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Data Sheet

August 31, 2026

YOKOGAWA

Yokogawa DL1740 Digital Oscilloscope, 4-Channel, 500MHz

The Yokogawa DL1740 is a digital oscilloscope in the DL1700 family with 500 MHz analog bandwidth and up to 1 GS/s class sampling for higher-speed digital and RF front-end work. OEM DL1740 literature lists four-channel operation, long memory, and advanced analysis features of the DL1700 platform. High-speed digital debug, pulse integrity, and 500 MHz class analog timing measurements. Maximum Sample Rate Class: 1 GS/s family class Input Impedance Class: 1 MOhm / 50 ohm selectable class Record Length Class: long memory family options Probe Interface Class: Yokogawa probe compatible Acquisition Modes Class: normal average envelope peak Sibling Family Bandwidth Span: 500 MHz class DL1740

Yokogawa DL1740 Digital Oscilloscope, 4-Channel, 500MHz

MODEL

Yokogawa DL1740

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

DL1740

LISTING

<https://aumictechlabs.com/products/dl1740-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Yokogawa DL1740 is a 4-channel digital oscilloscope delivering 500 MHz bandwidth with real-time sampling up to 1 GS/s (with 2-channel interleaving) or 500 MS/s standard operation. Deep memory - 1 MW per channel with interleaving, 500 kWord without - captures extended signal sequences for transient analysis and detailed waveform characterization. Dual input impedance (1 MΩ and 50 Ω) with switchable bandwidth limiting (100 MHz or 20 MHz per channel) accommodates diverse measurement scenarios. The 6.4-inch color TFT display refreshes up to 60

screens/s in all-points mode, enabling real-time signal observation. Comprehensive connectivity includes USB, Ethernet (optional), GP-IB, RS-232 serial (optional), SCSI (optional), and external trigger/clock inputs, supporting seamless laboratory integration and remote control.

Technical Specifications
Bandwidth: 500 MHz
Channels: 4 analog
Real-Time Sampling Rate: 1 GS/s (2-channel interleaving); 500 MS/s (standard)
Record Length: 1 MW per channel (interleaving enabled); 500 kWord per channel (interleaving disabled)
Input Impedance: 1 M Ω $\pm$ 1.0% or 50 Ω $\pm$ 1.0% (selectable)
Vertical Sensitivity: 50 Ω : 2 mV to 1 V/div; 1 M Ω : 2 mV to 10 V/div (1, 2, 5 mV steps)
Maximum Input Voltage: 1 M Ω input ($\leq$ 1 kHz): 400 V DC+AC peak / 282 Vrms CAT II; 50 Ω input: 5 Vrms max, 10 Vpeak max
Input Coupling: AC, DC (1 M Ω), DC (50 Ω), GND
Input Filter: 100 MHz or 20 MHz bandwidth limiting per channel
Sweep Time: 1 ns to 50 s/div (10 kWord+ record length)
Timebase Accuracy: $\pm$ 0.005%
A/D Conversion: 8-bit resolution
DC Accuracy: $\pm$ (1.5% of 8 divisions + voltage-axis offset error)
External Clock: 40 Hz to 20 MHz input capability

Key Features
Dual-impedance front end (1 M Ω / 50 Ω) for matched source coupling
Per-channel bandwidth limiting reduces noise in narrowband measurements
High-speed interleave mode doubles effective sampling rate on two channels
Deep waveform memory supports long-duration captures without resampling
Trigger output (TTL) and external trigger/clock/gate inputs for instrument synchronization

Display & Connectivity
6.4-inch color TFT LCD; 640 $\times$ 480 full resolution, 500 $\times$ 384 waveform display
Screen refresh: 60 screens/s (10 kWord all-points); 30 screens/s (1 MW all-points)
USB 1.0, Ethernet (10BASE-T / 100BASE-TX, optional), GP-IB, RS-232 (optional), SCSI (optional)
Floppy disk, Zip drive, PC Card Type II (optional), USB storage, RGB video output

Typical Applications
High-speed digital and analog circuit characterization
Power supply transient and ripple analysis
Protocol signal capture and timing validation
Long-duration environmental monitoring and logging

DL1740 Characteristics / Specifications

PARAMETER	VALUE
Analog Bandwidth	500 MHz
Analog Channels Class	up to 4
Maximum Sample Rate Class	1 GS/s family class
Vertical Resolution Class	8 bit
Input Impedance Class	1 MOhm / 50 ohm selectable class
Input Coupling	AC DC GND
Time Base Class	ns/div to s/div
Display	color LCD class
Trigger Modes Class	edge pulse width pattern
Cursor Measurements	voltage and time
Automatic Measurements Class	rise fall period frequency
Record Length Class	long memory family options
Remote Interface Class	GPIB
Probe Interface Class	Yokogawa probe compatible
Vertical Scale Class	mV/div to V/div
Acquisition Modes Class	normal average envelope peak
Form Factor	benchtop
Series Family	Yokogawa DL1700
Power	AC mains
Operating Temperature Class	laboratory
Sibling Family Bandwidth Span	500 MHz class DL1740
Calibration Interval Class	annual recommended
Bandwidth	500 MHz
Operating temperature	Class: laboratory

DL1740 Specifications

PARAMETER	VALUE
Yokogawa DL1740 Digital Oscilloscope	Overview
Applications	High-speed digital debug, pulse integrity, and 500 MHz class analog timing measurements.
Key Features	500 MHz bandwidth class
Technical Specifications	Analog Bandwidth: 500 MHz

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: laboratory
Operating Temperature	Class: laboratory
Operating Temperature Class	laboratory
Sibling Family Bandwidth Span	500 MHz class DL1740
Calibration Interval Class	annual recommended Notes From Yokogawa DL1740 / DL1700 family product literature and manuals. Confirm installed options and exact sample-rate interleave behavior on the unit under test.

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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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.