

Yokogawa Test & Measurement Corporation
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**Yokogawa Test & Measurement Releases SL2000 High-Speed Data Acquisition Unit
- A high-performance DAQ system that meets the latest evaluation and test needs in the automotive, mechatronics, and power electronics fields –**

Yokogawa Test & Measurement Corporation announces the release today of the [SL2000 High-Speed Data Acquisition Unit](#), a ScopeCorder series product with a wide range of data logging functionalities for evaluation and test applications, including high-speed sampling and analysis. The SL2000 is a modular platform that combines the functions of a mixed signal oscilloscope and a data acquisition recorder, and is designed to capture fast signal transients and long-term trends. It is suitable for applications such as R&D, validation, and troubleshooting. The SL2000 can be used separately or in combination with the DL950 ScopeCorder, depending on the application. No other product family on the market offers this level of flexibility in handling multi-channel measurements. With the ScopeCorder product family, Yokogawa provides a multifaceted, total solution for the high-precision mechatronics and electric power markets that is contributing to the advancement and development of new technologies and applications.



SL2000 High-Speed Data Acquisition Unit

Development Background

In the four years since the DL950 ScopeCorder was first brought to the market by Yokogawa Test & Measurement, there have been many technical advances in the electric vehicle (EV), renewable energy, and other industrial fields. Today, there is an ever-greater requirement for the capability to simultaneously measure multiple parameters and for the systemization of mechatronic measurements in product development. For example, in the development of motors for industrial and EV systems, one essential test for checking and improving a product is the durability test. This test takes a long time to complete and requires a highly reliable measuring instrument and high sampling rates.

Main Features

1. Enabling both high-speed sampling and multi-channel measurement

The SL2000 performs long-duration multi-channel measurements while precisely analyzing even the most detailed aspects of waveforms. With its dual capture function, the SL2000 can perform durability tests over long periods of time at speeds of up to 200 MS/s.

By using the IS8000 integrated software platform, it is easier to perform the long-term measurements required for durability testing, helping to improve the efficiency of product design and evaluation work. In addition, isolation measurement technology ensures the noise resistance required for durability testing in harsh environments.

2. Supporting simultaneous measurement of a wide variety of devices

The SL2000 has eight available slots (with up to 32 channels), for which over 20 types of input modules are available to enable measurements of electrical signals, mechanical performance parameters indicated by sensors, and decoded vehicle serial bus signals. To increase the number of measurement channels, up to five SL2000 and DL950 units can be synchronized.

Major Target Markets

- Transportation (automotive, rail, aviation, etc.)
- Power and energy (renewable energy, smart cities/homes, data centers, etc.)
- Mechatronics, including industrial robots and motors

Applications

- Durability and reliability testing of components and vehicles that requires high sampling rates and multi-channel simultaneous measurement of analog signals and in-vehicle bus signals such as CAN and CAN FD
- Simultaneous measurement and evaluation of temperature, vibration, and other mechanical signals that change relatively slowly as well as mechatronic and other such high-speed control signals
- Electrical analysis and control signal evaluation

For More Information

<https://tmi.yokogawa.com/solutions/products/oscilloscopes/scopecorders/sl2000/>

About Yokogawa Test & Measurement

Yokogawa has been developing measurement solutions for 100 years, consistently finding new ways to give R&D teams the tools they need to gain the best insights from their measurement strategies. The company has pioneered accurate power measurement throughout its history, and is the market leader in digital power analyzers and optical spectrum analyzers.

Yokogawa measuring instruments are renowned worldwide for their high levels of precision, quality, durability, and service support.

Meet the precision makers at <https://tmi.yokogawa.com/>

About Yokogawa

Yokogawa provides advanced solutions in the areas of measurement, control, and information to customers across a broad range of industries, including energy, chemicals, materials, pharmaceuticals, and food. Yokogawa addresses customer issues regarding the optimization of production, assets, and the supply chain with the effective application of digital technologies, enabling the transition to autonomous operations.

Founded in Tokyo in 1915, Yokogawa continues to work toward a sustainable society through its 17,000+ employees in a global network of 128 companies spanning 62 countries.

For more information, please visit www.yokogawa.com/

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