

OSCILLOSCOPE FAMILY

Additional models for high-end and entry-level

Teledyne Lecroy has introduced the Wavesurfer 3000z oscilloscopes. They expand bandwidth range above and below that of earlier models, while also bolstering functionality for power-electronics testing.



Add-on software enables the oscilloscopes to analyze serial data including Classical CAN and CAN FD frames (Photo: Teledyne Lecroy)

All Wavesurfer 3000z oscilloscopes feature a 10.1-inch capacitive touch screen, a set of debug and analysis tools, multi-instrument capabilities, feature/option upgrades, and support for a probe range. The product comes in five models with bandwidths from 100 MHz to 1 GHz and sample rates up to four billion samples per second. The 100-MHz model is an entry-level oscilloscope featuring the same functions as the high-end 1-GHz model. The entry-level version addresses the requirements of general-purpose debugging and validation tasks, while the 1-GHz model serves users looking for the bandwidth to tackle sophisticated applications such as higher-speed serial communications test and RF signal analysis.

The oscilloscope combines an entirely new CPU engine, an improved internal-communications bus, and up to 20 million points of acquisition memory, twice that of the Wavesurfer 3000. There is also the Power Analysis software package available. It performs detailed analysis of line power, control loops, and system/device power performance. With analysis features such as History mode for waveform playback, triggering capabilities, and Wavescan advanced search and find, the oscilloscope can detect and isolate signal anomalies.

The oscilloscope can serve as a 5-in-1 instrument. The function-generator option offers a collection of waveforms at up to 25 MHz, while the logic-analyzer option provides 16 digital channels for mixed-signal capabilities. A digital voltmeter option performs 4-digit voltage measurements and 5-digit frequency counting on any channel, and the protocol-analyzer option with serial trigger/decode features intuitive, color-coded waveform overlays and interactive data tables.

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