

## Biggest Touch. Best Value.

100 MHz - 1 GHz



### Tools for Faster Time to Insight

#### MAUI - Advanced User Interface

- Designed for Touch
- Built for Simplicity
- Made to Solve

#### Advanced Anomaly Detection

- Fast Waveform Update
- History Mode - Waveform Playback
- WaveScan - Search and Find

#### Multi-Instrument Capabilities

- Protocol Analysis - Serial Trigger and Decode
- Waveform Generation - Built-in Function Generator
- Digital Voltmeter and Frequency Counter

#### Future Proof

- Upgradeable Bandwidth
- Field Upgradeable Software and Hardware Options

| Key Specifications                 |                                                     |
|------------------------------------|-----------------------------------------------------|
| Bandwidth                          | 100 MHz, 200 MHz, 350 MHz, 500 MHz, 1 GHz           |
| User Interface                     | MAUI                                                |
| Channels                           | 4                                                   |
| Sample Rate (Per Ch / Intlv'd)     | 2 GS/s / 4 GS/s                                     |
| Standard Memory (Per Ch / Intlv'd) | 10 Mpts / 20 Mpts                                   |
| Update Rate                        | up to 130,000 waveforms/sec                         |
| Display                            | 10.1" Capacitive Touch Screen                       |
| Digital Channels                   | 16                                                  |
| Digital Sample Rate                | 500 MS/s                                            |
| Minimum Pulse Width                | 4 ns                                                |
| Max MSO Memory                     | 10 Mpts / 20 Mpts                                   |
| Connectivity                       | USB Host, USB Device, LAN, GPIB, and LXI Compatible |

For more information, please contact:



# WaveSurfer 3000z Oscilloscopes



## Ordering Information

| Model            | Bandwidth | Channels* | Memory<br>(per Ch / interleaved) | Sample Rate<br>(per Ch / interleaved) |
|------------------|-----------|-----------|----------------------------------|---------------------------------------|
| WaveSurfer 3014z | 100 MHz   | 4 / 4+16  | 10 Mpts / 20 Mpts                | 1 GS/s / 2 GS/s                       |
| WaveSurfer 3024z | 200 MHz   | 4 / 4+16  | 10 Mpts / 20 Mpts                | 2 GS/s / 4 GS/s                       |
| WaveSurfer 3034z | 350 MHz   | 4 / 4+16  | 10 Mpts / 20 Mpts                | 2 GS/s / 4 GS/s                       |
| WaveSurfer 3054z | 500 MHz   | 4 / 4+16  | 10 Mpts / 20 Mpts                | 2 GS/s / 4 GS/s                       |
| WaveSurfer 3104z | 1 GHz     | 4 / 4+16  | 10 Mpts / 20 Mpts                | 2 GS/s / 4 GS/s                       |

\*16 digital channels available with WS3Kz-MSO

| Available Probes                             |                                                                                                       |  |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------|--|
| High Voltage Fiber Optically-isolated Probes |                                                                                                       |  |
| HVF0103                                      | High Voltage Fiber Optic Probe, 60 MHz Bandwidth                                                      |  |
| Differential                                 |                                                                                                       |  |
| HVD3102A                                     | 1kV, 25 MHz High Voltage Differential Probe                                                           |  |
| HVD3106A                                     | 1kV, 120 MHz High Voltage Differential Probe                                                          |  |
| HVD3206A                                     | 2kV, 120 MHz High Voltage Differential Probe                                                          |  |
| HVD3605A                                     | 6kV, 100 MHz High Voltage Differential Probe                                                          |  |
| AP031                                        | 700 V, 15 MHz High-Voltage Differential Probe                                                         |  |
| ZD200                                        | 200 MHz Active Differential Probe                                                                     |  |
| ZD1000                                       | 1 GHz Active Differential Probe                                                                       |  |
| ZD1500                                       | 1.5 GHz Active Differential Probe                                                                     |  |
| Single-Ended                                 |                                                                                                       |  |
| ZS1500                                       | 1.5 GHz, 0.9 pF, 1 MΩ High Impedance Active Probe                                                     |  |
| ZS1000                                       | 1 GHz, 0.9 pF, 1 MΩ High Impedance Active Probe                                                       |  |
| Active Voltage Rail Probe                    |                                                                                                       |  |
| RP4030                                       | Power/Voltage Rail Probe. 4 GHz, ±30V offset, ±800mV                                                  |  |
| High Voltage                                 |                                                                                                       |  |
| HVP120                                       | 400 MHz, 1kV V <sub>rms</sub> High-Voltage Passive 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                                        | 30A; 50 MHz Current Probe – AC/DC; 30 A <sub>rms</sub> ; 50 A <sub>peak</sub> Pulse                   |  |
| CP030A                                       | 30A, 50 MHz High Sensitivity Current Probe - AC/DC; 30 A <sub>rms</sub> ; 50 A <sub>peak</sub> Pulse, |  |
| CP031                                        | 30A; 100 MHz Current Probe – AC/DC; 30 A <sub>rms</sub> ; 50 A <sub>peak</sub> Pulse                  |  |
| CP031A                                       | 30A; 100 MHz High Sensitivity Current Probe – AC/DC; 30 A <sub>rms</sub> ; 50 A <sub>peak</sub> Pulse |  |
| CP150                                        | 150A; 10 MHz Current Probe – AC/DC; 150 A <sub>rms</sub> ; 50 A <sub>peak</sub> Pulse                 |  |
| CP500                                        | 500A; 2 MHz Current Probe – AC/DC; 500 A <sub>rms</sub> ; 700 A <sub>peak</sub> Pulse                 |  |
| Probe Adapters                               |                                                                                                       |  |
| TPA10                                        | TekProbe to ProBus Probe Adapter                                                                      |  |
| CA10                                         | Programmable ProBus Current Adapter                                                                   |  |

## Excellent Performance

- 100 MHz, 200 MHz, 350 MHz, 500 MHz, 1 GHz
- Up to 4 GS/s maximum sample rate
- Up to 20 Mpts/ch
- 16 Channel Mixed Signal Capability

## Rich Feature Set

- MAUI - Advanced User Interface
- 10.1" Capacitive 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, Audibus (I<sup>2</sup>S, LJ, and RJ), CAN and LIN Trigger and Decode
- Waveform Generation - WaveSource Function Generator
- Digital Voltmeter Measurements

wavesurfer3kz-fact-sheet-26mar18