

# Mixed Signal Oscilloscope DLM2000 Series

## DLM2000

In recent years, digitization and shifting to embedded systems are progressing in every product such as digital home appliances, automobiles, and industrial machinery. To inspect such products and analyze their performance, there is a growing need for oscilloscopes to measure simultaneously both analog and digital signals.

To meet this demand, Yokogawa has released the DLM2000 series entry model Mixed Signal Oscilloscope. In addition to improving on the key performance of the best-selling mid-range oscilloscope of the DL1000 series while inheriting its compact, lightweight, and inexpensive features, it offers logic input by using the flexible Mixed Signal Oscilloscope (MSO) input, a new input style that can switch an analog channel to an 8-bit logic channel.



### FEATURES

- Flexible MSO Input  
By switching the fourth analog input channel to an 8-bit logic channel, the DLM2000 series functions as a 3 ch analog plus 8-bit logic Mixed Signal Oscilloscope.
- Large 8.4-inch color LCD display  
A large 8.4-inch XGA (1024 × 768) display clearly shows multichannel signals.
- Long memory of up to 125 M points  
The largest long memory in the class (with option /M2) can record the waveform of 10 kHz for up to 5,000 seconds. It can capture waveforms of up to 0.1 second even at the sampling rate of 1.25 GS/s.
- Various serial bus analyses  
Various serial buses can be analyzed with appropriate options.

FlexRay/CAN/LIN/UART/I<sup>2</sup>C/SPI

- Intuitive operability  
Intuitive operability is achieved by using dedicated knobs for horizontal/vertical positioning and trigger level adjusting, and several icons in the menu.

### SPECIFICATION

- Input channels: 2 or 4/3 + 8
- Voltage axis sensitivity setting range  
1 M $\Omega$ : 2 mV - 10 V/div (steps of 1-2-5)  
50  $\Omega$ : 2 mV - 500 mV/div (steps of 1-2-5)
- Frequency characteristics  
DLM202X: 200 MHz  
DLM203X: 350 MHz  
DLM205X: 500 MHz
- Bandwidth limit  
FULL, 200 MHz, 100 MHz, 20 MHz, 10 MHz,  
5 MHz, 2 MHz, 1 MHz, 500 kHz, 250 kHz,  
125 kHz, 62.5 kHz, 32 kHz, 16 kHz, 8 kHz
- Maximum sample rate  
Interleave OFF: 1.25 GS/s  
Interleave ON: 2.5 GS/s
- Maximum record length  
Repeat: Single/Single Interleave  
Standard: 1.25 M/6.25 M/12.5 M points  
M1: 6.25 M/25 M/62.5 M points  
M2: 12.5 M/62.5 M/125 M points
- Logic signal input (4ch model only)  
Number of input bits: 8-bit  
Maximum toggle frequency: 100 MHz (model 701988)  
250 MHz (model 701989)
- Communication interface: USB, GP-IB (option)  
Ethernet (option)
- Dimensions: 226 (W) × 293 (H) × 193 (D) mm
- Weight: Approx. 4.2 kg (with no options)

Contact us

To Yokogawa Japan:

<https://y-link.yokogawa.com/YL000.po>

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