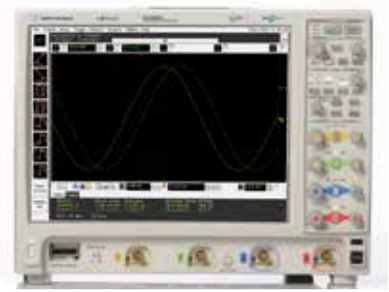
Competitive Comparison: Agilent 9000 H-Series vs. Danaher Tektronix 5000 Series

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**

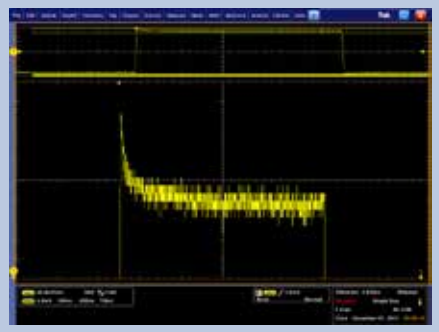
  Get optional digital channels, more than 20 applications, and ultrasensitive current probes for a complete oscilloscope solution.

	Agilent 9000 H-Series		Danaher Tektronix 5000	
Bandwidth	250 MHz, 500 MHz, 1 GHz, 2 GHz	√	350 MHz, 500 MHz, 1 GHz, 2 GHz	√
Bits of resolution	Up to 12 bits	√	8 bits	X
Max sample rate	Up to 10 GSa/s	√	5 GSa/s	√
Noise @ 100 mV/div @ 1 GHz	1.1 mV	√	3.0 mV	X
Std. memory depth (4 ch)	50 M	√	12.5 M	X
Max memory depth (4 ch)	Up to 500 M	√	Up to 125 M	X
Display size	38.8 cm (15")	√	26.4 cm (10.4")	X
Update rate (1 kPts)	1100 wfms/sec	√	35 wfms/sec (DPX special mode with limitations)	X
DPX mode	No	X	Yes	√
SSD	Available as option	√	Available as option	√
Standard probes	500 MHz passive	X	1 GHz passive	√
Pushable front panel knobs, vernier scaling	Yes	√	No	X

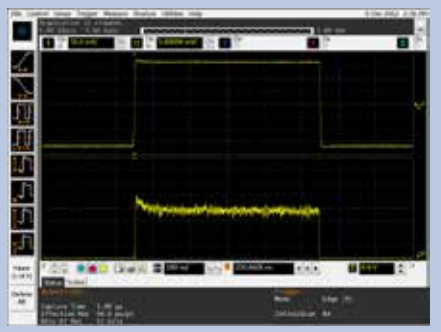
Anticipate ___Accelerate ___Achieve

Agilent Technologies

Example of Agilent 9000 H-Series and Tektronix 5000 Series oscilloscopes zooming in on the top of a 350 mV square wave.



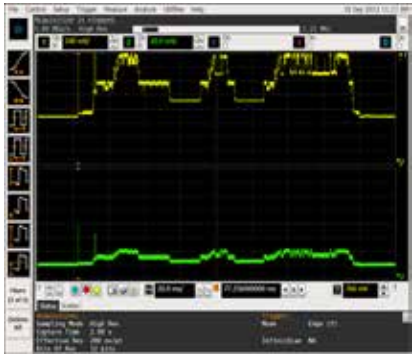
Tektronix 8-bit 5000 Series



Agilent 12-bit 9000 H-Series

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.



Channel 1 High-Sensitivity "Zoomed-In" View (6.7 mA/div)

Channel 2 "Zoomed-Out" View (40 mA/div)

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.

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.

Three-Year Warranty

www.agilent.com/find/ThreeYearWarranty

www.agilent.com/find/9000H

Product specifications and descriptions in this document subject to change without notice.

Printed in USA, May 30, 2013
5991-1665EN

Agilent Technologies