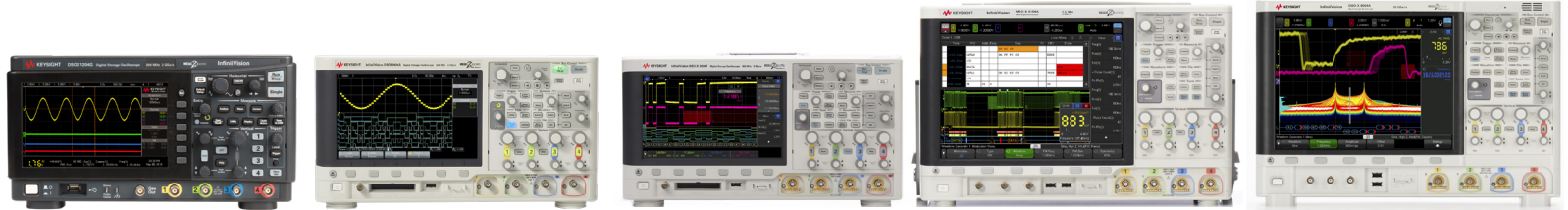# Keysight InfiniiVision X-Series Oscilloscope Family

Key specifications	InfiniiVision 1000 X-Series	InfiniiVision 2000 X-Series	InfiniiVision 3000T X-Series	InfiniiVision 4000 X-Series	InfiniiVision 6000 X-Series
Bandwidth	50/70/100/200 MHz	70/100/200 MHz	100/200/350/500 MHz, 1.0 GHz	200/350/500 MHz, 1.0/1.5 GHz	1/2.5/4/6 GHz
Max sampling rate	2 GSa/s	2 GSa/s	5 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
– Digital	–	8	16	16	16
Memory	Up to 1 Mpts	1 Mpts standard	4 Mpts standard	4 Mpts standard	4 Mpts standard
– Segmented memory	Standard on DSO models	Standard	Standard	Standard	Standard
Waveform update rate	50,000	200,000	1,000,000	1,000,000	500,000
Display size	7 inch	8.5 inch	8.5 inch	12.1 inch	12.1 inch
Capacitive touch screen	Not available	Not available	Standard	Standard	Standard, Multi-touch
Hardware zone trigger	Not available	Not available	Standard	Standard	Standard
Advanced math	Not available	Not available	Standard	Standard	Standard
AutoProbe interface	Not available	Not available	Standard, 2 active probes	Standard, 4 active probes	Standard, 4 active probes
Application bundle option	Not available	DSOX2APPBNDL	DSOXT3APPBNDL	DSOX4APPBNDL	DSOX6APPBNDL

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Keysight InfiniiVision X-Series Oscilloscope Family

Serial protocol trigger and decode	1000-X	2000-X	3000T-X	4000-X	6000-X
Aerospace and defense (MIL-STD 1553/ARINC 429)	–	–	X	X	X
Audio (I²S)	–	–	X	X	X
Automotive	–	X	X	X	X
– CAN	X	X	X	X	X
– LIN	X	X	X	X	X
– CAN-dbc	–	–	X	X	X
– CAN-FD	–	–	X	X	X
– CXPI	–	–	X	X	–
Computer (RS232/UART)	X	X	X	X	X
Embedded (I²C, SPI)	X	X	X	X	X
FlexRay	–	–	X	X	X
Single edge nibble transmission (SENT)	–	–	X	X	X
USB 2.0	–	–	–	X	X
Low/Full speed	–	–	–	X	X
Hi-speed	–	–	–	X	X
Measurement applications					
Jitter and real time eye analysis	–	–	–	–	X
Integrated 3-digit DVM/5 digit counter	X	X	X	X	X
Integrated 8-digit precision counter	X	–	X	–	–
Integrated 10-digit precision counter	–	–	–	–	X
Mask limit testing	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	–
WaveGen 20 MHz function generator	X	X	X	X	X
– AWG	–	–	X	X	X
– Dual channel	–	–	–	X	X
Frequency Response (Bode plot)	X	–	X	X	X
Productivity tools					
Education and training kit	X	X	X	X	X
N8900A Infiniium Offline oscilloscope analysis software	X	X	X	X	X
BenchVue	X	X	X	X	X
Software application bundle	–	X	X	X	X

Standard and recommended optional probes	1000-X	2000-X	3000T-X	4000-X	6000-X
Standard passive probe	N2142A and N2040A	Varies	N2843A (500 MHz)	N2894A (700 MHz)	N2894A (700 MHz)
8 digital channel MSO cable	–	MSO models	–	–	–
16 digital channel MSO cable	–	–	MSO models	MSO models	MSO models
Passive probe 35 MHz, 1:1, 1 MW	Recommended	Recommended	Recommended	Recommended	Recommended
Passive probe 350 MHz, 10:1/1:1 switchable attenuation	Recommended	Recommended	Recommended	Recommended	Recommended
Passive probe 250 MHz 100:1 attenuation (4 kV)	Recommended	Recommended	Recommended	Recommended	Recommended
Active single-ended probe 1 GHz 1 pF 1 MΩ with AutoProbe	–	–	Recommended	Recommended	Recommended
Active single-ended probe 1.5 GHz extreme temperature	–	–	Recommended	Recommended	Recommended
InfiniiMode differential probe 1.5 GHz 700 fF 200 kΩ with AutoProbe	–	–	Recommended	Recommended	Recommended
Differential active probe 100 MHz, ± 1.4 kV with AutoProbe	–	–	Recommended	Recommended	Recommended
Differential active probe 250 MHz, ± 700 V	–	–	Recommended	Recommended	Recommended
200 MHz 10:1 Differential Probe with AutoProbe	–	–	Recommended	Recommended	Recommended
800 MHz 10:1 Differential Probe with AutoProbe	–	–	Recommended	Recommended	Recommended
AC/DC Current probe 100 kHz 100 A	–	–	Recommended	Recommended	Recommended
AC/DC Current probe 50 MHz 15 A with AutoProbe	–	–	Recommended	Recommended	Recommended
AC/DC current probe 100 MHz 15 A with AutoProbe	–	–	Recommended	Recommended	Recommended
2-channel high-sensitivity current probe 50 µA to 5 A	–	–	Recommended	Recommended	Recommended
1-channel high-sensitivity current probe 50 µA to 5 A	–	–	Recommended	Recommended	Recommended
Low noise 2 GHz power rail probe	–	–	Compatible	Compatible	Recommended
Accessories and connectivity options					
LAN/VGA connection module	Standard (LAN only)	Standard	Standard	Standard	Standard
GPIB connection module	–	Option	Option	Option	Option
Front panel cover	–	Option	Option	Standard	Standard
Rack mount kit	Option	Option	Option	Option	Option
Soft carrying case	Option	Option	Option	Option	Option
Hard copy manual	Option	Option	Option	Option	Option

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