

## PRESS RELEASE

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## **Yokogawa to Launch Three New DL9000 Series Mixed-signal Oscilloscopes**

On July 26, Yokogawa Electric Corporation will release the DL9705L, DL9510L, and DL9505L, three new mixed-signal oscilloscope (MSO) models that will complement the DL9710L model released earlier this year.

The launch of these new products is in response to the growing demand for mixed-signal devices in recent years. The DL9000 seriesMSO models allow for simultaneous multi-channel monitoring of devices and electronic circuits that handle both digital and analog signals. Together with the DL9710L, these new models give users more choice, and will further expand our oscilloscope business.

### Main Specifications

Model	Digital Input	Bandwidth	Sampling rate
DL9710L (Reference)	(32 ch)	(1 GHz)	(5 GS/s)
DL9705L	32 ch	500 MHz	5 GS/s
DL9510L	16 ch	1 GHz	5 GS/s
DL9505L	16 ch	500 MHz	5 GS/s

### **Development Background**

Every year electronic products grow more sophisticated with the use of digital technologies for increased functionality and performance. The devices and electronic circuits in these products need to perform analog-to-digital and digital-to-analog signal conversion. This is fueling the demand for a digital oscilloscope that offers simultaneous multi-channel monitoring and evaluation of mixed-signal devices and electronic circuits.

In response to these needs, we launched the DL9710L MSO in February. The DL9710L can simultaneously monitor 32 digital and 4 analog input channels, and features a 5 GS/s (giga-sampling/sec) sampling speed and 1 GHz bandwidth, making it suitable for a wide range of applications.

However, some users do not need such a large bandwidth or so many logic input channels. We have therefore enhanced our lineup with these three new models, allowing users to choose the most appropriate model for each application.

## **Product Features**

### Simultaneous Multi-channel Monitoring of Digital and Analog Signals

With the new DL9000 series MSO models, users can simultaneously monitor 16 or 32 digital signal channels as well as 4 analog signal channels. This feature allows increased efficiency during the development and evaluation phases for mixed-signal devices and electronic circuits.

### Reliable Acquisition and Verification of High-speed Signals

The DL9000 series models can accurately capture high-speed signals at the high sampling rate of 5 GS/s. The captured signals can be saved to history memory, and users can easily redisplay the saved signals without having to make special settings. This function allows users to individually verify captured signals and the relationship between channels if an abnormal signal occurs.

### Easy-to-view Display

The DL9000 series models vary the display of captured signals according to their occurrence frequency utilizing an advanced data stream engine (ADSE), which is a Yokogawa-developed signal processing IC. With this capability, users can quickly determine the frequency of noise, fluctuations, and other abnormalities by viewing the display: high-frequency events are indicated with a thick line and low-frequency events with a thin line.

### Major Target Markets

Manufacturers of information appliances and AV equipment such as digital cameras and portable music players, PC peripherals such as printers and scanners, automotive electronic components, semiconductors, and other electronic device-related products

### Applications

Design and evaluation of electronic circuits

Communication bus data evaluation and troubleshooting

Control signal monitoring and control firmware debugging for microprocessors and the like

## **About Yokogawa**

Yokogawa's global network of 18 manufacturing facilities, 80 companies, and over 650 sales and engineering offices spans 30 countries. Since its founding in 1915, the US\$4 billion company has been engaged in cutting-edge research and innovation, securing more than 7,000 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 our web site at [www.yokogawa.com](http://www.yokogawa.com).