WaveSurfer 3000 Oscilloscopes
(200 MHz – 750 MHz)

Key Features

- **200 MHz, 350 MHz, 500 MHz and 750 MHz bandwidths**

- **Up to 4 GS/s sample rate**

- **Long Memory – 10 Mpts/Ch**

- **10.1" touch screen display**

- **MAUI - Advanced User Interface**
  - Designed for Touch
  - Built for Simplicity
  - Made to Solve

- **Advanced Anomaly Detection**
  - Fast Waveform Update
  - History Mode
  - WaveScan

- **Superior Toolset**
  - LabNotebook
  - Sequence Mode
  - Advanced Active Probe Interface
  - Powerful Math and Measure

- **Multi-Instrument Capabilities**
  - Protocol Analysis - Serial Trigger and Decode
  - Waveform Generation - Built-in Function Generator
  - Logic Analysis - 16 Channel MSO
  - Digital Voltmeter

- **Future Proof**
  - Upgradeable Bandwidth
  - Field Upgradable Software and Hardware Options

WaveSurfer 3000 oscilloscopes feature the MAUI advanced user interface with touch screen simplicity to shorten debug time. Quickly identify and isolate anomalies with WaveScan, Fast Display, and History mode for faster troubleshooting; LabNotebook enables easy documentation and convenient collaboration. The advanced probe interface, upgradable bandwidth, and multi-instrument capabilities provide maximum versatility and investment protection.

MAUI - A New Wave of Thinking

MAUI is the most advanced oscilloscope user interface. MAUI is designed for touch; all important oscilloscope controls are accessed through the intuitive touch screen. MAUI is built for simplicity; time saving shortcuts and intuitive dialogs simplify setup. MAUI is made to solve; deep set of debug and analysis tools help identify problems and find solutions quickly.

Advanced Anomaly Detection

Combining a fast waveform update rate of 130,000 waveforms/second with History mode waveform playback and WaveScan search and find, the WaveSurfer 3000 is an outstanding tool for waveform anomaly detection.

Capture, Debug, Analyze, Document

The advanced active probe interface gives tremendous flexibility for capturing all types of signals. Debug, analyze and document problems through the use of powerful math and measurement capabilities, sequence mode segmented memory, and LabNotebook.

Multi-Instrument Capabilities

Beyond traditional oscilloscope functionality, the WaveSurfer 3000 has a variety of multi-instrument capabilities including waveform generation with a built-in function generator, protocol analysis with serial data trigger and decode, logic analysis with an available 16 channel mixed signal option, and digital voltmeter measurements.

200 MHz Bandwidth		Agilent DSOX3024		Tektronix MDO3022/ MDO3024		Teledyne LeCroy WaveSurfer 3022/ WaveSurfer 3024
User Interface	X	Basic	X	Basic	✓	MAUI
Max Sample Rate (Intlv'd)	✓	4 GS/s	X	No Interleaving	✓	4 GS/s
Max Sample Rate (Per Ch)	X	2 GS/s	✓	2.5 GS/s	X	2 GS/s
Std Memory (Per Ch / Intlv'd)	X	1 Mpts / 2 Mpts	✓	10 Mpts / 10 Mpts	✓	10 Mpts / 10 Mpts
Max Memory (Per Ch / Intlv'd)	X	2 Mpts / 4 Mpts	✓	10 Mpts / 10 Mpts	✓	10 Mpts / 10 Mpts
Update Rate	✓	1,000,000 wfms/sec	X	280,000 wfms/sec	X	130,000 wfms/sec
Display	X	8.5"	X	9"	✓	10.1"
Touch Screen	X	No	X	No	✓	Yes
Digital Voltmeter	✓	Yes	✓	Yes	✓	Yes
Digital Channels	✓	16	✓	16	✓	16
MSO Input (Min Pulse/Max Freq)	X	5 ns / 100 MHz	✓	2 ns / 250 MHz	X	4 ns / 125 MHz
Max MSO Sample Rate	✓	1 GS/s	X	500 MS/s	X	500 MS/s
Max Memory (Per Ch / Intlv'd)	X	1 Mpts / 1 Mpts	✓	10 Mpts / 10 Mpts	✓	10 Mpts / 10 Mpts

350 MHz Bandwidth		Agilent DSOX3032/ DSOX3034		Tektronix MDO3032/ MDO3034		Teledyne LeCroy WaveSurfer 3034
User Interface	X	Basic	X	Basic	✓	MAUI
Max Sample Rate (Intlv'd)	✓	4 GS/s	X	No Interleaving	✓	4 GS/s
Max Sample Rate (Per Ch)	X	2 GS/s	✓	2.5 GS/s	X	2 GS/s
Std Memory (Per Ch / Intlv'd)	X	1 Mpts / 2 Mpts	✓	10 Mpts / 10 Mpts	✓	10 Mpts / 10 Mpts
Max Memory (Per Ch / Intlv'd)	X	2 Mpts / 4 Mpts	✓	10 Mpts / 10 Mpts	✓	10 Mpts / 10 Mpts
Update Rate	✓	1,000,000 wfms/sec	X	280,000 wfms/sec	X	130,000 wfms/sec
Display	X	8.5"	X	9"	✓	10.1"
Touch Screen	X	No	X	No	✓	Yes
Digital Voltmeter	✓	Yes	✓	Yes	✓	Yes
Digital Channels	✓	16	✓	16	✓	16
MSO Input (Min Pulse/Max Freq)	X	5 ns / 100 MHz	✓	2 ns / 250 MHz	X	4 ns / 125 MHz
Max MSO Sample Rate	✓	1 GS/s	X	500 MS/s	X	500 MS/s
Max Memory (Per Ch / Intlv'd)	X	1 Mpts / 1 Mpts	✓	10 Mpts / 10 Mpts	✓	10 Mpts / 10 Mpts

500 MHz / 750 MHz Bandwidth		Agilent DSOX3052/ DSOX3054		Tektronix MDO3052/ MDO3054		Teledyne LeCroy WaveSurfer 3054		Teledyne LeCroy WaveSurfer 3074
User Interface	X	Basic	X	Basic	✓	MAUI	✓	MAUI
Max Sample Rate (Intlv'd)	✓	4 GS/s	X	No Interleaving	✓	4 GS/s	✓	4 GS/s
Max Sample Rate (Per Ch)	X	2 GS/s	✓	2.5 GS/s	X	2 GS/s	X	2 GS/s
Std Memory (Per Ch / Intlv'd)	X	1 Mpts / 2 Mpts	✓	10 Mpts / 10 Mpts	✓	10 Mpts / 10 Mpts	✓	10 Mpts / 10 Mpts
Max Memory (Per Ch / Intlv'd)	X	2 Mpts / 4 Mpts	✓	10 Mpts / 10 Mpts	✓	10 Mpts / 10 Mpts	✓	10 Mpts / 10 Mpts
Update Rate	✓	1,000,000 wfms/sec	X	280,000 wfms/sec	X	130,000 wfms/sec	X	130,000 wfms/sec
Display	X	8.5"	X	9"	✓	10.1"	✓	10.1"
Digital Voltmeter	✓	Yes	✓	Yes	✓	Yes	✓	
Touch Screen	X	No	X	No	✓	Yes	✓	Yes
Digital Channels	✓	16	✓	16	✓	16	✓	16
MSO Input (Min Pulse/Max Freq)	X	5 ns / 100 MHz	✓	2 ns / 250 MHz	X	4 ns / 125 MHz	X	4 ns / 125 MHz
Max MSO Sample Rate	✓	1 GS/s	X	500 MS/s	X	500 MS/s	X	500 MS/s
Max Memory (Per Ch / Intlv'd)	X	1 Mpts / 1 Mpts	✓	10 Mpts / 10 Mpts	✓	10 Mpts / 10 Mpts	✓	10 Mpts / 10 Mpts

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