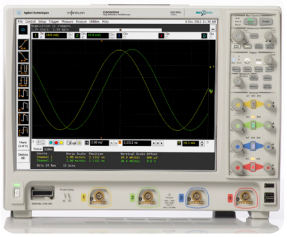
Competitive Comparison: Agilent 9000 H-Series vs. Teledyne LeCroy HDO4000/6000

See Your Signals in HD - The high-definition 9000 H-Series oscilloscope offers up to 12 bits of resolution, which represents 4096 quantization levels, for precision signal viewing. The 9000 H-Series' combination of hypersampling and linear noise reduction technology achieves a noise level up to three times lower than traditional 8-bit oscilloscopes. It is specifically engineered to provide low noise and high-dynamic-range measurement capability in key applications such as medical, automotive, consumer devices, and power analysis.



See Your Signals in HD

- **Precision signal viewing**

  Reveal hidden signal detail with 16X more resolution and up to 3X less noise.

- **Comprehensive measurement capability**

  Get optional digital channels, more than 20 applications, and ultrasensitive current probes for a complete oscilloscope solution.

	Agilent 9000 H-Series		LeCroy HDO 4000		LeCroy HDO 6000	
Bandwidth	250 MHz, 500 MHz, 1 GHz, 2 GHz	√	200 MHz, 350 MHz, 500 MHz, 1 GHz	X	350 MHz, 500 MHz, 1 GHz	X
Bits of resolution	Up to 12 bits	√	12 bits	√	12 bits	√
Max sample rate	Up to 10 GSa/s	√	2.5 GSa/s	X	2.5 GSa/s	X
Std. Memory depth (4 ch)	50 M	√	12.5 M	X	50 M	√
Max memory depth (4 ch)	Up to 500 M	√	Up to 25 M	X	Up to 250 M	X
Display size	38.1 cm (15") (65% more area)	√	30.7 cm (12.1")	X	30.7 cm (12.1")	X
Update rate (1 kPts)	1100 wfms/sec	√	700 wfms/sec	√	700 wfms/sec	√
Mixed signal	Yes	√	No	X	No	X
SSD	Available as option	√	Standard	√	Standard	√
History mode playback	No	X	Yes	√	Yes	√
Spectrum analyzer mode	Yes, InfiniiView/ASV options	√	Yes	√	Yes	√
Sequence/segmented	Yes	√	Yes	√	Yes	√
High sensitivity current/voltage probes	Yes, N2820A/N2821A	√	No	X	No	X

Anticipate ___Accelerate ___Achieve

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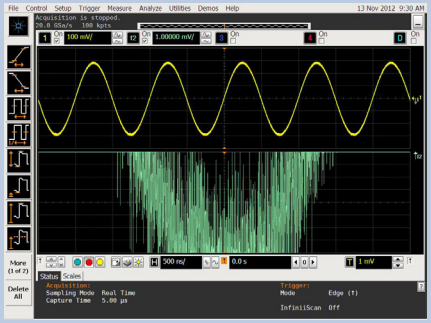
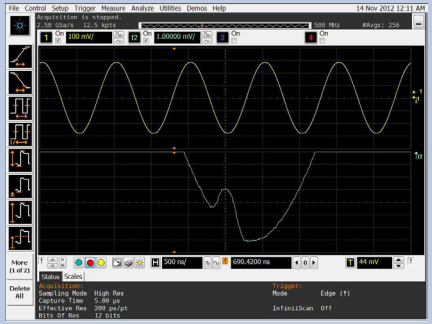
Example of Agilent 9000 H-Series and LeCroy's 12-bit scope resolving a 2 mV pulse riding on an 800 mV sine wave.

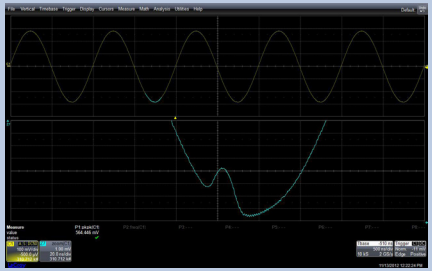
Width and height of the pulse were measured almost identically for both 12-bit scopes (0.20% difference).
The 3X noise reduction when compared to a traditional 8-bit scope is also shown.



Traditional 8-bit scope



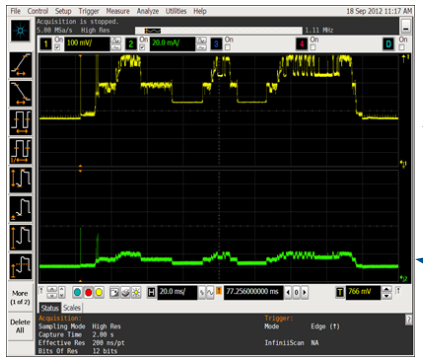
Agilent 12-bit 9000 H-Series



LeCroy 12-bit scope

Complete probing solution

The 9000 H-Series high-definition oscilloscopes are ideal for making high-sensitivity current measurements. The N2820A/ N2821A current probes can measure currents as low as 50 µA and as high as 5 A via two-channel mode. When these probes are used with a 9000 H-Series oscilloscope, it gives you the ability to accurately measure total current consumption, which is the total area under the current curve.



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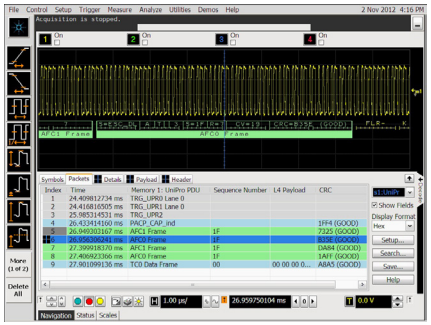
Serial protocol trigger and decode

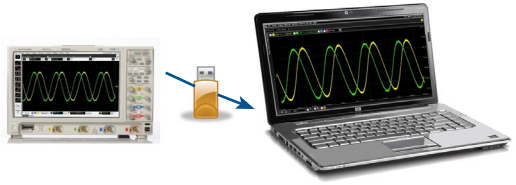
Serial protocol decode and trigger: Quickly move between physical and protocol layer information using the time-correlated tracking marker. Display protocol content using waveform symbols and the industry's first multi-tab protocol viewer. The packets tab shows a high-level view of the packet over time.



NOTE: LeCroy's HDO oscilloscopes can achieve 15 bits of resolution via ERES mode, but due to the limited sampling rate of these oscilloscopes, the bandwidth is severely limited.

InfiniiView oscilloscope analysis software

With Agilent's InfiniiView oscilloscope analysis software, you can capture waveforms on your scope, save them to a file, and open the data record in Agilent's InfiniiView application. View, analyze, share, and document scope measurements anywhere your PC goes.



Printed in USA, May 30, 2013
5991-1663EN

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