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**Yokogawa Test & Measurement Releases
the IS8000 Integrated Measurement Software Platform
- Improves development efficiency through integrated measurement using multiple
instruments -**

Yokogawa Test & Measurement Corporation announces that it has developed the IS8000 integrated measurement software platform for the control of and the collection of data and generation of reports from multiple measuring instruments. The IS8000 software will be released on February 9.

The IS8000 software combines the functions of software that had previously been provided for individual measuring instruments and is able to provide total support for all measurement tasks, from the connection of instruments to the creation of reports, thus helping to improve product development efficiency. As well as enabling the operation of and collection of data from Yokogawa measuring instruments, it also supports connection to devices such as high-speed cameras from other companies. This makes it possible to integrate, synchronize, and time stamp the data collected from multiple devices.

This software can aid in the development of motors, inverters, and other types of equipment by synchronizing the measurement data from power analyzers with the multichannel analog measurement signal data from a high-speed data logger. As a total solution that will help our customers develop products more efficiently, this software will be offered together with other Yokogawa products such as power analyzers and the DL950 ScopeCorder that is also being released on February 9.

Development Background

Yokogawa has developed software for use with individual power analyzers, ScopeCorders, and other such instruments. However, in recent years, our customers' product development evaluation workflows have grown increasingly complex, leading to situations where different measurement instruments must be used together. Under these circumstances, it can be very difficult and time consuming to use separate software tools to collect and compare data from these measuring instruments.

To address this issue, Yokogawa has developed the IS8000 software. This improves efficiency by providing a single interface for the control and synchronization of measurements performed by multiple devices. This also provides a new environment for the integrated handling of fundamentally different types of data (electrical signals, images, etc.), something that previously had been difficult to accomplish.

Features

1. Use with the DL950 ScopeCorder to facilitate and enhance data analysis

The IS8000 software enhances the rich functionality of the DL950 ScopeCorder, which is being released at the same time. When installed on a PC that is connected to a DL950 ScopeCorder equipped with 10-gigabit high-speed Ethernet functionality, this software can record data at speeds of up to 10 mega-samples per second (MS/s). A user can view data on a monitor in a separate location as measurements are being taken, and also compare to the data that have been saved. This ensures that tasks such as electrical facility field testing and automobile performance evaluations that involve measurements with long timeframes and repeated measurements can be performed smoothly.

The IS800 software also makes it possible to display and compare separately acquired and recorded data on the same time axis, and up to four locations in a waveform can be specified for close-up display. This makes data analysis simpler and easier.

2. Improved visualization of correlated data through integration of measuring instruments

In addition to performing configuration, monitoring, measurement data synthesis, comparative analysis, and report output for Yokogawa ScopeCorders, power analyzers, and oscilloscopes, the IS8000 software enables synchronized measurements using other vendors' high-speed cameras for automobile development and similar activities. Use with the DL950 ScopeCorder and the WT5000 power analyzer, for example, enables high-precision time synchronization of waveform data and electrical power values. And when a ScopeCorder is linked to a high-speed camera, it is possible to synchronize electrical signal waveforms and video.

As in these examples, the correlated data from different devices can be handled as integrated data on a single software platform, making it possible to analyze complex phenomena that could not be observed otherwise.
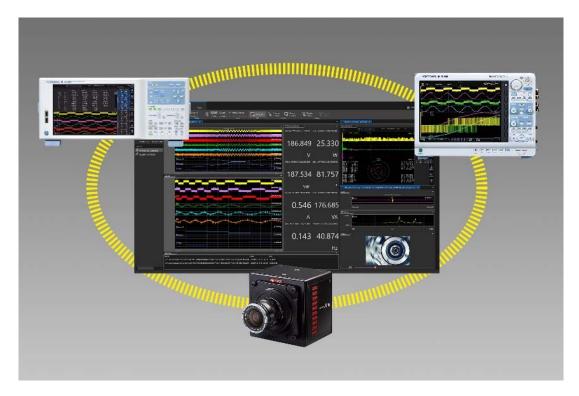
Image of IS8000 synchronized measurements with the WT5000 power analyzer, the DL950 ScopeCorder, and a high-speed camera

3. Supports the whole workflow from measurement to analysis and report output

As this software enables everything from measurement to data collection, analysis, and report output from a range of measuring instruments, it improves development efficiency by drastically reducing testing time. In addition to waveform enlargement and arithmetic operations, it can display separately measured waveform data on the same time axis. When creating reports, this measurement data can be added through a simple drag-and-drop operation.

4. Flexibility in software licensing and registration

To activate all the functions of this software, customers can either purchase a perpetual license or pay an annual subscription, giving customers a greater range of choices. Under the terms of the licensing agreement, this product can be used on up to two PCs. In cases such as when users need to replace a PC, users can go online to modify their subscriptions.

Major Target Markets
- EV and hybrid vehicles
- Electronic devices, power sources, and inverters in the power electronics industry

- Household appliances and air conditioners in the electronics industry
- Industrial devices in the mechatronics industry

Applications
- Electrical power usage efficiency testing in the product design phase and final testing phase
- Evaluation of in-vehicle LAN standard compliant bus signals and analog signals as well as synchronized measurement in car electronics
- Development and debugging of embedded device firmware
- Synchronized measurement of analog electrical signals from sensors or other devices and video from high-speed cameras
- Synchronized measurement and evaluation of high-speed signals such as those used in communications and relatively steady mechatronic system signals

About Yokogawa

Founded in 1915, Yokogawa engages in broad-ranging activities in the areas of measurement, control, and information. The industrial automation business provides vital products, services, and solutions to a diverse range of process industries including oil, chemicals, natural gas, power, iron and steel, and pulp and paper. With the life innovation business, the company aims to radically improve productivity across the pharmaceutical and food industry value chains. The test & measurement, aviation, and other businesses continue to provide essential instruments and equipment with industry-leading precision and reliability. Yokogawa co-innovates with its customers through a global network of 114 companies spanning 62 countries, generating US$3.7 billion in sales in FY2019. For more information, please visit www.yokogawa.com.