

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

YOKOGAWA

Yokogawa DLM3024 200MHz Mixed Signal Oscilloscope

The Yokogawa DLM3024 is a 200 MHz DLM3000 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: 0.2 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 DLM3000 datasheet (DLM3024). Memory lengths depend on /M1, /M2, or /M3 options and channel/interleave mode; confirm installed options on the unit.



MODEL

**Yokogawa
DLM3024**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

DLM3024

LISTING

<https://aumictechlabs.com/products/dlm3024-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Yokogawa DLM3024 is a 200 MHz mixed-signal oscilloscope purpose-built for electronic circuit design, testing, and debugging. It delivers four analog channels plus selectable 8-bit digital

input on channel 4, enabling true 11-channel mixed-signal analysis. The instrument combines a large 8.4-inch TFT color touchscreen, deep memory architecture, completely digital triggering, and a redesigned analog front-end to capture complex signal interactions with high fidelity and minimal noise.

Technical Specifications

Acquisition & Display Bandwidth: 200 MHz Sampling Rate: Maximum 2.5 GS/s Record Length: 12.5 Mpts (repeating) or 125 Mpts (single interleave); optional up to 50 Mpts or 500 Mpts Display: 8.4-inch XGA TFT (1024 × 768) with split-channel capability and portrait orientation

Input Channels & Sensitivity Four analog channels with 8-bit logic analyzer capability on channel 4 Input Impedance: 1 MΩ ±1.0% (~20 pF) or 50 Ω ±1.5% (DC to 500 MHz) Input Coupling: AC, DC, DC50 Ω, GND Voltage Sensitivity: 1 MΩ (2 mV/div to 5 V/div); 50 Ω (2 mV/div to 500 mV/div) Lower Sensitivity: Down to 500 μV/div DC Accuracy: 1.5% of 8 div + offset voltage accuracy

Triggering & Analysis Completely digital triggering with improved timing jitter and vertical level accuracy Trigger Modes: Edge (Rise/Fall/Both), Edge OR, Pattern, Pulse Width, Rise/Fall Time, Runt, Timeout, Window (upper/lower), Window OR, Interval, Serial (user-defined to 128 bits), TV (NTSC/PAL/SDTV/HDTV/user-defined), A Delay B, A to B(n) 29 standard waveform parameter measurements; simultaneous measurement of up to 30 parameters Dual Zoom processor and Zoom Search function for edge, pattern, pulse width, and timeout location FFT Spectral Analysis: Up to 2 simultaneous functions GO/NO-GO automated pass/fail determination History memory for cycle-by-cycle parameter tracking

Signal Conditioning 14 real-time low-pass filters (8 kHz to 200 MHz) applied before memory storage Redesigned analog front-end for reduced residual noise

Key Features Split display for full-resolution individual channel waveforms Serial Bus Analysis (optional) with proprietary auto-setup Power Supply Analysis (optional): Switching loss, I_2t , SOA, harmonic analysis Gigabit Ethernet interface

Typical Applications Power supply characterization, automotive bus decode and analysis, serial protocol debugging, RF circuit design, signal integrity validation, and multi-channel signal correlation.

Features & description

From manufacturer datasheet

Features

- 200 MHz analog bandwidth, 4 channel configuration

DLM3024 Characteristics / Specifications

PARAMETER	VALUE
Model	DLM3024
Manufacturer	Yokogawa
Instrument Type	Mixed Signal Oscilloscope
Series	DLM3000
Analog Channels	4 analog or 3 analog + 8 bit logic
Bandwidth	200 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	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	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
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	DLM3024 Notes Specs from Yokogawa DLM3000 datasheet (DLM3024). 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	DLM3024
Manufacturer	Yokogawa
Instrument Type	Mixed Signal Oscilloscope
Specifications	
PARAMETER	VALUE
Series	DLM3000
Analog Channels	4 analog or 3 analog + 8 bit logic
Bandwidth	200 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	250 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	12.5 M
Record Length Standard Single	50 M points

Specifications

PARAMETER	VALUE
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
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: DLM3024

Notes

Specs from Yokogawa DLM3000 datasheet (DLM3024). 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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 13, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.