

# Why Upgrade to HD3 Series Oscilloscopes

The InfiniiVision HD3 Series oscilloscope enables you to capture small signals more accurately than ever before with its low noise front-end and 14-bit ADC. This offers you 4x more vertical resolution relative to other 12-bit oscilloscopes. Combine this with the uncompromised waveform update rate, powerful new features such as Fault Hunter, deep memory, and hardware accelerated testing, and the HD3 Series is the perfect oscilloscope for your applications.

## Benefits of the HD3 Series Over the 3000G / 4000G

### The HD3 provides greater resolution and accuracy

- Able to see finer signal detail with 64x better resolution due to 14 bit vs 8 bit ADC
- 5x lower noise for increased accuracy
- Increased accuracy via split grids (maximize use of ADC) and bandwidth limiting controls

### The HD3 has deeper memory, standard MSO, and an enhanced WaveGen

- 25x more memory
- MSO license comes standard (can re-use your existing MSO cable)
- 100 MHz WaveGen vs 20 MHz WaveGen, enhanced DAC

### The HD3 makes debugging easier than ever

- Brand new user interface with capabilities such as split grids helps you optimize the display of your signals
- Fault Hunter - innovative software automates debugging, enabling you to easily analyze glitches, slow edges, runts and more while you do other work
- Larger display than the 3000G (10.1" vs 8.5"), Higher resolution



## HD3 Series Oscilloscope

200 MHz to 1 GHz bandwidth, upgradeable

New custom ASIC

14 bit ADC, Low-noise front-end

Up to 100 Mpts / channel

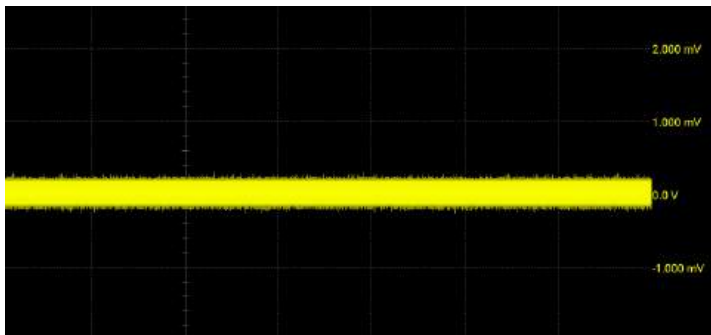
Uncompromised >1,300,000 wfms/sec update rate

Brand new user interface

	Keysight HD3 Series	Keysight 3000G X-Series	Keysight 4000G X-Series
ADC Bits	14	8	8
Max Memory Depth	100 Mpts	4 Mpts	4 Mpts
Waveform Update Rate	>1,300,000 wfms/sec	1,000,000 wfms/sec	1,000,000 wfms/sec
Noise Floor <sup>1</sup>	50 $\mu\text{V}_{\text{RMS}}$	260 $\mu\text{V}_{\text{RMS}}$	260 $\mu\text{V}_{\text{RMS}}$
Display Size	10.1"	8.5"	12.1"
Display Resolution	1200 x 800	800 x 480	800 x 600
MSO License	Standard	Option	Option
Fault Hunter	Yes	No	No
WaveGen	100 MHz	20 MHz	20 MHz
Split Grids and BW Limiting Options	Yes	No	No
USB 3.0 Ports	Yes	No	No

<sup>1</sup>RMS Noise floor at 2mV/div, 50 $\Omega$ , 1 GHz BW

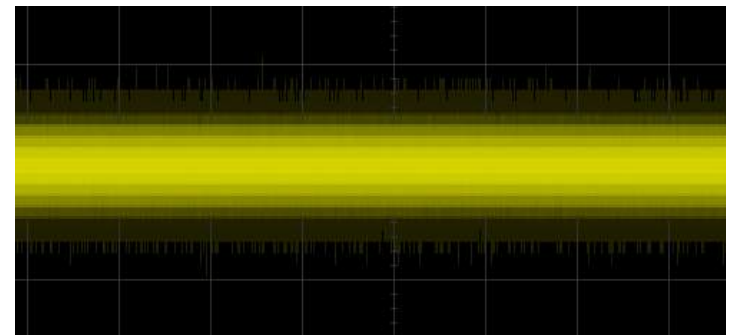
## HD3 Series



31.5  $\mu\text{V}_{\text{RMS}}$

See finer signal detail and make more accurate measurements with the higher resolution and lower noise of the HD3 Series

## 3000G X-Series



277  $\mu\text{V}_{\text{RMS}}$