

## High Performance. Powerful Toolbox.

1 GHz



### Key Specifications

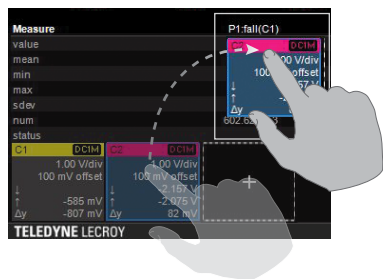
<b>Bandwidth</b>	1 GHz
<b>Resolution</b>	8-bit ADC resolution, up to 11-bit with enhanced resolution
<b>Channels</b>	4 or 4 + 18
<b>Memory</b>	Up to 32 Mpts
<b>Sample Rate</b>	Up to 10 GS/s
<b>User Interface</b>	MAUI with OneTouch
<b>Display</b>	12.1" Wide TFT-Active Matrix with high resolution touch screen
<b>Connectivity</b>	USB 3.1 Host, USB 3.1 Device, LAN, GPIB

### Tools for Faster Time to Insight

- **MAUI with OneTouch**
  - Designed for Touch
  - Built for Simplicity
  - Made to Solve
- **Superior User Experience** – Most unique touch features on any oscilloscope
- **Uncompromised Performance** – 1 GHz bandwidth with up to 10 GS/s per channel and 32 Mpts of memory
- **LabNotebook** – Save all results and data with a single button press and create custom reports
- **Advanced Math and Measure** – Use automatic measurement parameters with statistics and histograms as well as math functions to understand every waveform detail.
- **Software Options** - Packages for advanced analysis
  - Serial Bus Trigger and Decode
  - Spectrum Analyzer Option
  - Power Analysis

For more information, please contact:





MAUI with OneTouch optimizes convenience and efficiency. All common operations can be performed with a single touch.



Advanced debug tools make the WaveSurfer 510 into an unparalleled analysis and debug machine.



Add the MS-250 to the WaveSurfer 510 to view and measure analog, digital and serial data signals in one place.



## MAUI - Superior User Experience

- Drag and drop to copy and setup channels, math functions, and parameters
- Quickly enable new channel, math or measure with “Add New” button
- Turn off a trace with a flick of a finger
- Multi-touch gesture support

## Powerful, Deep Toolbox

- WaveScan™ advanced search and find
- LabNotebook™ report generator
- History Mode - Waveform Playback
- Sequence Mode Segmented Memory
- Spectrum Analyzer Mode
- Power Analysis Software

## Exceptional Serial Data Tools

- I<sup>2</sup>C, SPI, UART
- CAN, LIN, FlexRay, SENT
- Ethernet 10/100BaseT, USB 1.0/1.1/2.0, USB2.0-HSIC
- Audio (I<sup>2</sup>S, LJ, RJ, TDM)
- MIL-STD-1553, ARINC 429
- MIPI D-PHY, DigRF 3G, DigRF v4
- Manchester, NRZ, MDIO, SpaceWire, SPMI

## Ordering Information

Model	Bandwidth	Channels	Standard Memory	Sample Rate
WaveSurfer 510	1 GHz	4 / 4+18	32 Mpts	10 GS/s

### Available Probes

#### High Voltage Fiber Optically-isolated Probes

**HVF0103** High Voltage Fiber Optic Probe, 60 MHz Bandwidth.

#### Differential

**HVD3102** 1kV, 25 MHz High Voltage Differential Probe  
**HVD3106** 1kV, 120 MHz High Voltage Differential Probe  
**HVD3206** 2kV, 120 MHz High Voltage Differential Probe  
**HVD3605** 6kV, 100 MHz High Voltage Differential Probe  
**AP033** 500 MHz Active Differential Probe  
**ZD200** 200 MHz Active Differential Probe  
**ZD500** 500 MHz Active Differential Probe  
**ZD1000** 1 GHz Active Differential Probe  
**ZD1500** 1.5 GHz Active Differential Probe

#### Differential Amplifiers

**DA1855A** 1 Ch, 100 MHz Differential Amplifier

#### 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

#### 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

#### Active Voltage Rail Probe

**RP4030** Power/Voltage Rail Probe. 4 GHz, ±30V offset, ±800mV

#### Probe Adapters

**TPA10** TekProbe to ProBus Probe Adapter  
**CA10** Programmable ProBus Current Adapter