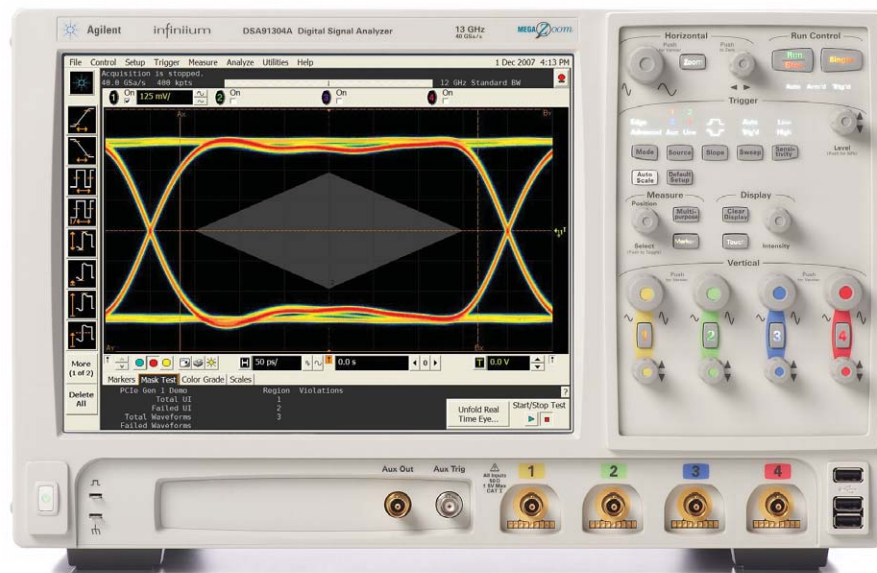


Agilent Infiniium DSO/DSA9000A Series Oscilloscopes

Engineered for superior signal integrity and measurement confidence.

Key specifications

Bandwidth	2.5 - 6 GHz	8 - 13 GHz
Sampling rate	20 GSa/s (all ch)	40 GSa/s (all ch)
Channels	4 channels	
Memory	10 Mpts standard (all ch) Up to 1 Gpts optional (all ch)	
Display	12.1 inch XGA touch screen, 256 levels of intensity	
Triggering	3 level sequence trigger (2 level HW + 1 level SW). Edge, edge transition, edge then edge, glitch, line, pulse width, runt, timeout, patter/pulse range, state, setup/hold, window, HDTV, non-monotonic, measurement, zone qualify.	
Max data transfer rate	22 MSa/s	
Max Wfm update rate	> 400,000 wfm/sec (segment memory mode)	
Applications	Eye pattern analysis, jitter analysis, Ethernut, USB 2.0, PCI EXPRESS®, HDMI, FB-DIMM, Fibre channel, Serial ATA, SAS, DisplayPort, XAUI, DDR1/2/3, FireWire®, I ² C, SPI, CAN, FlexRay	



Superior signal integrity. Industry's lowest noise floor delivers more stable, accurate and repeatable measurements for all high-speed digital and RF designs.

Deep application analysis. Industry-exclusive 1Gpts of memory and combined hardware/software triggering allows for quick capture of complicated signals and infrequent events for the most effective compliance and debugging.

Low Noise. Industry's lowest noise floor provides you the maximum design margin.

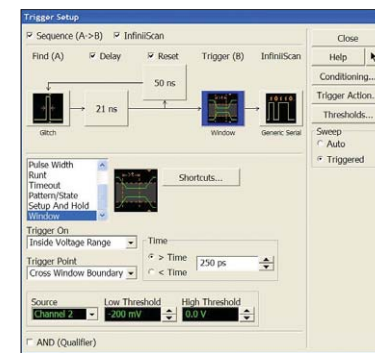
1 Gpts. Industry leading MegaZoom ultra deep, ultra responsive memory captures up to 25 ms of data at 40 GSa/s.

Advanced triggering. Industry's only three-level sequence triggering provides you the maximum triggering flexibility.

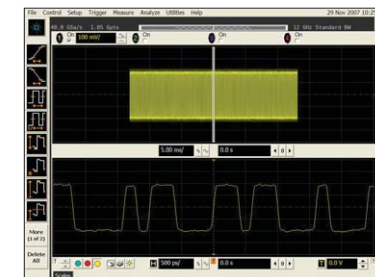
12.1 inch. Large XGA display provides maximum visibility into the scope's analysis.

22 MSa/s. Industry leading data transfer rate assures you a quick data transfer from the scope to your PC/server.

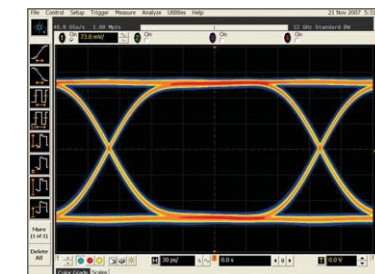
Applications. Industry's widest selection of applications. Application server license solution lets you share licenses across Infiniium scopes.



The InifiniScan Plus trigger system provides the industry's only 3-level sequence trigger.



Acquiring 25 ms of data at 40 GSa/s using 1 Gpts of memory provides the highest chance of capturing your signal of interest.



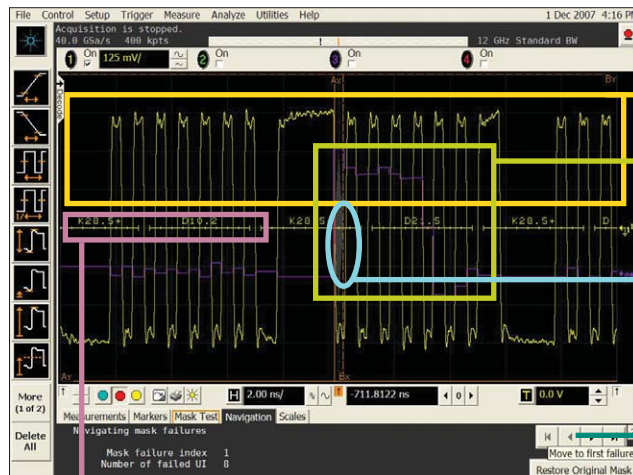
The ultra-low noise floor shows the true performance of your device under test.

Agilent Infiniium DSO/DSA90000A Series Oscilloscopes

Oscilloscope models

Model	Bandwidth	Ch	Sampling rate	Memory
DSO/DSA91304A	13 GHz	4	40 GSa/s all channels	Standard: 10 Mpts (20 Mpts for DSA) on all ch Optional: Up to 1 Gpts on all ch
DSO/DSA91204A	12 GHz	4		
DSO/DSA90804A	8 GHz	4		
DSO/DSA90604A	6 GHz	4	20 GSa/s all channels	
DSO/DSA90404A	4 GHz	4		
DSO/DSA90254A	2.5 GHz	4		

DSA Series comes with standard Opt 20M, DSO90000A-002, DSO90000A-003, DSO90000A-004, and DSO90000A-005.



PCI EXPRESS compliance test pattern

Real-time time interval error (TIE) jitter trend plotting revealed a large TIE jitter associated with this eye failure.

PCI EXPRESS eye pattern violation mask unfold result

Navigation tool to search through each eye pattern failure (example has eight failures).

Real-time 8b10b decode (PCI EXPRESS compliance pattern = K28.5, D10.2, K28.5, D21.5)

Recommended probes

Probes	
1169A	12 GHz InfiniiMax II probe
1168A	10 GHz InfiniiMax II probe
1134A	7 GHz InfiniiMax probe
1132A	5 GHz InfiniiMax probe
1131A	3.5 GHz InfiniiMax probe

Options and accessories

Memory options (DSO/DSA)	
Option 20M	20 Mpts
Option 50M	50 Mpts
Option 100	100 Mpts
Option 200	200 Mpts
Option 500	500 Mpts
Option 01G	1 Gpts

Applications

Analysis/usability software options	
DSO90000A-002	EZJIT jitter analysis software
DSO90000A-003	High-speed serial data analysis software
DSO90000A-004	EZJIT Plus jitter analysis software
DSO90000A-005	Noise reduction and BW control option
DSO90000A-007	Low-speed serial data analysis software
DSO90000A-008	CAN serial data analysis software
DSO90000A-009	InfiniiScan event identification software
DSO90000A-010	Infiniium user defined function
DSO90000A-011	Infiniium application remote interface
DSO90000A-012	Infiniium serial data equalization

Compliance software options	
DSO90000A-021	Ethernet compliance
DSO90000A-022	PCI EXPRESS compliance
DSO90000A-023	HDMI compliance
DSO90000A-024	FB-DIMM compliance
DSO90000A-025	Fiber channel compliance
DSO90000A-027	SAS compliance
DSO90000A-028	DisplayPort compliance
DSO90000A-029	USB 2.0 compliance
DSO90000A-030	XAUI compliance
DSO90000A-031	DDR1 compliance
DSO90000A-032	DDR2 compliance
DSO90000A-033	DDR3 compliance
DSO90000A-035	MIPI D-PHY compliance
DSO90000A-036	10GBASE-T Automated test application
DSO90000A-038	SATA 6Gb/s compliance
DSO90000A-034	DVI compliance

For more information on this and other Agilent scopes please visit
www.agilent.com/find/90000A

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