Product Fact Sheet

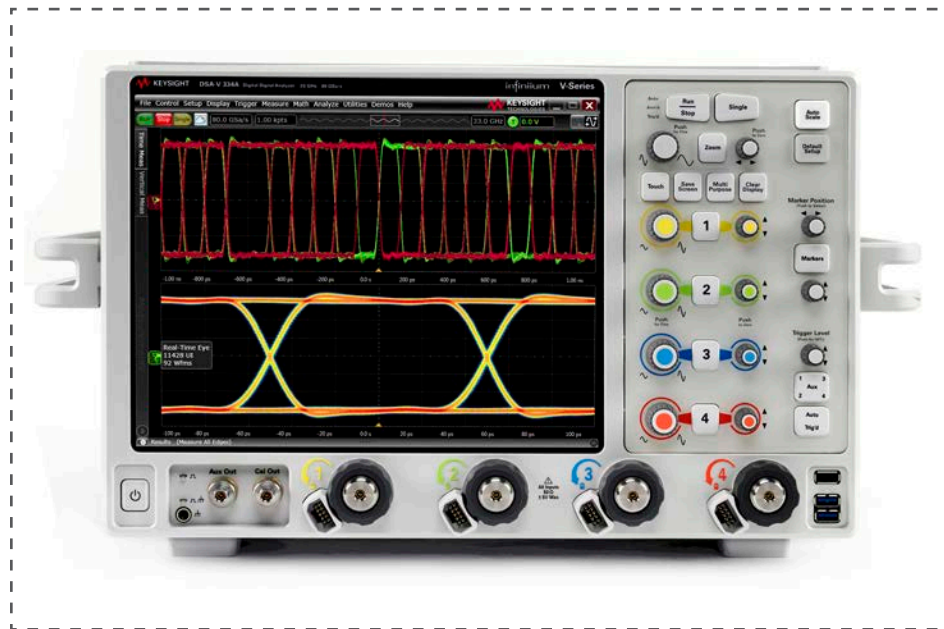# Keysight Infiniium V-Series Oscilloscopes

Industry-Leading Accuracy that Ensures Greater Clarity in Analysis and Debug of High-Speed Designs

Full 30 GHz probing system

An oscilloscope is only as good as the system that gets you to the device you are measuring. The InfiniiMax III probing system provides the bandwidth that you need for your probing needs.

The industry's most comprehensive application-specific software

The new user interface and comprehensive compliance software make it easy to debug and validate the device.

Key specifications

Product	Description
Bandwidth	33, 25, 20, 16, 13 and 8 GHz
Channels	4 channels
Sample rate	80 GSa/s 2 ch, 40 GSa/s 4 ch
Memory depth	50 Mpts standard Up to 2 Gpts 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

The industry's highest measurement accuracy

- **True analog bandwidth to 33 GHz:**
  Hardware performance to full bandwidth, no DSP boosting or frequency interleaving.
- **The industry's lowest noise floor:**
  Maximize eye height measurements by ensuring that you get the least amount of noise from your instrument.
- **The industry's lowest intrinsic jitter:**
  See your true jitter and not the oscilloscopes, making RJ/DJ separation more accurate.

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Order the Digital Signal Analyzer (DSA) to get 100 Mpts of memory, EZJIT, EZJIT Plus, EZJIT Complete, and Serial Data Analysis software standard.
Order the Mixed Signal Oscilloscope (MSO) to get 16 digital channels and DDR protocol standard.

Oscilloscope models

Model	Bandwidth	Sample rate [1,2]	Memory depth [1,2]	Scope channels
MSOV334A	33 GHz	80 GSa/s	50 Mpts	4 analog + 16 digital
DSAV334A	33 GHz	80 GSa/s	100 Mpts	4 analog
DSOV334A	33 GHz	80 GSa/s	50 Mpts	4 analog
MSOV254A	25 GHz	80 GSa/s	50 Mpts	4 analog + 16 digital
DSAV254A	25 GHz	80 GSa/s	100 Mpts	4 analog
DSOV254A	25 GHz	80 GSa/s	50 Mpts	4 analog
MSOV204A	20 GHz	80 GSa/s	50 Mpts	4 analog + 16 digital
DSAV204A	20 GHz	80 GSa/s	100 Mpts	4 analog
DSOV204A	20 GHz	80 GSa/s	50 Mpts	4 analog
MSOV164A	16 GHz	80 GSa/s	50 Mpts	4 analog + 16 digital
DSAV164A	16 GHz	80 GSa/s	100 Mpts	4 analog
DSOV164A	16 GHz	80 GSa/s	50 Mpts	4 analog
MSOV134A	13 GHz	80 GSa/s	50 Mpts	4 analog + 16 digital
DSAV134A	13 GHz	80 GSa/s	100 Mpts	4 analog
DSOV134A	13 GHz	80 GSa/s	50 Mpts	4 analog
MSOV084A	8 GHz	80 GSa/s	50 Mpts	4 analog + 16 digital
DSAV084A	8 GHz	80 GSa/s	100 Mpts	4 analog
DSOV084A	8 GHz	80 GSa/s	50 Mpts	4 analog

1. In 4 ch mode, sample rate is 40 GSa/s on all four channels.
2. Up to 2 Gpts available on all four channels.

For more information on this and other Keysight oscilloscope please visit:
www.keysight.com/find/V-Series

Application software

Model	Description
N8823A-1FP	EZJIT Complete jitter analysis
N5400A-1FP	EZJIT Plus jitter analysis
E2681A-1FP	EZJIT jitter analysis
E2688A-1FP	High-speed SDA and clock recovery
N5414B-1FP	InfiniiScan software triggering
N5465A-1FP	InfiniiSim advanced signal de-embedding
N5465A-3FP	InfiniiSim basic signal de-embedding
N2809A-1FP	PrecisionProbe AC calibration
N5461A-1FP	Serial data equalization
N5430A-1FP	User-defined function
N5393D-1FP	PCIe Gen 3 compliance
N5399C-1FP	HDMI 2.0 compliance
N6462A-1FP	DDR4/LPDDR4 compliance
N8829A-1FP	100 GBase-KR4 compliance

Options and accessories

Model	Description
DSOV000-100	100 Mpts/channel memory upgrade
DSOV000-200	200 Mpts/channel memory upgrade
DSOV000-500	500 Mpts/channel memory upgrade
DSOV000-01G	1 Gpts/channel memory upgrade
DSOV000-02G	2 Gpts/channel memory upgrade
DSOV000-801	1 TB removable Solid State Drive (SSD) with Windows 7
DSOV000-805	GPIB card-interface
DSOV000-808	Performance verification and deskew fixture
DSOV000-810	Hardware serial trigger upgrade
DSOV000-A6J	ANSI Z540-1 compliant calibration
DSOV000-AMG	ACLASS Accreditation ANSI-ASQ National Accreditation Board, USA (calibration + uncertainties + guardbanding)
N2117A	Stack mount kit option for stacking two frames
N5443A	Performance verification and deskew fixture

InfiniiMax probing options

Model	Description
N2803A	30 GHz InfiniiMax III probe amplifier
N2802A	25 GHz InfiniiMax III probe amplifier
N2801A	20 GHz InfiniiMax III probe amplifier
N2800A	16 GHz InfiniiMax III probe amplifier
N7000A	20 GHz InfiniiMax III+ probe amplifier
N7001A	16 GHz InfiniiMax III+ probe amplifier
N7002A	13 GHz InfiniiMax III+ probe amplifier
N7003A	8 GHz InfiniiMax III+ probe amplifier
N2848A	QuickTip probe head
N2836A	26 GHz solder-in probe head
N5439A	ZIF probe head
N5440A	450 Ω ZIF tip replacement (set of 5)
N5447A	250 Ω ZIF tip replacement (set of 5)
N5445A	Browser (hand held) probe head
N5444A	3.5 mm/2.92 mm/SMA probe
N7010A	30 GHz voltage termination adapter
N5449A	High impedance probe adapter

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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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