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Data Sheet

August 13, 2026

YOKOGAWA

Yokogawa DLM2052 500MHz Mixed Signal Oscilloscope

Yokogawa DLM2052 500 Digital Oscilloscope The Yokogawa DLM2052 is a 500 MHz DLM2000 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 DLM2052 is a 500 MHz DLM2000 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
DLM2052**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

DLM2052

LISTING

<https://aumictechlabs.com/products/dlm2052-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Yokogawa DLM2052 is a 500 MHz mixed-signal oscilloscope engineered for simultaneous analog and digital signal acquisition in embedded systems development, validation, and debugging workflows. This 2-channel instrument delivers 2.5 GS/s sampling performance with up to 250 Mpoints of waveform memory, supporting long-duration captures and historical waveform analysis. Optional 8-bit logic input converts the instrument into a full mixed-signal platform, enabling observation of up to 11 concurrent signals - 3 analog channels plus 8 logic inputs. The 8.4-inch XGA display (1024 × 768) provides intuitive waveform visualization across compact bench footprint measuring 226 mm × 293 mm × 193 mm.

Technical Specifications
Bandwidth: 500 MHz
Analog Channels: 2
Sampling Rate: 2.5 GS/s (single/dual channel); 1.25 GS/s (quad channel)
Memory Depth: 62.5 Mpoints standard; 125 Mpoints (/M2 option); 250 Mpoints (/M3 option)
Vertical Sensitivity: 2 mV to 10 V/div (1-2-5 sequence); 50 Ω input: 2 mV to 500 mV/div
Input Impedance: 1 MΩ (≈1.1 pF) or 50 Ω
Trigger Sensitivity: 0.1 Vp-p (±1 V range)
Trigger Level Range: ±2 V
Display: 8.4-inch LCD, XGA (1024 × 768)
Supply Voltage: 100–240 VAC, 50/60 Hz
Power Consumption: 170 VA maximum
Operating Temperature: 5 °C to 40 °C
Weight: 4.2 kg (without options)

Key Features
Mixed-Signal Architecture: Optional 8-bit logic input enables simultaneous analog-digital observation for protocol debugging and system-level validation
Extended Waveform Capture: 5,000 seconds maximum capture duration at 10 kHz; 20,000 waveform history storage with search and scrolling capabilities
Serial Bus Decode: Supports CAN, LIN, UART, I2C, and SPI protocol analysis with optional decoders
Automated Measurements: 29 embedded waveform parameters for rapid characterization

Typical Applications
Embedded systems development and debugging
Serial protocol validation (I2C, SPI, CAN, UART, LIN)
Mixed-signal circuit characterization
Long-duration signal event capture and analysis

Compatibility & Integration
USB 2.0: USBTMC-USB488 compliant Type B connector
Ethernet: 1000BASE-T/100BASE-TX/10BASE-T (RJ-45); VXI-11 server, FTP/SMTP/SNTP/LPR client support
IEEE 488: Available

Features & description

From manufacturer datasheet

Features

- 500 MHz analog bandwidth, 2 channel configuration

DLM2052 Characteristics / Specifications

PARAMETER	VALUE
Model	DLM2052
Manufacturer	Yokogawa
Instrument Type	Mixed Signal Oscilloscope
Series	DLM2000
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	125 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	6.25 M
Record Length Standard Single	25 M points
Record Length Option Max	250 M points (/M3)
Bandwidth Limit Filters	FULL plus 200 MHz down to 8 kHz (14 settings per channel)
Display	8.4-inch LCD
Ch to Ch Isolation	-34 dB typical

PARAMETER	VALUE
Residual Noise	0.4 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	DLM2052 Notes Specs from Yokogawa DLM2000 datasheet (DLM2052). 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	DLM2052
Manufacturer	Yokogawa
Instrument Type	Mixed Signal Oscilloscope
Specifications	
PARAMETER	VALUE
Series	DLM2000
Analog Channels	2 analog
Bandwidth	500 MHz
Specifications	
PARAMETER	VALUE
Max Sample Rate Real Time	2.5 GS/s
Max Sample Rate Interleave Off	1.25 GS/s
Max Sample Rate Repetitive	125 GS/s
Specifications	
PARAMETER	VALUE
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	6.25 M
Record Length Standard Single	25 M points

Specifications

PARAMETER	VALUE
Record Length Option Max	250 M points (/M3)
Bandwidth Limit Filters	FULL plus 200 MHz down to 8 kHz (14 settings per channel)
Display	8.4-inch LCD

Specifications

PARAMETER	VALUE
Ch to Ch Isolation	-34 dB typical
Residual Noise	0.4 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: DLM2052

Notes

Specs from Yokogawa DLM2000 datasheet (DLM2052). 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 ·
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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.