

PRESS RELEASE

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Next-generation ScopeCorder features higher-speed sampling, real-time recording and enhanced PC functionality

- Target markets include automotive, mechatronics and energy-saving applications -

Newnan, Georgia- The new Yokogawa DL850 is the next generation of the company's highly successful family of ScopeCorders: versatile instruments that combine the benefits of a high-speed oscilloscope and those of a traditional data acquisition recorder in a single, portable instrument.

The DL850 ScopeCorder is an ideal tool for measuring physical and electrical parameters in application sectors such as the automotive industry, mechatronics, transport, power electronics and alternative energy. A dedicated version for the automotive industry – the DL850V Vehicle Edition – includes a module for monitoring the CAN in-vehicle serial bus.

“Since the launch of the DL750 in 2002, the ScopeCorder has become one of our most successful stand-alone instruments in North America – to the extent that the word ‘ScopeCorder’ has become a generic term in the industry for the class of product”, comments Joseph Ting, Marketing Manager for North America with Yokogawa's Test & Measurement Business Unit: “Now, with the launch of the DL850, we are not only offering greatly enhanced

performance but also, because of the product's unique features, expanding its potential market sector to include advanced electrical measurements for today's energy-saving architectures.”

Compared to earlier ScopeCorder units, the DL850 features higher-speed acquisition over a larger number of channels, the ability to carry out real-time recording, a powerful user interface, and a comprehensive range of PC interfacing capabilities for wider functionality and ease of use. With acquisition speeds up to 100 megasamples per second (MS/s), it achieves ten times the sample rate, display, and memory handling speeds as its predecessor.

A key feature for electrical measurements is the isoPRO® 1 kV isolated input module which, when combined with the 100 MS/s acquisition speed and the 12-bit resolution, makes the DL850 ideally suited to measurements on high-speed switching inverters: a core technology in today's alternative energy sector.

The DL850 ScopeCorder can accommodate up to 128 channels of assorted types including isolated, simultaneously sampled modules. For users who do not need require the highest sample rates, a new 16-channel multiplexed module or a choice of three universal voltage input modules allow speed to be traded off against higher voltage resolution, better accuracy and wider input ranges.

With its modular architecture, the DL850 ScopeCorder will handle nearly every type of electrical or physical signal. Users can arbitrarily combine fifteen unique module types, supporting direct inputs from popular sensors like thermocouples, accelerometers, strain gauges, tachometers, and more. For electrical measurements, an RMS coupled mode makes it possible to monitor and trigger off changes in RMS levels.

The DL850 incorporates a large (10.4-inch) LCD display, an internal hard disk drive, and a thermal printer. Three USB ports, an Ethernet port, an e-SATA port, a video port, a GPIB port, and a SD-card slot populate the unit's left side panel. On the right side, the DL850 has room for eight input modules.

As a diagnostic tool, the DL850 ScopeCorder offers all the measurement and analysis tools of a modern digital oscilloscope, including cursors, waveform parameter calculations, mathematics and DSP channels, fast Fourier transforms and more. In most cases, users will be able to analyze data immediately and get results with no need for offline post-processing.

Yokogawa perfected deep memory, and the ScopeCorder has its share of it: up to two billion points of data can be recorded continuously at 100 MS/s on each channel. Regardless of memory size, the ScopeCorder's GIGAZoom II® engine allows the user to smoothly zoom in and out of a signal, even while acquisition is in progress.

The unique architecture of the DL850 ScopeCorder automatically allocates its memory to best accommodate the user's test strategy. Once the desired sample rate is set, Yokogawa's exclusive 'History' feature intelligently utilizes the remainder of the available memory – allowing the user to view and save previously captured acquisitions.

Another unique function is the 'dual capture' feature, which allows both high-speed and low-speed rates to be configured. In this mode, the DL850 continuously logs data at the slow speed until a trigger condition is met. At the higher sample rate, the ScopeCorder acquires a transient waveform, with multiple waveforms for multiple triggers, all while continuously logging at the low speed rate.

Electro-mechanical systems demand a different set of measurement techniques than pure electrical systems, and the DL850 delivers higher vertical resolution, channel count, isolation, filtering, and abundant acquisition memory compared to general-purpose oscilloscopes. This makes it ideal for viewing small changes, even across large dynamic ranges, and for monitoring more signals simultaneously. It also means that there is no need for external signal conditioning components, and that high sample rates can be maintained for longer observation periods.

The DL850 ScopeCorder uses familiar oscilloscope controls, triggers, and analysis functions, so that the higher performance is achieved without additional complexity.

Yokogawa's designers originally conceived the ScopeCorder as an oscilloscope that also has the powerful advantages of a recorder including unattended operation, enabled in the DL850 by functions such as 'Action on trigger' or 'Action on stop'. The DL850 ScopeCorder can also automatically send an e-mail, print captured data, sound an alarm, and save data to a file when it detects a fault condition. Whether observation times are microseconds or months, the ScopeCorder will remain operational and save data until the user is ready for it.

The Yokogawa DL850 ScopeCorder measures 355 x 259 x 180 (mm) and weighs 6.5 kg.

Prices start from \$6,995 for the main unit and \$950 for each two-channel module.

For further information about the DL850 visit <http://tmi.yokogawa.com/>

About Yokogawa Test & Measurement

Yokogawa Test & Measurement Division is a major worldwide force in the test & measurement market, with products that include oscilloscopes, power meters, wireless and optical communications test equipment, portable test instruments, recorders and data-acquisition systems, and semiconductor-related test systems.

For more information about Yokogawa Test & Measurement, please visit the company's web site at <http://tmi.yokogawa.com/>

About Yokogawa Electric Corporation

Yokogawa's global network of 19 manufacturing facilities and 85 companies spans 40 countries. Since its founding in 1915, the US\$4 billion company has been engaged in cutting-edge research and innovation, securing more than 8,000 patents and registrations, including the world's first digital sensors for flow and pressure measurement. Industrial automation and control, test and measurement, information systems and industry support are the core businesses of Yokogawa. For more information about Yokogawa, please visit the company's web site at

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