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Data Sheet

August 13, 2026

YOKOGAWA

Yokogawa DLM3052 500MHz Mixed Signal Oscilloscope

Yokogawa DLM3052 500 Digital Oscilloscope The Yokogawa DLM3052 is a 500 MHz DLM3000 mixed-signal oscilloscope with 2 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. The Yokogawa DLM3052 is a 500 MHz DLM3000 mixed-signal oscilloscope with 2 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.



MODEL

**Yokogawa
DLM3052**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

DLM3052

LISTING

<https://aumictechlabs.com/products/dlm3052-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Yokogawa DLM3052 is a 500 MHz mixed-signal oscilloscope engineered for mechatronic design and troubleshooting workflows. It combines dual analog channels with selectable 8-bit logic input, sampling to 2.5 GS/s, and memory depths up to 500 MegaPoints. The touchscreen interface, solid-state storage option, and integrated serial bus analysis streamline signal acquisition and parameter extraction across automotive and industrial applications.

Technical Specifications

Bandwidth and Acquisition Bandwidth: 500 MHz Analog channels: 2 Digital input: Selectable 8-bit logic Sampling rate: Up to 2.5 GS/s Memory depth: 12.5 Mpoints (standard repeating) to 500 MegaPoints (extended) Waveform history: Up to 100,000 triggers Vertical System Sensitivity: 500 $\mu\text{V}/\text{div}$ to maximum setting Vertical resolution: 8-bit (up to 12-bit high-resolution mode) Input coupling: AC 1 M Ω , DC 1 M Ω , DC 50 Ω Noise reduction: 14 real-time low-pass filters per channel (8 kHz to 200 MHz) Triggering and Analysis Trigger types: Edge, Enhanced, B triggers; serial pattern triggering (up to 128-bit user-defined patterns) A to B(n) triggering for sequence-based capture GO/NO-GO determination for automated pass/fail assessment 29 included waveform parameter measurements; simultaneous measurement of up to 30 parameters Serial Bus Capability Simultaneous analysis on up to four different serial buses Support for CAN, CAN FD, LIN, SENT, CXPI, and PSI5 Airbag protocols

Key Features Touchscreen operation for intuitive control and fast setup Auto Setup function analyzes input signals and optimizes acquisition parameters including bit rate and threshold Cycle-by-cycle parameter measurement for fluctuation analysis Wave Zone thumbnail browser for saved waveforms and images Optional 60 GB internal SSD for onboard data storage

Interfaces and Connectivity Gigabit Ethernet and USB 3.0 (standard) Optional solid-state storage

Typical Applications Mixed-signal troubleshooting in automotive electronics, industrial control systems, and embedded design validation requiring synchronous analog and logic capture with multi-protocol serial bus decoding.

Features & description

From manufacturer datasheet

Features

- 500 MHz analog bandwidth, 2 channel configuration

DLM3052 Characteristics / Specifications

PARAMETER	VALUE
Model	DLM3052
Manufacturer	Yokogawa
Instrument Type	Mixed Signal Oscilloscope
Series	DLM3000
Analog Channels	2 analog
Bandwidth	500 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	None
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 (/M3)
Bandwidth Limit Filters	FULL plus 200 MHz down to 8 kHz (14 settings per channel)
Display	8.4-inch capacitive touch TFT
Ch to Ch Isolation	-34 dB typical

PARAMETER	VALUE
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)
Alias	DLM3052 Notes Specs from Yokogawa DLM3000 datasheet (DLM3052). 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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PARAMETER	VALUE
Model	DLM3052
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Instrument Type	Mixed Signal Oscilloscope
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PARAMETER	VALUE
Series	DLM3000
Analog Channels	2 analog
Bandwidth	500 MHz
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PARAMETER	VALUE
Max Sample Rate Real Time	2.5 GS/s
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A/D Resolution	8 bit (25 LSB/div); max 12 bit High Resolution mode
Logic Inputs	None
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
Record Length Standard Repeat	12.5 M
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Specifications

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Record Length Option Max	500 M points (/M3)
Bandwidth Limit Filters	FULL plus 200 MHz down to 8 kHz (14 settings per channel)
Display	8.4-inch capacitive touch TFT

Specifications

PARAMETER	VALUE
Ch to Ch Isolation	-34 dB typical
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)

Alias: DLM3052

Notes

Specs from Yokogawa DLM3000 datasheet (DLM3052). 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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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.