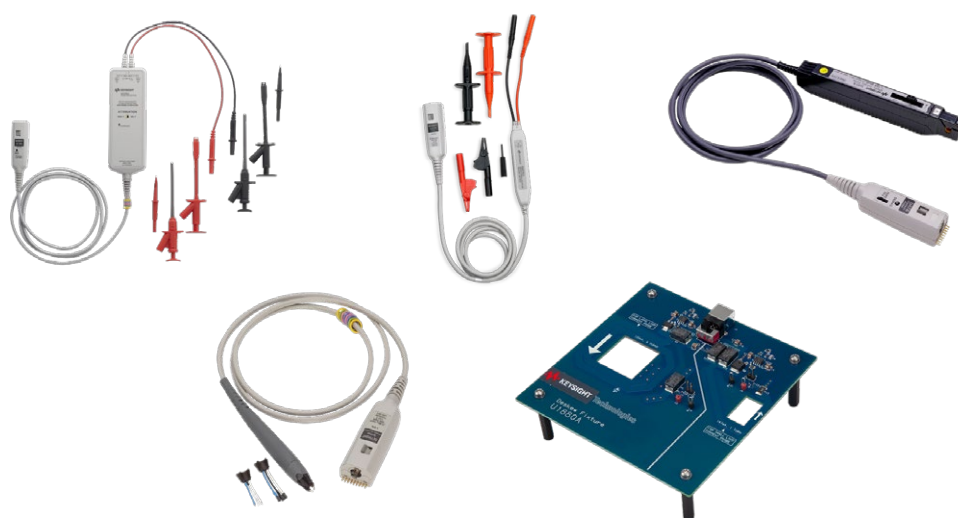
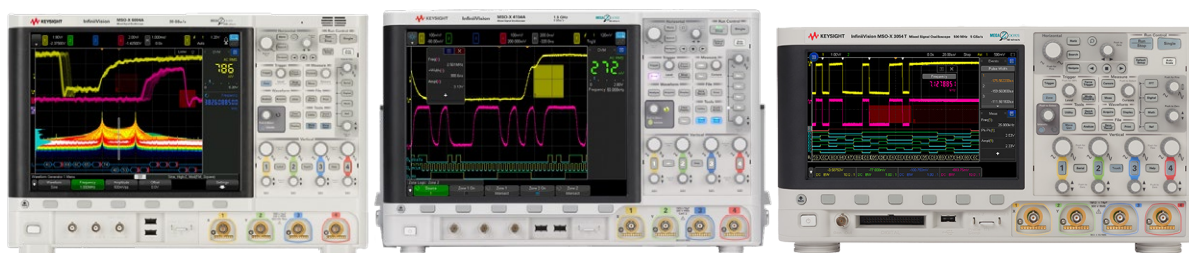


DATA SHEET

InfiniiVision Oscilloscope Application Bundles

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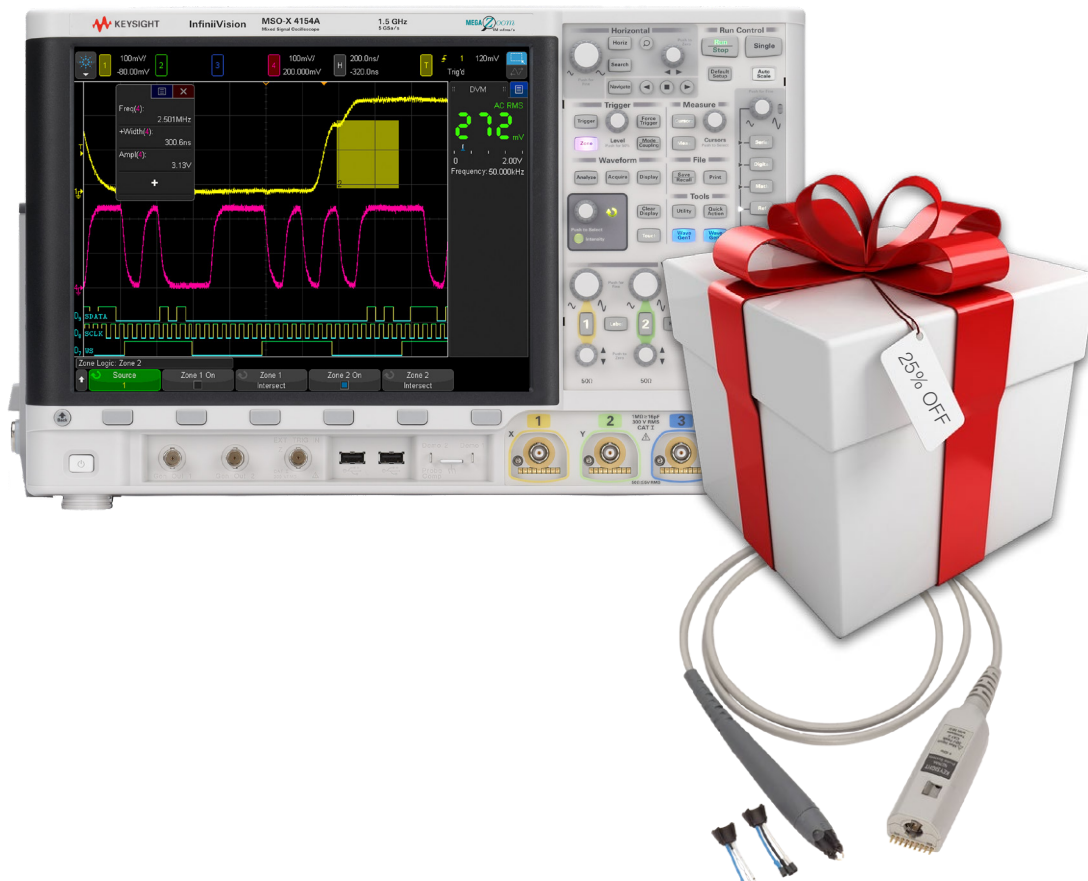
Application Bundles Overview

Deciding which probes, which hardware upgrades, and which software options to purchase along with your InfiniiVision X-Series oscilloscope for a specific measurement application can be a daunting task. Keysight has made it easy for you by pre-configuring multiple products under single bundled model numbers. Keysight now offers six different bundles of products optimized for power supply characterization and testing and high-speed signal integrity / jitter testing. Choose the one that best fits your measurement application and budget and save 25% off the list price relative to purchasing the same items individually.

- Power *Better* Bundle (DSOX3054PWR)
- Power *Best* Bundle (MSOX4154PWR)
- High-Speed / Jitter *Better* Bundle (DSOX6004JIT)
- High-Speed / Jitter *Best* Bundle (MSOX6004JIT)



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InfiniiVision Power Bundles

Testing power supplies for switching losses, output ripple, efficiency, and feedback amplifier stability requires high-voltage differential probes, current probes, deskew fixtures, and optional oscilloscope software. Keysight's InfiniiVision oscilloscope better and best power analysis application bundles provide you with all these critical measurement tools to test and characterize your switch mode power supply designs.

Power Better Bundle

The Power *Better* Bundle (DSOX3054PWR) is built around the 4-channel, 500-MHz bandwidth InfiniiVision 3000T X-Series digital storage oscilloscope (DSO) with the built-in function / arbitrary waveform generator and the power supply characterization and analysis software option.

The power analysis software package includes the broadest support for testing linear and switch mode power supplies (SMPS) including input AC power quality, current harmonics, switching losses, turn-on / off analysis, transient analysis, output ripple, efficiency, and frequency response testing including power supply rejection ratio (PSRR) and control loop response (gain and phase Bode plots).



Figure 3. Control loop response test using the DSOX3054PWR Power *Better* Bundle.

Included in the Power *Better* Bundle are the N2790A 100-MHz high-voltage (± 1500 V) differential active probe, the 1147B 50-MHz 15A current probe, and the U1880A voltage-to-current probe deskew fixture. Below is a summary of what's included in the Power *Better* Bundle:

Power <i>Better</i> Bundle: DSOX3054PWR	
DSOX3054T	4-channel, 500-MHz oscilloscope
D3000PWRB	Power analysis software option
DSOX3WAVEGEN	Function / arbitrary waveform generator
N2790A	100-MHz high-voltage differential active probe
1147B	50-MHz current probe
U1880A	Deskew fixture
DSOXLAN	LAN / VGA module

Power *Best* Bundle

The Power *Best* Bundle (MSOX4154PWR) is built around the 4+16 channel, 1.5-GHz bandwidth InfiniiVision 4000 X-Series mixed signal oscilloscope (MSO), which includes 16 additional logic / digital channels of acquisition, a 2-channel function / arbitrary waveform generator, and the ultimate bundle software option.

In addition to the extensive selection of power supply characterization measurements that are available in the power test software option of the better bundle, the ultimate bundle software option included in the best bundle also includes a broad array of serial protocol trigger and decoding capabilities including I²C, SPI, UART / RS232 / 484, I²S, USB 2.0, USB PD, user-definable NRZ, CAN, CAN FD, LIN, SENT, CXPI, and NFC.



Figure 4. Switching loss measurement using the MSOX4154PWR Power *Best Bundle*.

The Power *Best Bundle* also includes the N2790A 100-MHz high-voltage (± 1500 V) differential active probe, the N7026A 150-MHz high-sensitivity 30A current probe, and the U1880A voltage-to-current probe deskew fixture. Below is a summary of what's included in the Power *Best Bundle*:

Power <i>Best Bundle</i> : MSOX4154PWR	
MSOX4154A	4+16 channel, 1.5-GHz mixed signal oscilloscope
D4000BDLB	Ultimate bundle software option
DSOX4WAVEGEN2	2-channel function / arbitrary waveform generator
N2790A	100-MHz high-voltage differential active probe
N7026A	150-MHz high-sensitivity current probe
U1880A	Deskew fixture

InfiniiVision High-Speed / Jitter Bundles

Testing for timing margins and unwanted jitter in high-speed digital systems requires oscilloscopes with fast sample rates, active probes, and automated jitter analysis with software clock recovery. Keysight's InfiniiVision oscilloscope better and best high-speed jitter application bundles provide you with all these critical measurement tools to perform jitter analysis on your high-speed serial buses.

High-Speed / Jitter Better Bundle

The High-Speed Signal Integrity / Jitter *Better* Bundle (DSOX6004JIT) is built around the 4-channel, 1-GHz bandwidth InfiniiVision 6000 X-Series digital storage oscilloscope (DSO) that samples at rates up to 20 GSa/s and comes with a built-in 2-channel function / arbitrary waveform generator and the ultimate bundle software package.

The ultimate bundle software package includes all software options available in the InfiniiVision 6000 X-Series oscilloscopes, including high-speed jitter analysis. Jitter analysis on the InfiniiVision 6000 X-Series oscilloscope measures various types of jitter with multiple views and quantization of jitter to provide you with valuable insight into the source of unwanted timing errors.

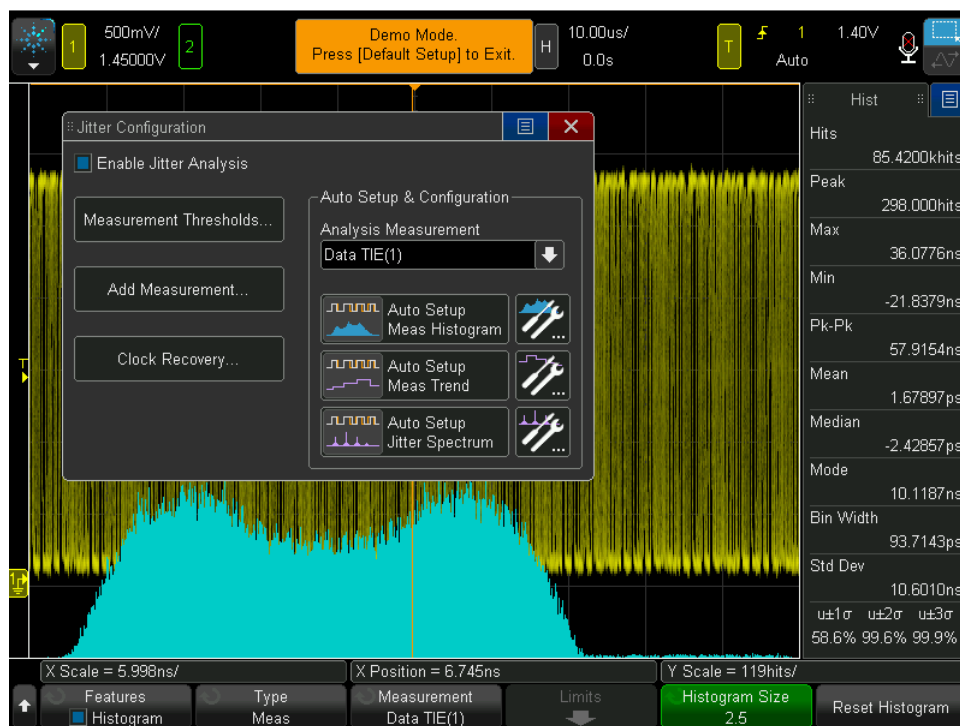


Figure 5. Jitter histogram using DSOX6004JIT High-Speed / Jitter *Better* Bundle.

Also included is a broad range of automotive and embedded serial bus trigger and decoding capabilities including USB 2.0 low-, full-, and hi-speed, as well as frequency response analysis (Bode plots) and automated pass / fail limit testing based on either measurement limits or waveform mask limits.

Included in the High-Speed / Jitter *Better* Bundle is the N2750A 1.5-GHz differential active probe for probing high-speed differential signals such as the USB 2.0 hi-speed bus. Below is a summary of what's included in the High-Speed / Jitter *Better* Bundle:

High-Speed / Jitter <i>Better</i> Bundle: DSOX6004JIT	
DSOX6004A	4-channel, 1-GHz oscilloscope
D6000BDLB	Ultimate bundle software option
DSOX6WAVEGEN2	2-channel function / arbitrary waveform generator
N2750A	1.5-GHz differential active probe

High-Speed / Jitter *Best* Bundle

The High-Speed Signal Integrity / Jitter *Best* Bundle (MSOX6004JIT) is built around the 4-channel, 2.5-GHz bandwidth InfiniiVision 6000 X-Series mixed signal oscilloscope (MSO) that samples at rates up to 20 GSa/s and comes with a built-in 2-channel function / arbitrary waveform generator, as well as the ultimate bundle software package.

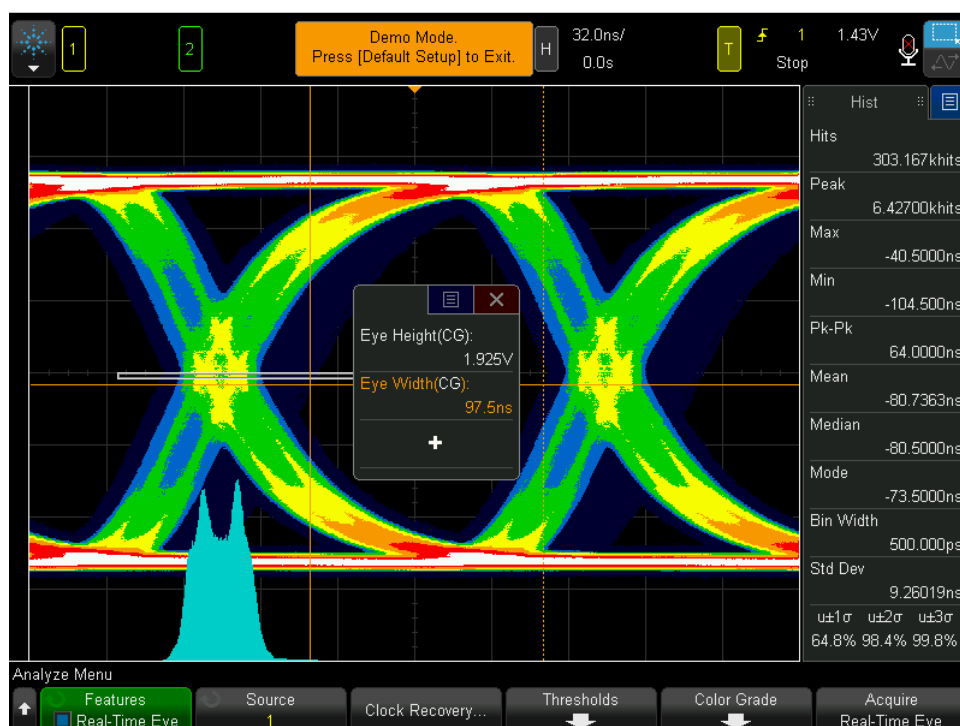


Figure 6. Eye-diagram with jitter histogram using MSO6004JIT High-Speed / Jitter *Best* Bundle.

Included in the High-Speed / Jitter *Best Bundle* is the N2751A 3.5-GHz differential active probe for probing high-speed differential signals such as the USB 2.0 hi-speed bus. Below is a summary of what's included in the High-Speed / Jitter *Best Bundle*:

High-Speed / Jitter <i>Best Bundle</i> : MSOX6004JIT	
MSOX6004A	4+16 channel, 1-GHz mixed signal oscilloscope
DSOX6004A-02G	2.5-GHz bandwidth option
D6000BDLB	Ultimate bundle software option
DSOX6WAVEGEN2	2-channel function / arbitrary waveform generator
N2751A	3.5-GHz differential active probe

Performance Characteristics

Performance specifications and characteristics of oscilloscopes and probes and accessories that are included in each of the InfiniiVision application bundles can be found in the data sheets and selection guides of specific products listed in the related literature section below.

Related Literature

Literature description	Publication number
InfiniiVision 3000T X-Series Oscilloscopes – Data Sheet	5992-0140EN
InfiniiVision 4000 X-Series Oscilloscopes – Data Sheet	5991-1103EN
InfiniiVision 6000 X-Series Oscilloscopes – Data Sheet	5991-4087EN
InfiniiVision Oscilloscopes Probes and Accessories – Selection Guide	5968-8153EN
U1880A Voltage-to-Current Probe Deskew Fixture – Users Guide	U1880-97000
D3000AUTB/D4000AUTB/D6000AUTB Automotive Software – Data Sheet	5992-3912EN
D3000PWRB/D4000PWRB/D6000PWRB Power Software – Data Sheet	5992-3925EN
D3000BDLB/D4000BDLB/D6000BDLB Ultimate Bundle Software – Data Sheet	5992-3918EN
D6000USBB Jitter/USB Software – Data Sheet	5992-3920EN

Ordering Information

Product description	Model number
InfiniiVision Power <i>Better</i> Bundle	DSOX3054PWR
InfiniiVision Power <i>Best</i> Bundle	MSOX4154PWR
InfiniiVision High-Speed/Jitter <i>Better</i> Bundle	DSOX6004JIT
InfiniiVision High-Speed/Jitter <i>Best</i> Bundle	MSOX6004JIT

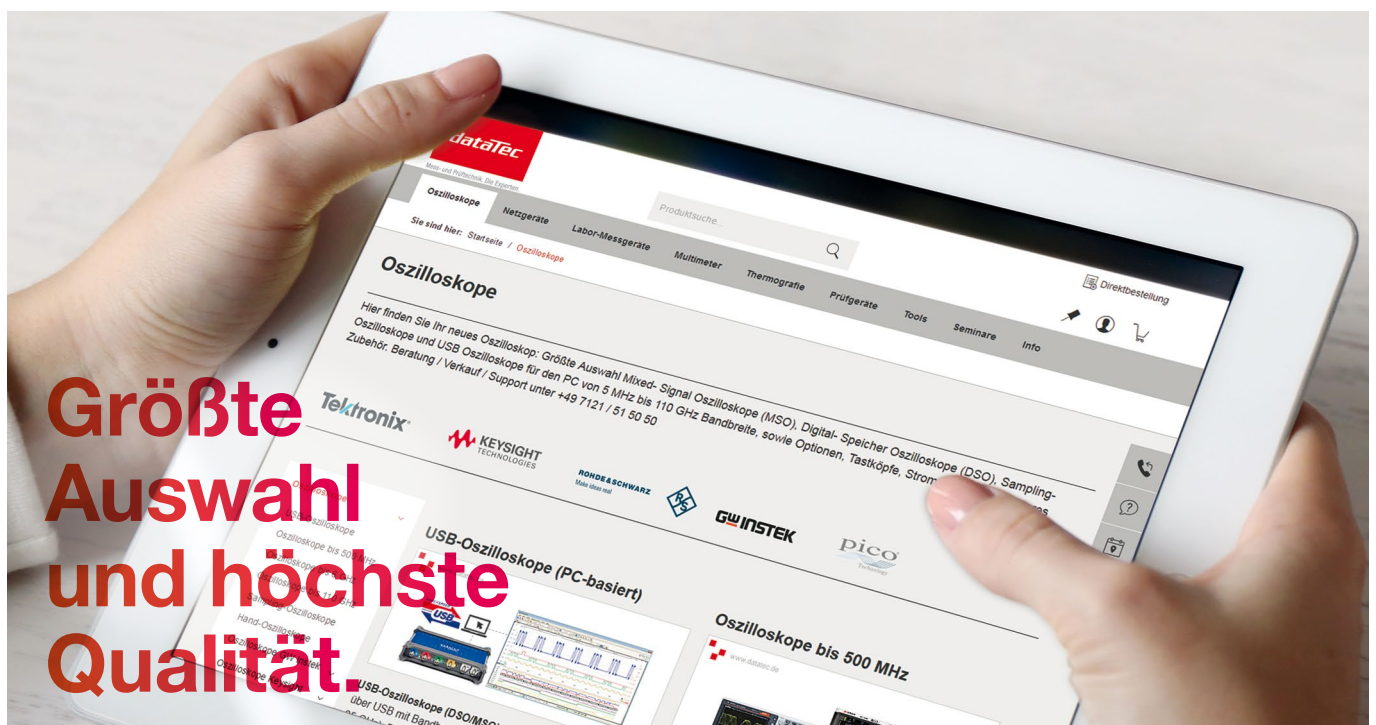
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