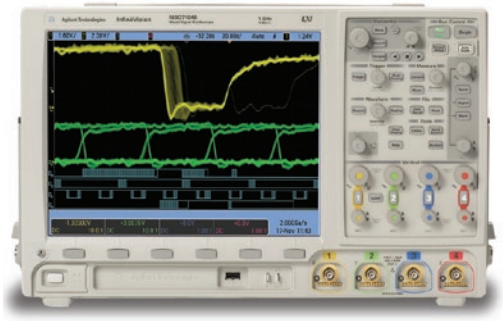
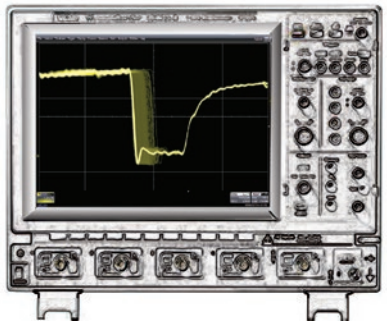
Competitive Comparison:

Agilent InfiniiVision 7000B Series vs. LeCroy WaveSurfer Oscilloscopes



VS.



Agilent's new InfiniiVision 7000B Series oscilloscopes are engineered for the best signal visibility. The InfiniiVision 7000B offers: the industry's largest display (12.1"), fastest uncompromised update rate (100,000 waveforms per second), the only integrated and upgradable Mixed Signal Oscilloscope option – all in a small, portable form factor. With best-in-class application support, the InfiniiVision 7000B will speed your time to market.

InfiniiVision scopes incorporate acquisition memory, waveform processing, and display memory in an advanced 0.13 µASIC.

This patented 3rd generation technology, known as MegaZoom III, delivers up to 100,000 waveforms (acquisitions) per second with responsive deep memory always available.

It also integrates in the digital channels to eliminate compromises like significant analog to digital skew that are inherent in a separate box design like LeCroy's WaveSurfer MSO.

	Agilent DSO/MSO7000B		LeCroy WaveSurfer MXs-A	
Bandwidth	100 MHz, 350 MHz, 500 MHz, 1 GHz	√	200 MHz, 400 MHz, 600 MHz, 1 GHz	x
Memory depth	Up to 8 M	x	Up to 10 M	√
Sample rate	Up to 4 GSa/s	x	Up to 5 GSa/s	√
Update rate	100,000 wfms/sec	√	40 wfms/sec	x
Display	12.1" 1024 x 768	√	10.4" 800 x 600	x
Boot time	19 seconds	√	113 seconds	x
Vertical noise Vpp	20 mV at 100 mV/div	√	50 mV at 100 mV/div	x
Integrated MSO	Yes	√	No (separate box)	x
Upgradable MSO	Yes	√	Yes (separate box)	√
Hardware accelerated serial decode	Yes	√	No	x
Analog-to-digital skew	<1 nS	√	36 nS	x

Anticipate ___Accelerate ___Achieve

Agilent Technologies

Fastest uncompromised update rate

- 100,000 waveforms/sec shows jitter, infrequent events and subtle signal detail that the LeCroy WaveSurfer misses

  2,500 times faster than LeCroy WaveSurfer

- 12.1" 1024x768 XGA resolution display provides excellent viewing area for analog, digital and serial information

  Nearly 40% larger than LeCroy WaveSurfer's 10.4" 800 x 600 SVGA resolution display

Unsurpassed signal fidelity in this class of instrument

- Lowest vertical noise at all scale settings

  60% lower than WaveSurfer at 100 mV/div

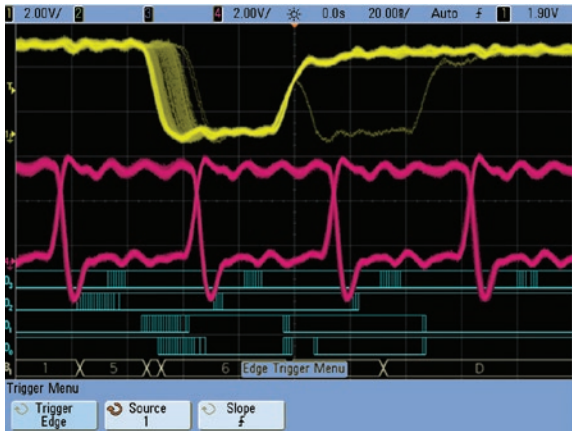
- Best signal representation

  7000B has no signal distortion due to oscilloscope signal path and interleaving of ADC

Broadest range of application support in its class

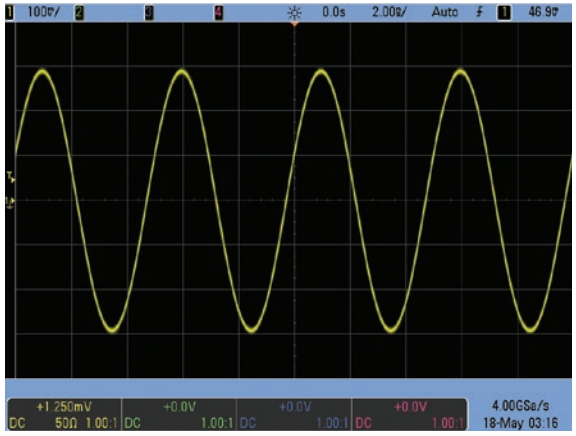
- I²C, SPI, RS-232/UART, CAN, LIN, FlexRay, I²S, mask testing, segmented memory, Xilinx FPGA dynamic probe, Altera FPGA dynamic probe, MIL-STD-1553, vector signal analysis, offline analysis, power analysis

- Hardware accelerated decode provides responsive decode of serial buses without slowing down the oscilloscope and also increases probability of capturing infrequent communication errors

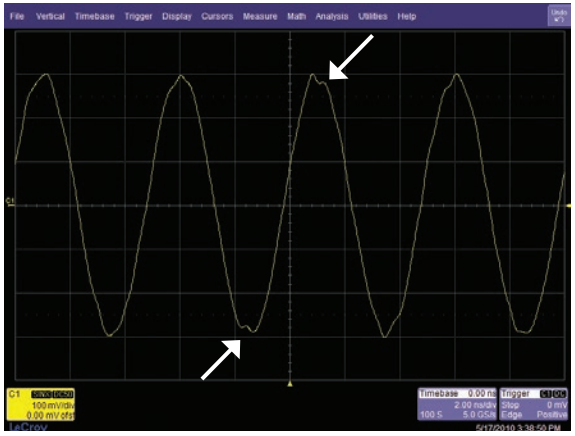


Agilent InfiniiVision 7000B clearly shows signal jitter and metastable state after just a couple seconds.

LeCroy WaveSurfer's slow update rate misses the signal jitter and metastable state.



Agilent InfiniiVision 7000B shows excellent signal fidelity with single chip ADC technology.



LeCroy WaveSurfer shows distorted signal due to poor interleaving of ADCs.

	Agilent DSO/MSO7000B	LeCroy WaveSurfer MXS-A
Hardware accelerated serial decode	√	x
I²C, SPI, RS232/UART, CAN/LIN, FlexRay, I²S, MIL-STD-1553	√	√
Altera/Xilinx FPGA dynamic probe	√	x
Vector signal analysis	√	x

Three-Year Warranty

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Agilent's combination of product reliability and three-year warranty coverage is another way we help you achieve your business goals: increased confidence in uptime, reduced cost of ownership and greater convenience.

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