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Data Sheet

August 31, 2026

LECROY

LeCroy LT344 Waverunner Digital Storage Oscilloscope, 500MHz, 500MS/s, 4 Channel

LeCroy LT344 Waverunner Digital Oscilloscope The LeCroy LT344 is a 4-channel 500 MHz Waverunner digital oscilloscope with 500 MS/s single-shot sample rate and 250 kpts per channel standard memory. OEM LT342/LT344 literature lists 25 GS/s equivalent-time sampling for repetitive signals and analog persistence. 500 MHz four-channel analog debug, repetitive signal analysis with equivalent-time sampling, and benchtop timing measurements. Bandwidth: 500 MHz at 50 Ohm and probe tip with PP006 The LeCroy LT344 is a 4-channel 500 MHz Waverunner digital oscilloscope with 500 MS/s single-shot sample rate and 250 kpts per channel standard memory. OEM LT342/LT344 literature lists 25 GS/s equivalent-time sampling for repetitive signals and analog persistence. 500 MHz four-channel analog debug, repetitive signal analysis with equivalent-time sampling, and benchtop timing measurements. Bandwidth: 500 MHz at 50 Ohm and probe tip with PP006 Bandwidth Limiters: 25 MHz or 200 MHz selectable per channel



MODEL

Lecroy LT344

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

LT344

LISTING

<https://aumictechlabs.com/products/lt344-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The LeCroy LT344 Waverunner is a 4-channel digital storage oscilloscope delivering 500 MHz bandwidth and 500 MS/s sample rate for high-frequency signal acquisition and analysis. The

instrument captures up to 250 kpts per channel with 16-bit vertical resolution, enabling detailed waveform characterization across DC to 500 MHz signals. An 8.4-inch color TFT-LCD display (640 × 480 VGA resolution) presents waveforms, measurements, and analysis results with Analog Persistence visualization and color-graded persistence modes.

Technical Specifications

Acquisition Capabilities

Bandwidth: 500 MHz (-3 dB) at 50 Ω and probe tip Channels: 4 independent Sample Rate: 500 MS/s Acquisition Memory: 250 kpts per channel Vertical Resolution: 16 bits per data point Bandwidth Limiters: Selectable 25 MHz or 200 MHz per channel Input Impedance: 50 $\Omega \pm 1.0\%$ or 1 M $\Omega \pm 1.0\%$ // 16 pF typical Input Coupling (1 M Ω): AC, DC, GND Triggering and Timing SMART Trigger: Icon-driven control for edges, timing intervals, TV formats, glitches down to 2 ns, signal dropouts, and window-based triggering with exclusion logic Trigger Modes: Normal, Auto, Single, Stop Trigger Sources: Any input channel, external, Ext/10, or line Pre-Trigger Recording: 0–100% of horizontal time scale Post-Trigger Delay: 0–10,000 divisions Holdoff: By Time (up to 20 s) or Events (1 to 99,999,999) Internal Trigger Range: ± 5 divisions Maximum Trigger Frequency: Up to 500 MHz with HF coupling External Trigger Input: ± 0.5 V, ± 5 V with Ext/10 TV Triggering: Line (up to 1500), NTSC, nonstandard video, field selection Signal Processing Waveform Averaging: Up to one million sweeps FFT Spectrum Analysis: Up to one million points Histogram Analysis: Statistical variation measurement with parameter, trace, maximum values, range, and bin definition Math Processing: Up to four simultaneous functions

Key Features

Color-coded front panel with intuitive menu-driven operation Variable saturation Analog Persistence with memory storage Sample or dots-only waveform display modes (regular or bold) Opaque or transparent trace overlap visualization Automated measurements and analysis tools for rapid troubleshooting and debugging

Typical Applications

Signal characterization, circuit debugging, high-frequency waveform analysis, temporal edge capture, video signal validation, and statistical waveform measurement.

Compatibility & Integration

Supports PP006 probe accessory. Accepts external trigger signals. Operates with 1 M Ω or 50 Ω input configurations for flexible measurement environments.

LT344 Characteristics / Specifications

PARAMETER	VALUE
Bandwidth	500 MHz at 50 Ohm and probe tip with PP006
Channels	4
Bandwidth Limiters	25 MHz or 200 MHz selectable per channel
Input Impedance	50 Ohm +/-1.0%; 1 MOhm parallel 12 pF typical with PP006
Max Input 50 Ohm	5 Vrms
Max Input 1 MOhm	400 Vmax
Single Shot Sample Rate	500 MS/s max
Acquisition Memory	250 kpts/Ch
Vertical Resolution	8 bits
Sensitivity	2 mV to 5 V/div fully variable; 10 V/div
DC Accuracy	+/-1.5% (0.5% of full scale)
Interpolator Resolution	5 ps
External Clock	less than or equal to 500 MHz
Maximum Trigger Frequency HF Coupling	up to 500 MHz
Internal Trigger Range	+/-5 div
Holdoff By Time	up to 20 s
Holdoff By Events	1 to 999999999 events
Analog Persistence	Yes
RIS Equivalent Time Rate	25 GS/s
Offset Range Low Volts	+/-1 V at 2 to 50 mV/div
Offset Range Mid Volts	+/-10 V at 100 to 500 mV/div
Offset Range High Volts	+/-100 V at 1 to 10 V/div
Input Coupling 1 MOhm	AC DC GND

LT344 Specifications

PARAMETER	VALUE
LeCroy LT344 Waverunner Digital Oscilloscope	Overview
Applications	500 MHz four-channel analog debug, repetitive signal analysis with equivalent-time sampling, and benchtop timing measurements.
Key Features	500 MHz bandwidth
Four channels	500 MS/s single-shot sample rate
Technical Specifications	Bandwidth: 500 MHz at 50 Ohm and probe tip with PP006
Notes	From LeCroy LT342/LT344 Waverunner technical specifications. LT344L expands memory to 1 Mpoint/Ch; confirm L option on the specific unit.

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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External Clock	less than or equal to 500 MHz
Maximum Trigger Frequency HF Coupling	up to 500 MHz
Internal Trigger Range	+/-5 div
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Holdoff By Events	1 to 99999999 events
Analog Persistence	Yes
RIS Equivalent Time Rate	25 GS/s
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Notes	
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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

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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.