, 1*2	
Window	Rectangular, flattop, Hanning	
Noise floor	–50 to –90 dB depending on averaging	
Amplitude	Display in dBV, dBm at 50 Ω	
Frequency resolution	0.05/time per div	
Maximum frequency	50/time per div	

Probe comp output

Storage		
Save/recall (non-volatile)	10 setups and traces can be saved and recalled internally. Optional secure environment mode ensures setups and traces are stored to internal volatile memory so data is erased when power is removed. Compliant to NISPOM Chapter 8 requirements.	
Storage type and format	USB 1.1 host ports on front and rear panels Image formats: BMP (8-bit), BMP (24-bit), PNG (24-bit) Data formats: X and Y (time/voltage) values in CSV format, ASCII XY and binary format and .alb for offline viewing on a PC Trace/setup formats: Recalled	
1/0		
Standard ports	USB 2.0 high-speed device, two USB 1.1 host ports, 10/100BaseT LAN, XGA video output	
Max transfer rate	USB (USBTMC-USB488): 3.5 Mbytes/sec 100 Mbps LAN (TCP/IP): 1 Mbytes/sec	
Supported printers via USB	For a list of currently supported printers visit www.agilent.com/find/InfiniiVision-printers	
General characteristics		
Physical size (WxHxD)	$17.9'' \times 11.7'' \times 8.6''$ (45.4 cm \times 29.8 cm \times 22 cm) with legs extended, with screen cover on $17.9'' \times 10.9'' \times 6.8''$ (45.4 cm \times 27.7 cm \times 17.3 cm) with legs contracted, with screen cover of	
Weight	Net: 5.9 kg (13 lbs) Shipping: 9.3 kg (20.5 lbs)	

Frequency ~2 kHz; Amplitude ~5 V

General characteristics (continued)

Trigger out	When Triggers is selected (delay ~17 ns) 0 to 5 V into high impedance 0 to 2.5 V into 50 Ω When Source Frequency or Source Frequency/8 is selected		
	0 to 580 mV into high impedance 0 to 290 mV into 50 Ω		
	Max frequency output: 350 MHz (in source frequency mode when terminated in 50 Ω) 125 MHz (in source frequency/8 mode when terminated in 50 Ω)		
10 MHz ref in/out	TTL out, 180 mV to 1 V amplitude with 0 to 2 V offset		
Kensington lock	Connection on rear panel for security		
Power requirements			
Line voltage range	~Line 120 W max, 96-144 V/48-440 Hz, 192-288 V/48-66 Hz, automatic selection		
Line frequency	50/60 Hz, 100-240 VAC; 440 Hz, 100-132 VAC		
Power usage	110 W max		
Environmental characteristics			
Ambient temperature	Operating –10 °C to +55 °C; non-operating –65 °C to +71 °C		
Humidity	Operating 95% RH at 40 °C for 24 hr; non-operating 90% RH at 65 °C for 24 hr		
Altitude	Operating to 4,570 m (15,000 ft); non-operating to 15,244 m (50,000 ft)		
Vibration	Agilent class B1 and MIL-PRF-28800F; class 3 random		
Shock	Agilent class B1 and MIL-PRF-28800F; class 3 random; (operating 30g, 1/2 sine, 11 ms duration, 3 shocks/axis along major axis, total of 18 shocks)		
Pollution degree2	Normally only dry non-conductive pollution occurs. Occasionally a temporary conductivity caused by condensation must be expected.		
Typical operator noise	30 dBa at front of instrument, 35 dBa at rear of instrument.		
Indoor use	Rated for indoor use only		
Other			
Measurement categories	CAT I: Mains isolated CAT II: Line voltage in appliance and to wall outlet		
Regulatory information	Safety IEC 61010-1:2001 / EN 61010-1:2001 Canada: CSA C22.2 No. 1010.1:1992 UL 61010B-1:2003		
Supplementary information	The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC, and carries the CE-marking accordingly. The product was tested in a typical configuration with HP/Agilent test systems.		

Ordering information

Model	Bandwidth	Sample rate	Memory depth	Scope channels	Digital channels
DS07032A	350 MHz	2 GSa/s	8 Mpts	2	
DS07034A	350 MHz	2 GSa/s	8 Mpts	4	
MS07032A	350 MHz	2 GSa/s	8 Mpts	2	16
MS07034A	350 MHz	2 GSa/s	8 Mpts	4	16
DS07052A	500 MHz	4 GSa/s	8 Mpts	2	
DS07054A	500 MHz	4 GSa/s	8 Mpts	4	
MS07052A	500 MHz	4 GSa/s	8 Mpts	2	16
MS07054A	500 MHz	4 GSa/s	8 Mpts	4	16
DS07104A	1 GHz	4 GSa/s	8 Mpts	4	
MS07104A	1 GHz	4 GSa/s	8 Mpts	4	16

Accessories included:

DS070xxA	MS070xxA
•	•
•	•
	•
•	•
•	•
•	•
•	•
•	•
•	•
	•

Note: IntuiLink Data Capture software available free on Web at www.agilent.com/find/intuilink

Ordering information (continued)

Options

Product U.S. Price	Description
DSO to MSO upgrade*	N2735A for DS0703xA, N2736A for DS0705xA, N2737A for DS0710xA,
SEC	Secure Environment Mode - Provides compliance with National Industrial Security Program Operating Manual (NISPOM) Chapter 8 requirements (factory-installed option only for new purchase)
A6J	ANSI Z540 compliant calibration

^{*}Includes a 54620-68701 logic cable kit, a label and an upgrade license to activate the MSO features. Installs in less than 5 minutes.

Serial data analysis applications

Option number – user installed	Option number – factory installed	Description
N5424A	AMS	CAN/LIN automotive triggering and decode (4 and 4+16 channel models only)
N5423A	LSS	I ² C/SPI serial decode option (for 4/4+16 channel models only)
N5432A	FRS	FlexRay automotive triggering and decode (4+16 channel models only and required VPT1000)
N5457A	232	RS-232/UART triggering and decode (4 and 4+16 channel models only)

User installed PC-assisted applications	Description
N5406A	FPGA dynamic probe for Xilinx (MSO models only)
N5434A	FPGA dynamic probe for Altera (MSO models only)
B4610A	Offline viewing and analysis of MSO/DSO data on a PC
U1881A	Power measurement and analysis application

Other

Option number – user installed	Option number – factory installed	Description
N5454A	SGM	Segmented memory

Accessories

Product number	Description	
N2733A	Soft carrying case for 7000 Series oscilloscope	
N2732A	Rackmount kit for 7000 Series oscilloscope	
GemStar 5000	Transit case with foam molding customized for InfiniiVision 7000 Series available from GemStar Mfg. www.gemstarmfg.com	

Related Literature

Publication Title	Publication Type	Publication Number
Agilent Technologies Oscilloscope Family Brochure	Brochure	5989-7650EN
Agilent Technologies Probes and Accessories	Selection guide	5989-6162EN
Agilent Technologies InfiniiVision 5000, 6000 and 7000 Series Oscilloscope Probes and Accessories	Data sheet	5968-8153EN/EUS
N5423A I ² C and SPI triggering and hardware-accelerated decode options for InfiniiVision 5000, 6000 and 7000 Series oscilloscopes	Data sheet	5989-5126EN
CAN/LIN (N5424A) and FleyRay (N5432A) options for automotive applications using InfiniiVision 5000, 6000 and 7000 Series oscilloscopes	Data sheet	5989-6220EN
RS-232/UART triggering and hardware-accelerated decode options for InfiniiVision 5000, 6000 and 7000 Series oscilloscopes	Data sheet	5989-7832EN
N5434A FPGA Dynamic Probe for Altera with InfiniiVision 6000 and 7000 Series MSOs	Data sheet	5989-5965EN
N5406A FPGA Dynamic Probe for Xilinx with InfiniiVision 6000 and 7000 Series MSOs	Data sheet	5989-1848EN
Segmented memory option for InfiniiVision 5000, 6000 and 7000 Series oscilloscopes	Data sheet	5989-7833EN
Offline viewing and analysis for InfiniiVision 5000, 6000 and 7000 Series oscilloscopes	Data sheet	5989-7834EN
Power application for InfiniiVision 6000 and 7000 Series oscilloscopes	Data sheet	5989-7835EN
Agilent 81150A pulse function arbitrary noise generator	Data sheet	5989-6433EN
Agilent 33220A 20 MHz function/arbitrary waveform generator	Data sheet	5988-8544EN
Agilent 6900 Series logic analysis mainframes	Data sheet	5989-0421EN
Agilent 16800 Series portable logic analyzers	Data sheet	5989-5063EN
VSA for InfiniiVision 5000, 6000 and 7000 Series oscilloscopes	Application note	5989-1679EN

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