

WaveSurfer 3000 Oscilloscopes

200 MHz – 750 MHz



A New Wave of Thinking

Key Specifications

Bandwidth	200 MHz, 350 MHz, 500 MHz, 750 MHz
User Interface	MAUI
Channels	2 or 4
Sample Rate (Per Ch / Intlv'd)	2 GS/s / 4 GS/s
Standard Memory (Per Ch / Intlv'd)	10 Mpts / 10 Mpts
Update Rate	up to 130,000 waveforms/sec
Display	10.1" Touch Screen
Digital Channels	16
Digital Sample Rate	500 MS/s
Minimum Pulse Width	4 ns
Max MSO Memory	10 Mpts
Connectivity	USB Host, USB Device, LAN, GPIB

Tools for Improved Debugging

- **MAUI - Advanced User Interface**
 - Designed for Touch
 - Built for Simplicity
 - Made to Solve
- **Advanced Anomaly Detection**
 - Fast Waveform Update - up to 130,000 wfms/sec
 - History Mode Waveform Playback
 - WaveScan Search and Find
- **Capture, Debug, Analyze, Document**
 - LabNotebook Documentation Tool
 - Sequence Mode Segmented Memory
 - 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 Upgradeable Software and Hardware Options

For more information, please contact:



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Advanced Anomaly Detection

Quickly identify anomalies through the combination of fast update rate, WaveScan, and History mode



Capture, Debug, Analyze, Document

Flexible probing solutions and powerful math and measurement tools simplify troubleshooting



Multi-Instrument Capabilities

Built in waveform generation, logic analysis, protocol analysis, and digital voltmeter



Ordering Information

Model	Bandwidth	Channels*	Memory (per Ch / interleaved)	Sample Rate (per Ch / interleaved)
WaveSurfer 3022	200 MHz	2 / 2+16	10 Mpts / 10 Mpts	2 GS/s / 4 GS/s
WaveSurfer 3024	200 MHz	4 / 4+16	10 Mpts / 10 Mpts	2 GS/s / 4 GS/s
WaveSurfer 3034	350 MHz	4 / 4+16	10 Mpts / 10 Mpts	2 GS/s / 4 GS/s
WaveSurfer 3054	500 MHz	4 / 4+16	10 Mpts / 10 Mpts	2 GS/s / 4 GS/s
WaveSurfer 3074	750 MHz	4 / 4+16	10 Mpts / 10 Mpts	2 GS/s / 4 GS/s

*16 digital channels available with WS3K-MSO

Available Probes

Single-Ended

ZS1000 1 GHz, 0.9 pF, 1 MΩ High Impedance Active Probe

Differential

AP031 700 V, 15 MHz High-Voltage Differential Probe
HVD3102 1,500 V, 25 MHz High-Voltage Differential Probe
HVD3106 1,500 V, 120 MHz High-Voltage Differential Probe
ZD200 200 MHz Active Differential Probe
ZD500 500 MHz Active Differential Probe
ZD1000 1 GHz Active Differential Probe

Differential Amplifiers

DA1855A 1 Ch, 100 MHz Differential Amplifier
DXC100A 100:1 or 10:1 Selectable, 250 MHz Passive Differential Probe Pair

High-Voltage

HVP120 100:1 400 MHz 50 MΩ 1 kV High-Voltage Probe
PPE1.2KV 10:1/100:1 200/300 MHz 50 MΩ High-Voltage Probe 600V/1.2kV Max. Volt. DC
PPE2KV 100:1 400 MHz 50 MΩ 2 kV High-Voltage Probe
PPE4KV 100:1 400 MHz 50 MΩ 4 kV High-Voltage Probe
PPE5KV 1000:1 400 MHz 50 MΩ 5 kV High-Voltage Probe
PPE6KV 1000:1 400 MHz 50 MΩ 6 kV High-Voltage Probe

Current

CP030 30 A; 50 MHz Current Probe – AC/DC; 30 A_{rms}; 50 A_{peak} Pulse
CP031 30 A; 100 MHz Current Probe – AC/DC; 30 A_{rms}; 50 A_{peak} Pulse
CP150 150 A; 10 MHz Current Probe – AC/DC; 150 A_{rms}; 50 A_{peak} Pulse
CP500 500 A; 2 MHz Current Probe – AC/DC; 500 A_{rms}; 700 A_{peak} Pulse

Excellent Performance

- 200 MHz, 350 MHz, 500 MHz, 750 MHz
- Up to 4 GS/s maximum sample rate
- Up to 10 Mpts/ch
- 16 Channel Mixed Signal Capability

Rich Feature Set

- MAUI - Advanced User Interface
- 10.1" Touch Screen Display
- Fast Waveform Update - up to 130,000 waveforms/sec
- WaveScan search and find
- History Mode waveform playback
- LabNotebook™ Documentation Tool
- Protocol Analysis - I²C, SPI, UART, RS232, CAN and LIN Trigger and Decode
- Waveform Generation - WaveSource Function Generator
- Digital Voltmeter Measurements