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Data Sheet

August 13, 2026

YOKOGAWA

Yokogawa DLM2054 500MHz Mixed Signal Oscilloscope

The Yokogawa DLM2054 is a 500 MHz DLM2000 mixed-signal oscilloscope with 4 analog or 3 analog + 8 bit logic 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. Bandwidth Limit Filters: FULL plus 200 MHz down to 8 kHz (14 settings per channel) 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) Specs from Yokogawa DLM2000 datasheet (DLM2054). Memory lengths depend on /M1, /M2, or /M3 options and channel/interleave mode; confirm installed options on the unit.



MODEL

**Yokogawa
DLM2054**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

DLM2054

LISTING

<https://aumictechlabs.com/products/dlm2054-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Yokogawa DLM2054 is a 500 MHz mixed-signal oscilloscope engineered for electronic design and debugging of complex integrated analog and digital systems. It delivers four analog

channels or three analog channels plus an eight-bit logic analyzer, with simultaneous capture and analysis of both signal types. The 8.4-inch LCD display in portrait orientation maximizes bench space while maintaining excellent visibility. Sampling reaches 2.5 GS/s with interleave enabled, and memory depths up to 250 M points support extended waveform capture with optional modules.

Technical Specifications

Bandwidth: 500 MHz

Analog channels: 4 (or 3 analog + 8-bit logic analyzer)

Digital channels: 8 bits (MSO configuration)

Maximum sampling rate: 2.5 GS/s (interleave ON); 1.25 GS/s (4-channel or interleave OFF)

DC accuracy: $\pm(1.5\% \text{ of } 8 \text{ div} + \text{offset voltage accuracy})$

Memory depth: 62.5 M points (standard); 125 M points (/M2 option); 250 M points (/M3 option)

Vertical resolution: 5 mV ($\pm 1 \text{ V}$ and $\pm 10 \text{ V}$ ranges)

Input impedance: $1 \text{ M}\Omega$ || approx. 15 pF or $50 \text{ }\Omega$

Maximum input voltage: $\pm 400 \text{ V}$ (10:1 probe); $\pm 4 \text{ V}$ (1:1 probe)

Trigger level accuracy: $\pm 2 \text{ V}$

Input coupling: AC, DC, GND

Rated supply voltage: 100–240 VAC

Key Features

Flexible channel configuration: switch the fourth input between analog or digital logic analysis

Portrait-format display: reduces footprint to approximately two-thirds the size of standard 8.5×11 paper, with 8-inch depth

Serial protocol decoding across analog and digital domains

Trigger signal output (CMOS 3.3 V level)

Power supply output terminal for current probes (701930, 701931) and differential probes (701920, 701921, 701922, 700924, 700925, 701926)

Compatibility & Integration

USB 2.0: USBTMC-USB488 compliant; supports high-speed and full-speed transfers, USB storage, keyboards, and printers

Ethernet (optional /C10 and /C11): 1000BASE-T/100BASE-TX/10BASE-T via RJ-45; FTP, HTTP, VXI-11 server and FTP, SMTP, SNMP client services

Features & description

From manufacturer datasheet

Features

- 500 MHz analog bandwidth, 4 channel configuration

DLM2054 Characteristics / Specifications

PARAMETER	VALUE
Model	DLM2054
Manufacturer	Yokogawa
Instrument Type	Mixed Signal Oscilloscope
Series	DLM2000
Analog Channels	4 analog or 3 analog + 8 bit logic
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	8 bit (switchable on CH4)
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
Logic Max Sample Rate	625 MS/s
History Memory	up to 20,000 waveforms standard (/M2 or /M2S up to 100,000 on DLM5000)
Alias	DLM2054 Notes Specs from Yokogawa DLM2000 datasheet (DLM2054). 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	
Specifications	
PARAMETER	VALUE
Model	DLM2054
Manufacturer	Yokogawa
Instrument Type	Mixed Signal Oscilloscope
Specifications	
PARAMETER	VALUE
Series	DLM2000
Analog Channels	4 analog or 3 analog + 8 bit logic
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	8 bit (switchable on CH4)
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
Logic Max Sample Rate	625 MS/s

History Memory: up to 20,000 waveforms standard (/M2 or /M2S up to 100,000 on DLM5000)

Alias: DLM2054

Notes

Specs from Yokogawa DLM2000 datasheet (DLM2054). 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.