



A New **Wave** of Thinking

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



# WaveSurfer 3000 Oscilloscopes

## 200 MHz – 750 MHz



### 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 4kV 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<sub>rms</sub>; 50 A<sub>peak</sub> Pulse

**CP031** 30 A; 100 MHz Current Probe – AC/DC; 30 A<sub>rms</sub>; 50 A<sub>peak</sub> Pulse

**CP150** 150 A; 10 MHz Current Probe – AC/DC; 150 A<sub>rms</sub>; 50 A<sub>peak</sub> Pulse

**CP500** 500 A; 2 MHz Current Probe – AC/DC; 500 A<sub>rms</sub>; 700 A<sub>peak</sub> 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 - I<sup>2</sup>C, SPI, UART, RS232, CAN and LIN Trigger and Decode
- Waveform Generation - WaveSource Function Generator
- Digital Voltmeter Measurements