

## WavePro HD

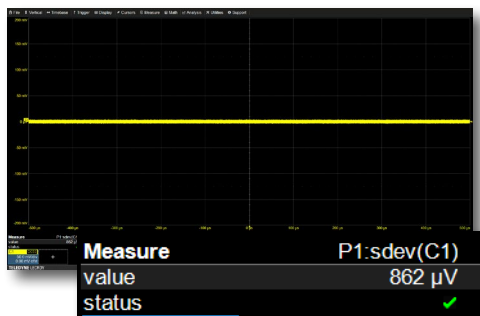
8 GHz, 20 GS/s, 5 Gpts.  
12 bits all the time.

Capture Every Detail.

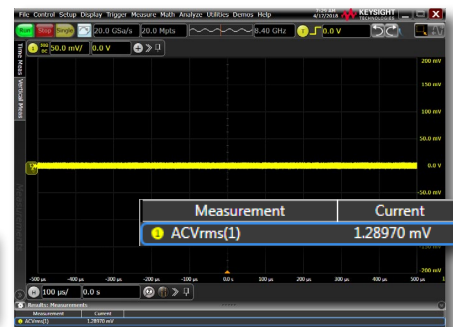


WavePro HD offers the industry's lowest noise, for the highest signal fidelity and most accurate measurements.

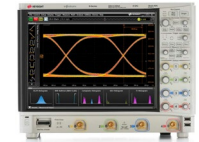
Baseline Noise	WavePro 804HD	DSO S-804A
10 mV/div	✓ 315 $\mu$ V	X 390 $\mu$ V
20 mV/div	✓ 420 $\mu$ V	X 620 $\mu$ V
50 mV/div	✓ 983 $\mu$ V	X 1400 $\mu$ V
100 mV/div	✓ 1.95 mV	X 3.1 mV
1000 mV/div	✓ 13.81 mV	X 24.1 mV



Baseline noise measured on a 8 GHz, 20 GS/s, 12 bit WavePro HD. HD4096 technology enables exceptionally low noise.



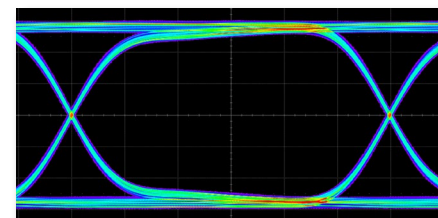
Baseline noise measured on a 8 GHz, 20 GS/s, 10 bit Keysight S Series



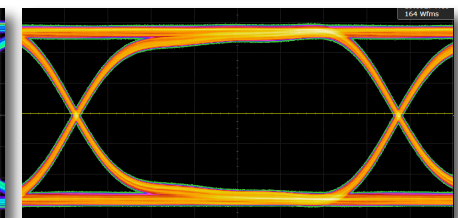
	WavePro HD	Keysight S Series
Maximum Bandwidth	8 GHz	8 GHz
Resolution	12 bits	10 bits
Maximum Sample Rate	20 GS/s	20 GS/s
Maximum Acquisition Memory	5 Gpts	800 Mpts
Display Size	15.6"	15"
DC Gain Accuracy	$\pm(0.5\%)$ of full scale	$\pm(1\%)$ of full scale
Timebase jitter	60 fs RMS	100 fs RMS

### Clean eye, accurate jitter measurements

The WavePro HD has excellent timebase jitter and exceptionally low baseline noise resulting in clean eye diagrams and highly precise serial data measurements.



WavePro 804HD  
Eye diagram: 2.5 Gbps PRBS signal  
Tj: 13.76 ps, Rj: 592 fs, Dj: 5.43 ps



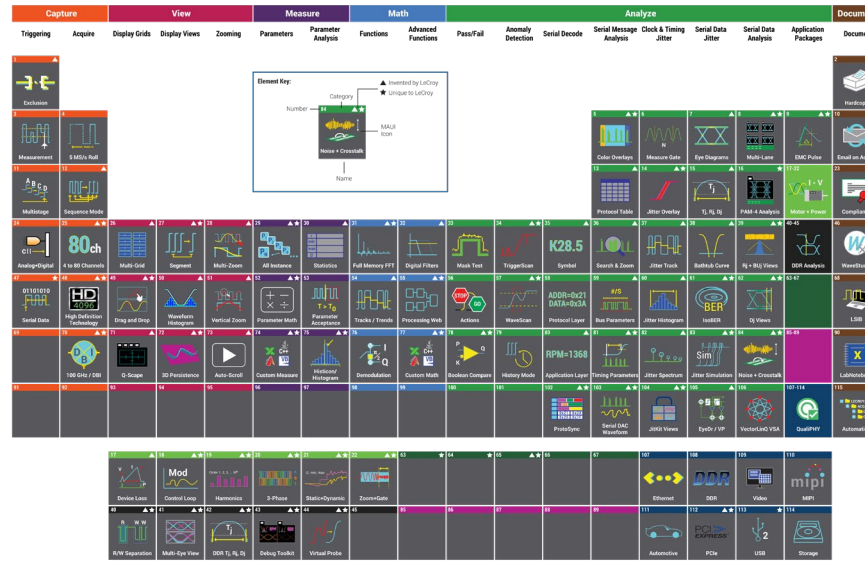
Keysight DSO S-804A  
Eye diagram: 2.5 Gbps PRBS signal  
Tj: 18.69 ps, Rj: 720 fs, Dj: 8.55 ps

## Powerful, Deep Toolbox

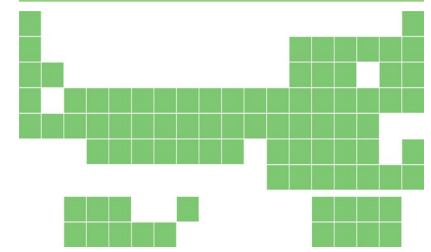
WavePro HD has the greatest breadth and depth of tools of any oscilloscope in its class, ensuring quick resolution of the most demanding debug tasks. Competitors offer much less capability.

Use the comparisons on the far right to compare tool coverage between the oscilloscopes.

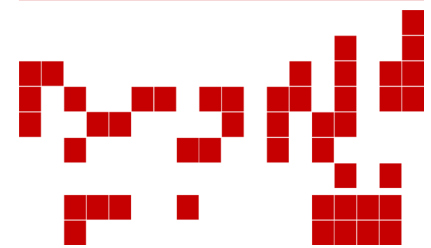
Learn more about our powerful, deep toolbox at [teledynelecroy.com/tools](http://teledynelecroy.com/tools).



WavePro HD



Keysight S Series



## HD4096 Technology - 16x Closer to Perfect



- 12-bit ADCs
- High SNR input amplifiers
- Low-noise system architecture

HD4096 technology provides superior and uncompromised measurement performance, with 12-bit resolution all the time.

Other high-resolution oscilloscopes make tradeoffs between resolution, sample rate and bandwidth.

[teledynelecroy.com/hd4096](http://teledynelecroy.com/hd4096)

