Keysight Infiniium V-Series Oscilloscopes
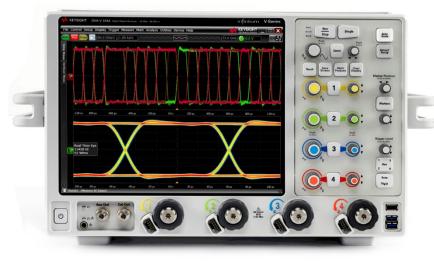
Industry-Leading Accuracy that Ensures Greater Clarity in Analysis and Debug of High-Speed Designs

The industry's most comprehensive application- specific software

The intuitive Infiniium oscilloscope user interface, extensive protocol decodes, and comprehensive portfolio of compliance software make it easy to debug and validate even the most sophisticated designs.

Full 30 GHz Probing System

An oscilloscope is only as good as the probing system that provides you access to the device you are measuring. Keysight InfiniiMax III probes provide you with the low noise and high bandwidth required for your probing needs.

For more information on InfiniiMax III probes visit:
www.keysight.com/find/InfiniiMax

Advanced hardware to achieve clarity faster

– **True analog bandwidth to 33 GHz:**
   Hardware acquisition performance to full bandwidth
   No DSP boosting or frequency interleaving
   Models available from 8 GHz to 33 GHz of bandwidth
– **The industry's lowest noise floor in its class:**
   Less noise from your instrument guarantees more accurate results
   Maximize eye height measurements and guarantee margins
– **Extremely low intrinsic jitter:**
   See your true jitter and not the oscilloscopes, making RJ/DJ separation and jitter measurements more accurate
   Make accurate cross correlated phase noise measurements

For more information visit: www.keysight.com/find/V-Series

Key Specifications

Product	Description
Bandwidth	33, 25, 20, 16, 13 and 8 GHz
Channels	4 channels – 3.5 mm AutoProbe II
Sample rate	80 GSa/s 2 ch, 40 GSa/s 4 ch
Memory depth	100 Mpts/channel standard Up to 2 Gpts/channel available
Edge trigger	> 20 GHz
Mixed signal	20 GSa/s on 8 ch, 10 GSa/s on 16 ch
Serial trigger	12.5 Gb/s, 160-bit sequence
PC OS	Windows 10

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TECHNOLOGIES

Infiniium V-Series Oscilloscope Models

Oscilloscope models (All V-Series models include 4 analog channels)			Analog bandwidth		Sample rate	
DSO models[1]	DSA models[2]	MSO models[3] (16 digital channels)	2 channel	4 channel	2 channel	4 channel
DSOV334A	DSAV334A	MSOV334A	33 GHz	16 GHz	80 GSa/s	40 GSa/s
DSOV254A	DSAV254A	MSOV254A	25 GHz	16 GHz	80 GSa/s	40 GSa/s
DSOV204A	DSAV204A	MSOV204A	20 GHz	16 GHz	80 GSa/s	40 GSa/s
DSOV164A	DSAV164A	MSOV164A	16 GHz	16 GHz	80 GSa/s	40 GSa/s
DSOV134A[4]	DSAV134A[4]	MSOV134A[4]	13 GHz	13 GHz	80 GSa/s	40 GSa/s
DSOV084A[4]	DSAV084A[4]	MSOV084A[4]	8 GHz	8 GHz	80 GSa/s	40 GSa/s

All models come with front cover, power cord, keyboard, mouse, calibration cable, ESD wrist strap and (5) coax adapters
[1] Digital Storage Oscilloscope (DSO) models come standard with 100 Mpts/ch of memory
[2] Digital Signal Analyzer (DSA) models come standard with 200 Mpts/ch of memory and jitter analysis software
[3] Mixed Signal Oscilloscope (MSO) models come standard with 100 Mpts/ch of memory, 16 digital channels and DDR protocol SW
[4] V-Series 8 and 13 GHz models come standard with two N5442A precision BNC adapters

Advanced Analysis Software

Model	Description
D9020ASIA	Advanced Signal Integrity (EQ, InfiiniSimAdv, Crosstalk)
D9020JITA	Jitter, Vertical Noise and Phase Noise Analysis
D9020SCNA	InfiniiScan Event Identification
D9010DMBA	Basic De-embedding (Precision Probe and InfiiniSim Basic)
D9010EXMA	External Mixer Assistant
D9010PAMA	Pulse Amplitude Modulation PAM-N Analysis
D9010POWA	Power Integrity Analysis
D9010UDAA	User Defined Application

Protocol Decode and Triggering Software

Model	Description
D9010AUTP	Automotive Protocols (CAN, LIN, CAN-FD, FlexRay ...)
D9010EKRP	10G/100GBASE-KR 64b/66b and Link Training
D9010EMBP	Embedded Protocols (USB2.0, eUSB2, 10/100 ETH, PCIe 2/1 ...)
D9010LSSP	Low Speed Protocols (I2C, SPI, RS232, I2S, JTAG ...)
D9010MCDP	MIPI CSI and DSI (C-PHY and D-PHY)
D9010MILP	Military (ARINC 429, MIL-STD 1553, SpaceWire)
D9010MPLP	Low Speed MIPI (RFFE, I3C, SPMI)
D9010MPMP	MIPI M-PHY (DigRF, LLI, CSI-3, UniPro, UFS, SSIC)
D9010PCIP	Advanced PCIe (PCIe 4/3/2/1, SATA/SAS)
D9010USBP	USB 3.x (USB 3.2 - 5 and 10 Gbps)
D9010BDLP	Protocol Bundle (Low Speed, Auto, MIPI, Military)

Protocol Compliance Applications

Model	Description
D9010BJAC	40GBASE-CR4 and 100GBASE-CR10 Tx
D9010EAPC	Ethernet 10GBASE-KR Tx
D9010EBSC	IEEE802.3bs/cd
D9010EBZC	10G, MGBase-T, Nbase-T Ethernet Tx
D9010ETHC	Ethernet Tx (Ethernet, EEE)
D9010SFPC	SFP+ Tx
D9010XAUC	XAUI Tx
D9040PCIC	PCI Express Tx
D9010CPHC	MIPI C-PHY Tx
D9020DPHC	MIPI D-PHY Tx
D9040MPHC	MIPI M-PHY Tx
D9010USBC	USB 2.0 Tx
D9020USBC	USB 3.2 Tx
D9021HDMC	HDMI Tx
D9040DPPC	DisplayPort Tx
D9040EDPV	eDP Tx Validation
D9020DDRC	DDR2 and LPDDR2 Tx
D9030DDRC	DDR3 and LPDDR3 Tx
D9040DDRC	DDR4 and LPDDR4 Tx
D9050DDRC	DDR5 Tx
D9050LDDC	LPDDR5 Tx

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Accelerate Technology Adoption. Lower costs.

Keysight Services helps you improve productivity and product quality with our comprehensive service offerings of one-stop calibration, repair, asset management, technology refresh, consulting, training, and more.

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