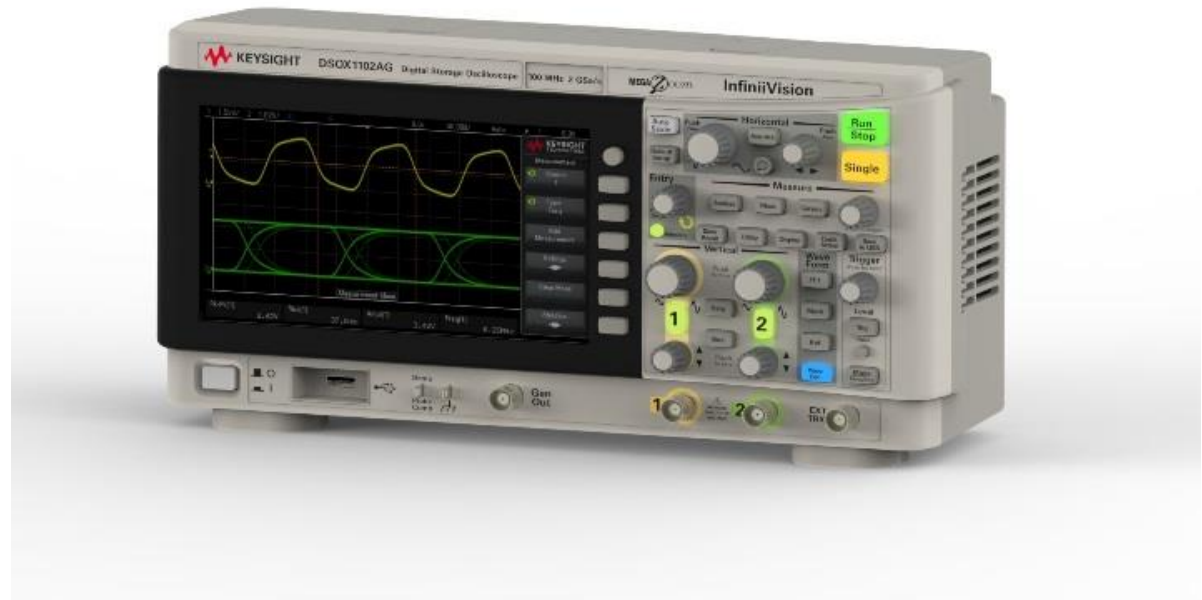
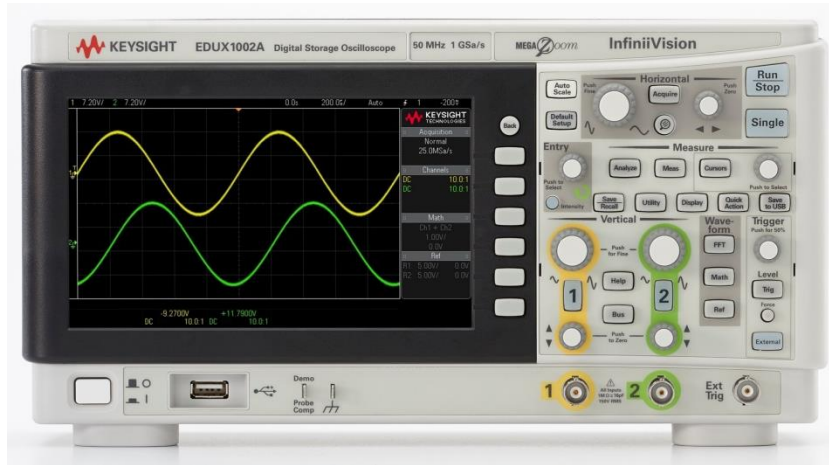


# InfiniiVision 1000 X-Series Oscilloscopes



# Scrap the Toys. Get a Real Oscilloscope!

## Keysight's InfiniiVision 1000 X-Series



- Low price, models start at \$449
- 50 MHz to 100 MHz
- See more signal detail with 50,000 wfms/sec update rate
- Make professional measurements, including mask, math, FFT, analog bus, and protocol triggering/decode
- Quickly learn how to use; Oscilloscopes have built-in help and training signals
- Educators can easily set up teaching labs with the free Educator's Resource Kit

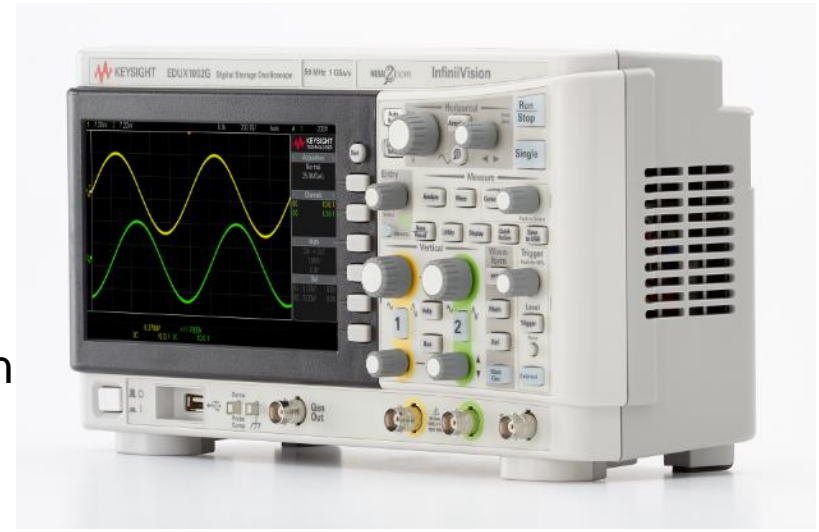
# Key Specifications

Models	EDUX1002A	EDUX1002G	DSOX1102A	DSOX1102G
Bandwidth	50 MHz		70 MHz	
Bandwidth upgrade	-		100 MHz opt (DSOX1B7T102) \$230 (USD)	
Display	7 inch WVGA non-touch			
Waveform update	50,000 wfms/sec			
Vertical sensitivity	500 uV/div ~ 10 V/div			
Trigger-view 3rd channel	Standard			
Education kit	Standard			
DVM	Free with the customer registration			
Channels	2 channel			
Probes	1:1, 10:1 switchable 70 MHz N2142A		1:1, 10:1 switchable 200 MHz N2140A	
Sampling rate	1 GSa/s		2 GSa/s	
Memory	100 kpts standard		1 Mpts standard	
Segment memory	-		Standard	
Mask/limit test	-		Standard	
WaveGen (20 MHz)	-	Yes, standard	-	Yes, standard
Bode plot	-	Yes, standard	-	Yes, standard
Serial decodes	I <sup>2</sup> C, UART (opt. EDUX1EMBD) \$150 (USD)		I <sup>2</sup> C, UART (opt. DSOX1EMBD) CAN, LIN (opt. DSOX1AUTO) \$150 (USD) each	
Warranty	3 year standard (5 year option)			
Firmware	InfiniiVision entry firmware			

# Test Quickly and Easily

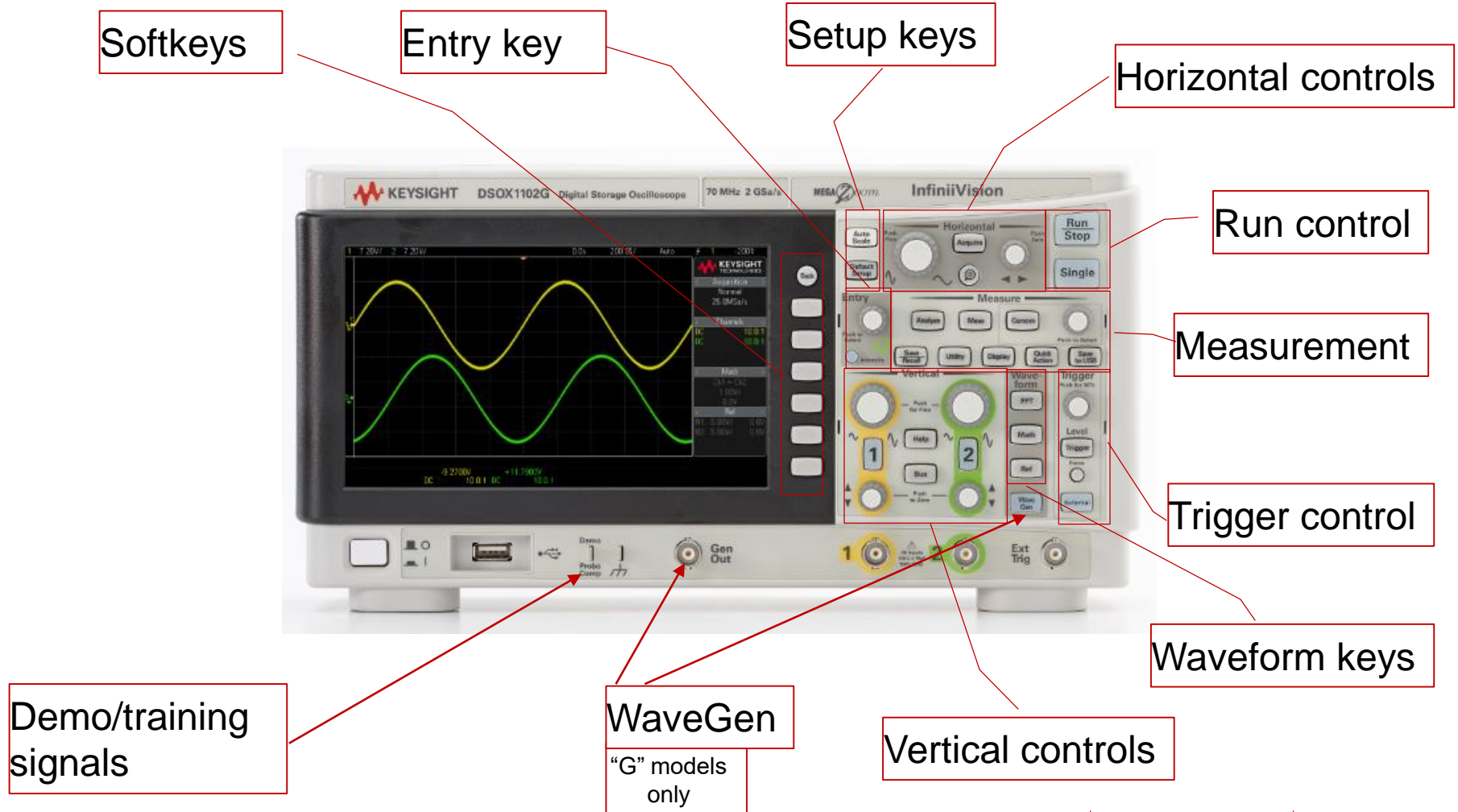
With intuitive GUI and built-in help

- The InfiniiVision 1000 X-Series has an industry-standard front panel with pushable knobs for quick access to commonly used oscilloscope functions
- Getting up to speed on oscilloscope functionality is made easier with built-in help features
- Simply press and hold any button to access help screens with short setup tips
- The built-in help is available in 15 different languages



# Test Quickly and Easily

With intuitive GUI and built-in help



# Test Quickly and Easily

Free training signals, teaching lab, and more



Example training signal “Digital Burst with Infrequent Glitch” is used to teach students how to trigger the scope on complex digital signals and how to perform more advanced measurements.

- The 1000 X-Series has training features that are ideal for students and beginners that are learning how to use oscilloscopes
  - 11 built-in training signals
  - Comprehensive oscilloscope lab guide (for students)
  - Tutorial for undergraduate students
  - Oscilloscope fundamentals PowerPoint (for professors and lab assistants)
- These training features are provided at no additional cost!



# Get Professional-level Oscilloscope Functionality

## With 6-in-1 instrument integration

### – Oscilloscope

- Professional performance provided by the leader in measurement technology

### – Frequency response analysis (Bode Plot) (EDUX1002G and DSOX1102G only)

- Gain and phase plot utilizing the scope's built-in WaveGen to sweep from 20 Hz up to 20 MHz

### – WaveGen function generator (EDUX1002G and DSOX1102G only)

- Built-in 20 MHz function generator with a modulation capability

### – Serial protocol analyzer (with additional software)

- Communication protocols I<sup>2</sup>C, UART/RS-232, and automotive protocols CAN, LIN

### – Digital voltmeter

- Both the digital voltmeter (DVM) and triggered oscilloscope measurements can be made with the same connection

### – Frequency counter

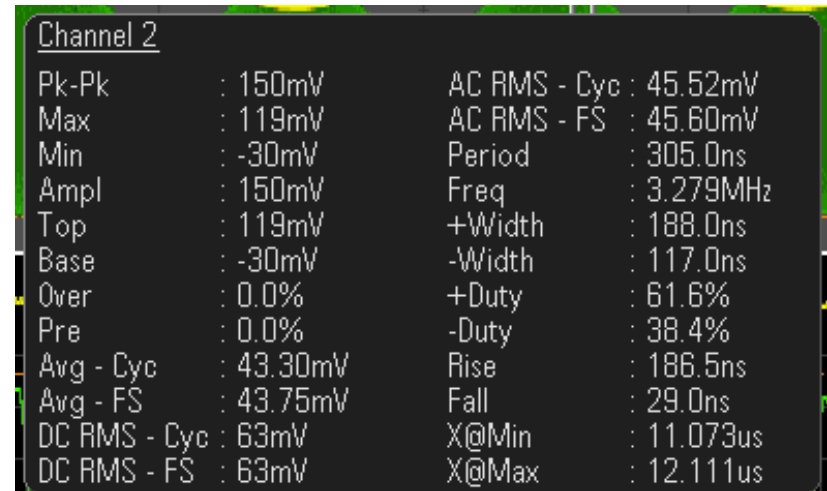
- 5-digit accuracy up to oscilloscope bandwidth

# Get Professional-level Oscilloscope Functionality

## With industry-leading software analysis

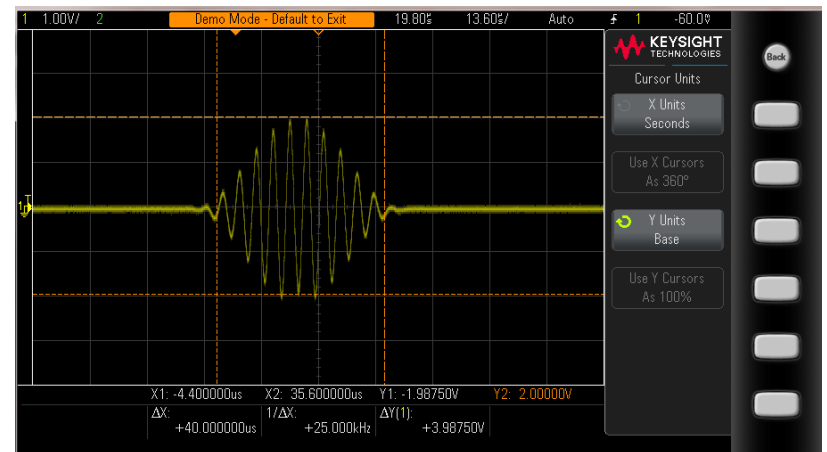
### – Automatic measurements

- 1000 X-Series has 24 typical oscilloscope measurements so you can quickly analyze signals and determine signal parameters
- Up to four individual measurements can be displayed in real-time with continuous updates on the screen



### – Cursors

- Cursors allow you to quickly make detailed measurements on the waveform.
- Whether you're measuring voltage, time or frequency, the set of X and Y cursors support precise user-defined measurement





# Get Professional-level Oscilloscope Functionality

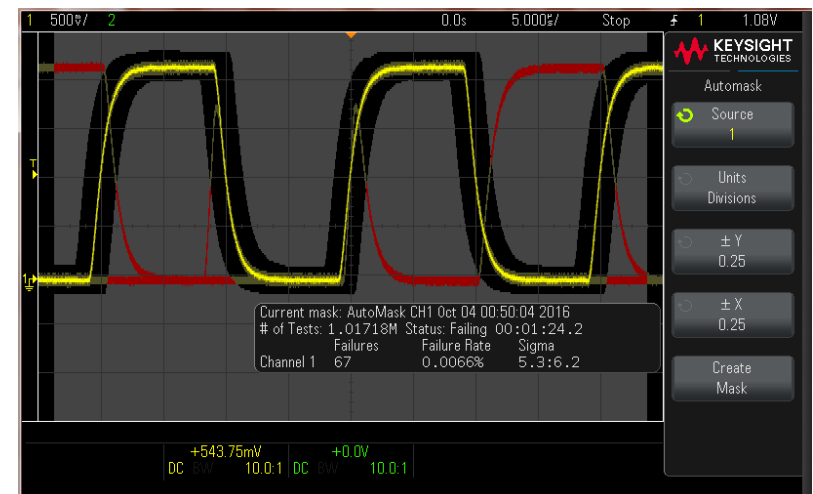
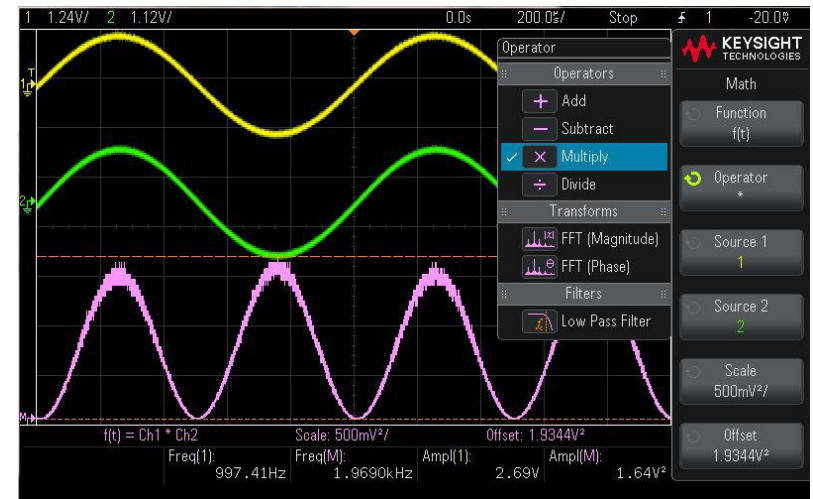
## With industry-leading software analysis

### – Math

- Perform an arithmetic operation (like add, subtract or multiply) on analog input channels
- Perform a transform function on the result of an arithmetic operation

### – Mask

- Whether performing pass/fail tests to specified standards or testing for infrequent signal anomalies, the mask test option can be a valuable productivity tool
- The 1000 X-Series has hardware-based mask testing that can perform up to 50,000 tests per second

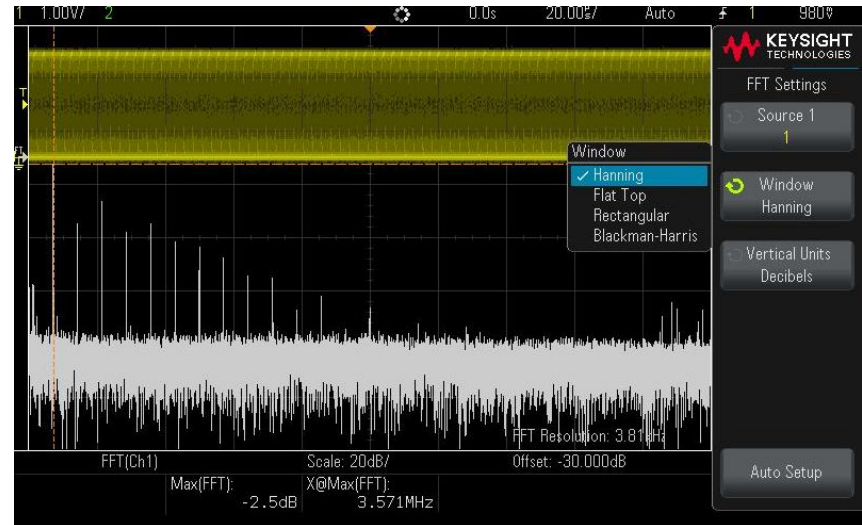


# Get Professional-level Oscilloscope Functionality

## With industry-leading software analysis

### – FFT (Fast Fourier Transform)

- Use the FFT function to to:
  - Find crosstalk problems
  - Find distortion problems in analog waveforms caused by amplifier non-linearity
  - Adjust analog filters
- FFT spectrum is plotted on the oscilloscope display as magnitude in dBV versus frequency
- The readout for the horizontal axis changes from time to frequency (Hertz) and the vertical readout changes from volts to dB



# 1000 X-Series Oscilloscopes

## Other productivity features

### – Multi-language support

- GUI, built-in help system, front panel overlays and user's manual are available in 15 languages
- Choose from: English, Simplified Chinese, Traditional Chinese, Japanese, Korean, German, French, Spanish, Russian, Portuguese, Thai, Polish, Italian, Czech and Turkish

### – Reference waveforms

- Save reference waveforms to perform post analysis and measurements on stored data



# 1000 X-Series Oscilloscopes

## Other productivity features

### – USB save

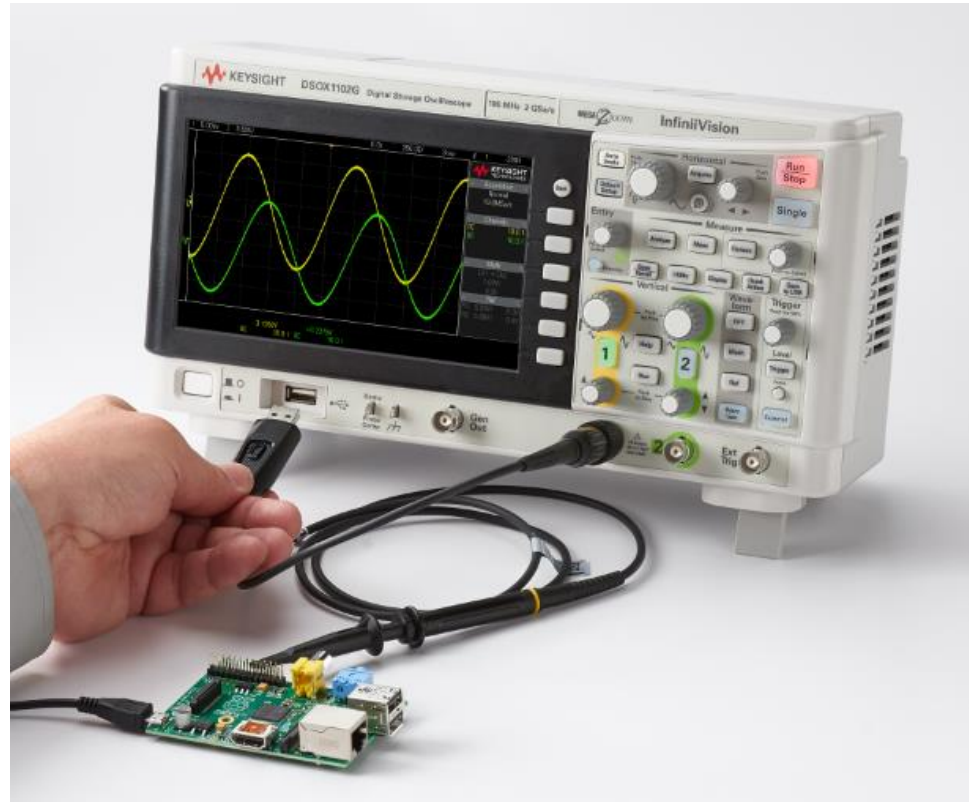
- Setups, reference waveforms and mask files can be saved to internal oscilloscope memory or to a USB storage device and recalled later

### – Connectivity compatibility

- BenchVue lets you visualize the 1000 X-Series and multiple measurements simultaneously

### – Offline analysis software

- Infiniium Offline PC-based oscilloscope analysis software lets you do additional signal viewing, analysis and documentation tasks while you're away from your oscilloscope



# Keysight's InfiniiVision 1000 X-Series

## Scrap the Toys. Get a Real Oscilloscope!



**EDUX1002A**  
50 MHz, 2 channel



**EDUX1002G**  
50 MHz, 2 channel  
with function generator



**DSOX1002A**  
100 MHz, 2 channel



**DSOX1002G**  
70/100 MHz, 2 channel  
with function generator



# Keysight's InfiniiVision X-Series Family

Sometimes the job is making a design work better, and sometimes it's just making it work. Whatever challenges you face, InfiniiVision oscilloscopes can help. The reason: Whether you use a scope once a day, once a week or once a month, InfiniiVision is ready to inspire quicker insight. They are built around Keysight technology that puts automated measurements and accessible expertise at your fingertips. Get quality and confidence with InfiniiVision oscilloscopes.



**1000 X-Series**  
50 to 100 MHz



**2000 X-Series**  
70 to 200 MHz



**3000T X-Series**  
100 MHz to 1 GHz



**4000 X-Series**  
200 MHz to 1.5 GHz



**6000 X-Series**  
1 to 6 GHz

# Thank you!

For more information about the 1000 X-Series:

[www.keysight.com/find/1000XSeries](http://www.keysight.com/find/1000XSeries)