

Keysight InfiniiVision X-Series Oscilloscope Family



Key specifications	InfiniiVision 1000 X-Series	InfiniiVision 2000 X-Series	InfiniiVision 3000G X-Series	InfiniiVision HD3 Series	InfiniiVision 4000G X-Series	InfiniiVision 6000 X-Series
Bandwidth	50-200 MHz	70-200 MHz	100 MHz - 1.0 GHz	200 MHz - 1 GHz	200 MHz - 1.5 GHz	1 - 6 GHz
ADC bits (native)	8	8	8	14	8	8
Max sampling rate	2 GSa/s	2 GSa/s	5 GSa/s	3.2 GSa/s	5 GSa/s	20 GSa/s
Channels						
– Analog	2 or 4	2 or 4	2 or 4	2 or 4	2 or 4	2 or 4
– Digital	–	8	16	16	16	16
Memory	2 Mpts	2 Mpts	4 Mpts	100 Mpts	4 Mpts	4 Mpts
– Segmented memory	Standard on DSO models	Standard	Standard	Standard	Standard	Standard
Waveform update rate	50,000	200,000	1,000,000	1,300,000	1,000,000	500,000
Noise floor* (rms)	143 μ V	190 μ V	272 μ V	48 μ V	348 μ V	198 μ V
Minimum input sensitivity	500 μ V/div, 1 M Ω	1 mV/div, 1 M Ω	1 mV/div, 1 M Ω and 50 Ω	100 μ V/div 1 M Ω and 50 Ω	1 mV/div, 1 M Ω and 50 Ω	1 mV/div, 1 M Ω and 50 Ω
Display size	7 inch	8.5 inch	8.5 inch	10-inch	12.1 inch	12.1 inch
Capacitive touch screen	Not available	Not available	Standard	Standard	Standard	Standard, Multi-touch
Hardware zone trigger	Not available	Not available	Standard	Standard	Standard	Standard
Advanced math	Not available	Not available	Standard	Standard	Standard	Standard
AutoProbe interface	Not available	Not available	Standard, 4 active probes	Standard, 4 active probes	Standard, 4 active probes	Standard, 4 active probes
Trigger type	Analog	Analog	Analog	Digital	Analog	Analog

*Measured / typical performance at full scope bandwidth, 2mV/div, 50 Ω setting except for 1000X/2000X (1 M Ω).

www.keysight.com/find/infiniivision

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PRODUCT FACT SHEET

Serial protocol trigger and decode	1000-X	2000-X	3000G	HD3	4000G	6000X
Aerospace and defense (MIL-STD 1553, ARINC 429)	–	–	X	X	X	X
Automotive						
– CAN	X	X	X	X	X	X
– LIN	X	X	X	X	X	X
– CAN-dbc	–	–	X	X	X	X
– CAN-FD	–	–	X	X	X	X
– CXPI	–	–	X	–	X	X
– SENT	–	–	X	X	X	X
– PSi5	–	–	X	–	X	X
– SENT	–	–	X	X	X	X
– FlexRay	–	–	X	–	X	X
Embedded						
– RS232/UART	X	X	X	X	X	X
– RS422	–	X	X	X	X	X
– I2C, SPI	X	X	X	X	X	X
– I2S	–	–	X	–	X	X
USB						
– USB 2.0 (low-, full-speed)	–	–	X	–	X	X
– USB 2.0 (high-speed)	–	–	–	–	X	X
– USB PD	–	–	–	–	X	X
Measurement applications						
Jitter and real time eye analysis	–	–	–	–	–	X
Integrated 3-digit DVM/5 digit counter	X	X	X	X	X	X
Integrated 8-digit precision counter	X	–	X	X	–	X
Integrated 10-digit precision counter	–	–	–	–	–	X
Mask limit testing	X	X	X	X	X	X
Power analysis application	–	–	X	–	X	X
USB 2.0 signal quality analysis	–	–	–	–	X	X
Near field communication testing	–	–	X	–	X	–
20 MHz WaveGen	X	X	X	X	X	X
– Dual channel	–	–	–	–	X	X
100 MHz Wavegen (option)	–	–	–	X	–	–
Frequency Response (Bode plot)	X	–	X	X	X	X
Vector Signal Analysis (VSA)	X	X	X	X	X	–
Productivity tools						
D9010BSEO Infiniium Offline oscilloscope analysis software	X	X	X	X	X	X
BV0004B BenchVue	X	X	X	X	X	X

Accessories and connectivity options	1000X	2000X	3000G	HD3	4000G	6000X
Standard passive probe	N2142A and N2040A	Varies	N2843A (500 MHz)	N2843A (500 MHz)	N2894A (700 MHz)	N2894A (700 MHz)
LAN/VGA connection module	Standard (LAN only)	Option	Option	Standard (LAN only)	Standard	Standard
GPIO connection module	–	Option	Option	–	Option	Option
Front panel cover	–	Option	Option	Option	Standard	Standard
Rack mount kit	Option	Option	Option	Option	Option	Option
Soft carrying case	Option	Option	Option	Option	Option	Option
Enhanced Security	–	secure erase only	Option	Option	Option	Option

For more information on our probing offerings, please visit the Keysight [Probes Resource Center](#)

See What You've Been Missing

The HD3 Series brings Keysight's industry-leading capabilities from high-performance oscilloscopes to the high-volume level, making precision portable from 200 MHz to 1 GHz. Leveraging custom hardware technology from the UXR Series, the HD3 boasts impressive resolution with four times the vertical accuracy with a 14-bit ADC and half the noise floor. Paired with our fast waveform update rate and twenty-five times more memory, the HD3 Series can capture small signals with high vertical resolution.

Learn more about the portable precision of the HD3 at www.keysight.com/find/HD3

