Versatility unleashed, possibilities amplified

CSG Product Management | Special Edition Newsletter

Introducing the New InfiniiVision 4000G X-Series Oscilloscope

We are happy to introduce a new member of the Keysight InfiniiVision oscilloscope family, the 4000G X-Series! This new scope encompasses a combination of **advanced** performance, **intuitive** usability, and **versatile** functionality.

The new scope is **NOW AVAILABLE FOR SALE FOR STOCKING** prior to the public launch. If you have any questions regarding ordering, please contact Erin East or your local contact.

Keysight has established fundamental features that should be standard on all oscilloscopes, including zone trigger, segmented memory, and a fast, uncompromised waveform update rate. Beyond these foundational functions that distinguish InfiniiVision from competitors, the new 4000G X-Series goes a step further by incorporating more advanced features as part of its standard configuration: dual waveform generators, mask testing, frequency response analysis, histograms, and hardware-based serial decoding capabilities.

With the same user-friendly interface and large screen as the 4000A X-Series models, the G models ensure optimal testing efficiency with easy setup and navigation.

Integrated instruments, license upgradeable options, and an extensive portfolio of probes and accessories make the 4000 X-Series an ideal solution for both general debugging or more industry-specific applications such as power analysis, automotive systems, semiconductor development, and education labs.

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Why Should Your Customer Care?

✓ Advanced Performance
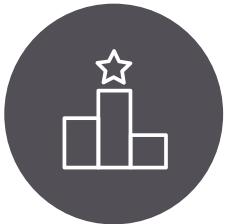
- **Easiest triggering system in the industry** – zone trigger
- Industry's **fastest uncompromised waveform update rate** of 1 million wfms/s
- **Advanced features part of standard config**, competition doesn't have them or charges extra: WaveGen, hardware-based mask testing, measurement limit testing, FRA, histograms, hardware-based serial decoding, segmented memory

✓ Intuitive Usability and Ordering
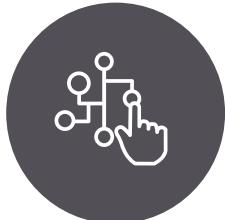
- User-friendly InfiniiVision interface ensuring easy setup and navigation
- **Built-in help on every button** and zone trigger simplify complex analysis
- Options **bundled into standard configuration** makes purchasing even more simple

✓ Versatile Functionality
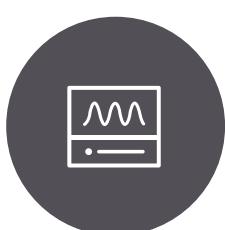
- Dive deeper, faster with **multiple instruments integrated in one**: FRA, counter/totalizer, DVM, WaveGen, hardware-based protocol analysis, 16 digital channels
- Extensive portfolio of probes and accessories
- Industry-specific software, such as power analysis suite including automatic **power supply rejection ratio** and **control loop response** analysis measurements

Value to the customer

With **standard** mask testing, dual waveform generators, histogram capabilities, serial trigger and decode (I^2C, SPI, RS232, I^2S, USB-PD, and more), mask testing, and frequency response analysis - the 4000G offers exceptional value, conveniently bundled into a single package at a price much lower than purchasing these features individually.

What are the Key Applications?
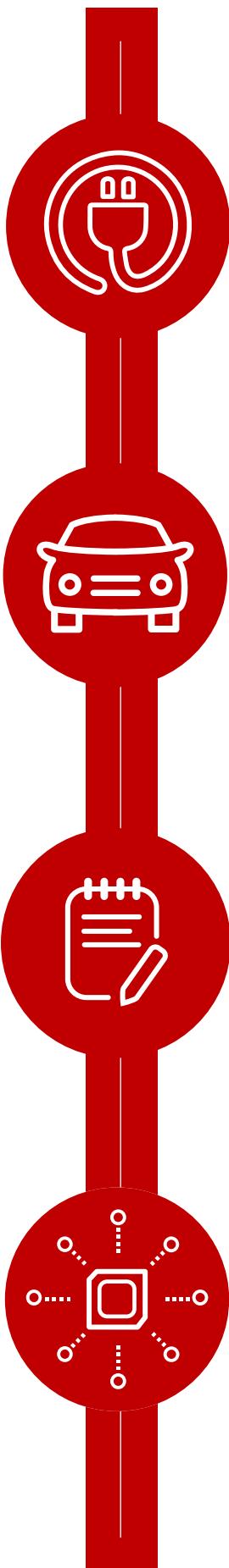
Power

Switch mode power supply characterization with automatic measurements such as power quality, current harmonics, power supply rejection ratio, and control loop response

Automotive

Have confidence your design has no defects with the widest range of serial decodes in this class at the industry's fastest uncompromised waveform update rate

Education

With built-in help full control over the instruments functionality, educators can ensure they are helping students learn in the most efficient way on industry-standard scopes

General Embedded Design

All engineers share interest in the advanced features that are now standard on the 4000G: quick pass/fail mask testing, frequency response analysis, dual WaveGen, etc.

4000G X-Series Key Specifications and Standard Features

Advanced features now part of standard configuration:

- Dual, built-in waveform generators

- Waveform & measurement histograms

- Mask limit testing

- Measurement limit testing

- Frequency response analysis (Bode plots)

- Hardware-based serial trigger and decodes: I2C, SPI, UART, I2S and USB-PD trigger & decode

- Enhanced HDTV video analysis

Bandwidth	200 MHz to 1.5 GHz
Analog channels	2 or 4
Digital channels	16 (MSO models or upgrade)
Waveform update rate	1,000,000 wfms/s uncompromised
Max sampling rate	5 GSa/s
Touch screen size	12.1 in
Zone trigger	Standard
WaveGen	Dual integrated function/arbitrary waveform generator
Segmented memory	Standard

Important Dates and Information

- **Available for purchase by partners for stocking:** October 1, 2023
- **Public introduction:** January 15, 2024
- **First stocking shipments:** November 2023
- **Next partner training:** November 2023
- **Keysight demo units:** November 2023

- **Distribution demo units:** distributors can order demo units starting October 1, 2023. Please note all partner demo units must be purchased with the –DST license at time of purchase. *This cannot be applied to the instrument post-purchase.*
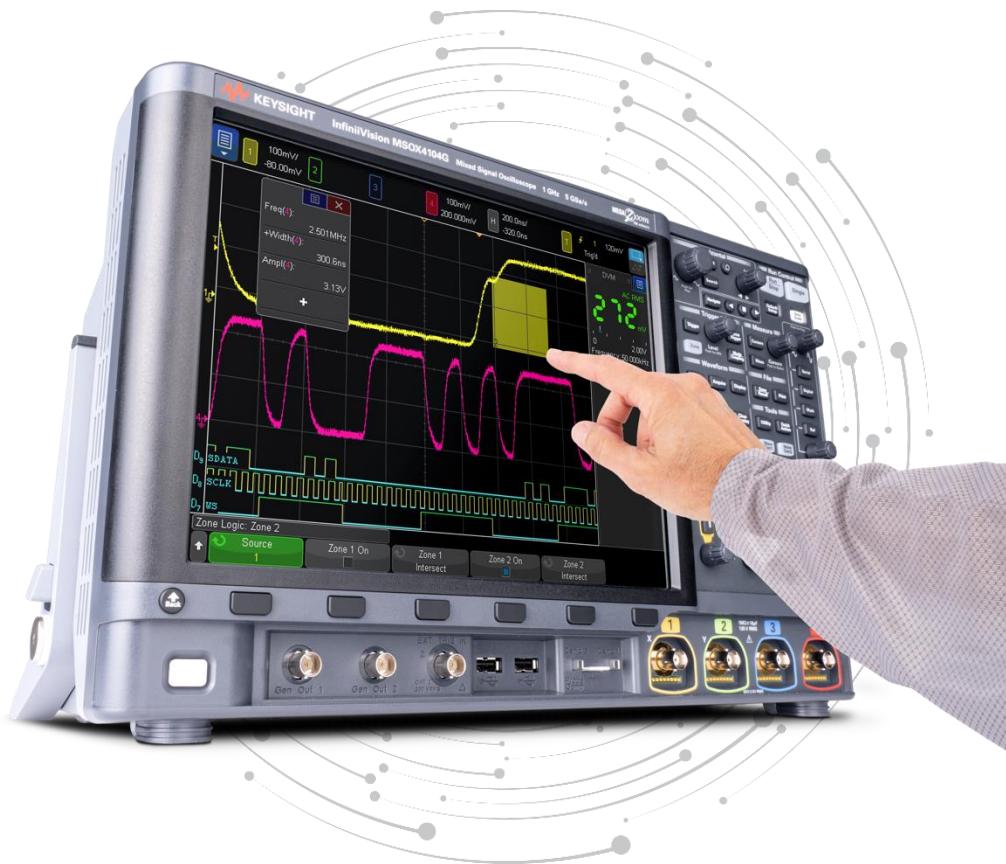
Updated InfiniiVision literature, demo guides, videos, and other marketing collateral will be made available over the next few months until the public launch

Resources

[4000G X-Series Gateway Folder](#)

Tools	Customer Viewable?
Data Sheet	Yes
Product Images	Yes
Customer Slides	Yes
Product 1-Pager	Yes
Competitive 1-Pager	No
Introduction to the 4000G X-Series – Distributor Training	No

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