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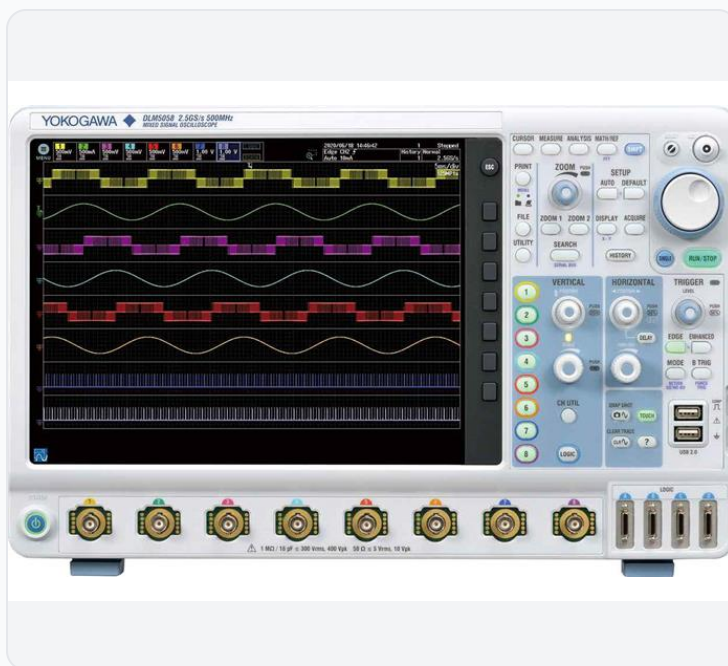
Data Sheet

August 13, 2026

YOKOGAWA

Yokogawa DLM5038 350MHz Mixed Signal Oscilloscope

The Yokogawa DLM5038 is a 350 MHz DLM5000 mixed-signal oscilloscope with 8 analog for embedded, power electronics, and mechatronics debug. It combines long-memory analog capture at up to 2.5 GS/s with optional logic analysis, serial-bus decode options, and power-analysis packages. Mixed analog and digital embedded system validation; power electronics switching and timing debug; serial bus trigger and decode with optional /Fxx packages; long-record intermittent fault capture; automotive and industrial control troubleshooting. Display: 12.1-inch XGA capacitive touch TFT Residual Noise: 0.2 mV rms or 0.05 div rms typical History Memory: up to 20,000 waveforms standard (/M2 or /M2S up to 100,000 on DLM5000) Specs from Yokogawa DLM5000 datasheet (DLM5038). Memory lengths depend on /M1, /M2, or /M3 options and channel/interleave mode; confirm installed options on the unit.



MODEL

**Yokogawa
DLM5038**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

DLM5038

LISTING

<https://aumictechlabs.com/products/dlm5038-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Yokogawa DLM5038 is a mixed-signal oscilloscope combining 350 MHz analog bandwidth with 32-bit logic channels for simultaneous capture and analysis of analog and digital signals. Built for embedded systems, power electronics, and automotive development, it delivers 12-bit

vertical resolution (16-bit in High Resolution Mode), 2.5 GS/s sampling, and up to 125 Mpoints standard record length. The instrument supports eight analog input channels plus configurable logic inputs, dual impedance paths (1 M Ω and 50 Ω), and extensive trigger capabilities including edge, pattern, runt, pulse width, and protocol-specific detection. A 12.1-inch XGA touchscreen display, 100,000-waveform history memory, and integrated serial bus analysis for UART, I2C, SPI, CAN, CAN FD, LIN, and FlexRay enable efficient multi-domain troubleshooting. Vertical sensitivity ranges from 500 μ V/div to 10 V/div on 1 M Ω input and 500 μ V/div to 1 V/div on 50 Ω input. Sweep timing spans 1 ns/div to 500 s/div with selectable bandwidth limiting from 8 kHz to 200 MHz. The DLMsync feature extends analog channel count to 16 through multi-unit synchronization, while 29 automated measurement functions support cycle-by-cycle parameter extraction. Maximum input handling reaches 300 Vrms (1 M Ω) or 5 Vrms (50 Ω). Optional enhancements include 1 Gpoints record length, 64 GB internal storage, and protocol-specific triggers for SENT, CXPI, PSI5 Airbag, and FlexRay applications.

Features & description

From manufacturer datasheet

Features

- 350 MHz analog bandwidth, 8 channel configuration

DLM5038 Characteristics / Specifications

PARAMETER	VALUE
Model	DLM5038
Manufacturer	Yokogawa
Instrument Type	Mixed Signal Oscilloscope
Series	DLM5000
Analog Channels	8 analog
Bandwidth	350 MHz
Max Sample Rate Real Time	2.5 GS/s
Max Sample Rate Interleave Off	1.25 GS/s
Max Sample Rate Repetitive	250 GS/s
A/D Resolution	8 bit (25 LSB/div); max 12 bit High Resolution mode
Logic Inputs	16 bit standard (/L32 optional 32 bit)
Vertical Sensitivity 1 MOhm	500 uV/div to 10 V/div (200 MHz models); scales with bandwidth
Vertical Sensitivity 50 Ohm	500 uV/div to 1 V/div
Input Coupling	AC 1 MOhm; DC 1 MOhm; DC 50 Ohm
Input Impedance	1 MOhm +/-1.0%; 50 Ohm +/-1.0%
Max Input Voltage 1 MOhm	300 Vrms or 400 Vpeak
Max Input Voltage 50 Ohm	5 Vrms or 10 Vpeak
Timebase Range	1 ns/div to 500 s/div
Timebase Accuracy	+/-2.5 ppm (shipping); +/-1.0 ppm/year ageing
Record Length Standard Repeat	12.5 M
Record Length Standard Single	50 M points
Record Length Option Max	500 M points (/M2S)
Bandwidth Limit Filters	FULL plus 200 MHz down to 8 kHz (14 settings per channel)
Display	12.1-inch XGA capacitive touch TFT
Ch to Ch Isolation	-34 dB typical

PARAMETER	VALUE
Residual Noise	0.2 mV rms or 0.05 div rms typical
Logic Max Sample Rate	1.25 GS/s
History Memory	up to 20,000 waveforms standard (/M2 or /M2S up to 100,000 on DLM5000)
Alias	DLM5038 Notes Specs from Yokogawa DLM5000 datasheet (DLM5038). Memory lengths depend on /M1, /M2, or /M3 options and channel/interleave mode; confirm installed options on the unit.
Optional serial buses	UART/I2C/SPI, CAN/CAN FD/LIN, FlexRay, SENT, CXPI, PSI5

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Instrument Type	Mixed Signal Oscilloscope
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Series	DLM5000
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PARAMETER	VALUE
Max Sample Rate Real Time	2.5 GS/s
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Logic Inputs	16 bit standard (/L32 optional 32 bit)
Vertical Sensitivity 1 MOhm	500 uV/div to 10 V/div (200 MHz models); scales with bandwidth
Specifications	
PARAMETER	VALUE
Vertical Sensitivity 50 Ohm	500 uV/div to 1 V/div
Input Coupling	AC 1 MOhm; DC 1 MOhm; DC 50 Ohm
Input Impedance	1 MOhm +/-1.0%; 50 Ohm +/-1.0%

Specifications

PARAMETER	VALUE
Max Input Voltage 1 MOhm	300 Vrms or 400 Vpeak
Max Input Voltage 50 Ohm	5 Vrms or 10 Vpeak
Timebase Range	1 ns/div to 500 s/div

Specifications

PARAMETER	VALUE
Timebase Accuracy	+/-2.5 ppm (shipping); +/-1.0 ppm/year ageing
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Specifications

PARAMETER	VALUE
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Display	12.1-inch XGA capacitive touch TFT

Specifications

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Ch to Ch Isolation	-34 dB typical
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History Memory: up to 20,000 waveforms standard (/M2 or /M2S up to 100,000 on DLM5000)

Alias: DLM5038

Notes

Specs from Yokogawa DLM5000 datasheet (DLM5038). Memory lengths depend on /M1, /M2, or /M3 options and channel/interleave mode; confirm installed options on the unit.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.