

LECROY (TELEDYNE LECROY)

WAVEPRO 7200

The Teledyne LeCroy WavePro 7200 is a high-performance 2 GHz digital storage oscilloscope designed for precise waveform capture, high-speed signal analysis, and advanced jitter measurements. Featuring a 10.4-inch touch screen, a high sample rate of up to 20 GS/s, and a robust suite of automatic measurement and math tools, it is optimized for demanding engineering and research environments.

SPECIFICATIONS

General

Interfaces	LAN (10/100 Base-T), USB 2.0, RS-232, SVGA Out, Centronics Parallel, GPIB (Optional)
Display	10.4-inch color TFT-LCD touch screen, 800 × 600 resolution
Standards and Compliance	EN 61010-1, EN 61326-1, CE Approved, UL and cUL listed

Physical

Power Supply	100 - 240 V AC (±10%) at 50/60 Hz, 90 - 132 V AC at 400 Hz; Max 650 W
Operating Temperature	5 to 40 °C °C
Dimensions (W×H×D)	428 mm × 355 mm × 384 mm mm
Weight	18.0 kg

Vertical System

Analog Bandwidth (-3 dB)	2 GHz
Calculated Rise Time (10% to 90%)	225 ps
Number of Input Channels	4
Input Coupling	AC, DC 50 Ω, DC 1 MΩ, GND
Input Impedance	50 Ω ± 1% or 1 MΩ 16 pF
Vertical Sensitivity Range	2 mV/div - 1 V/div (50 Ω), 2 mV/div - 2 V/div (1 MΩ)
Vertical Resolution (A/D Converter)	8 bits (up to 11 bits with ERES)
DC Gain Accuracy	±1.5% of full scale
Maximum Input Voltage (50 Ω)	5 Vrms
Maximum Input Voltage (1 MΩ)	100 V max (DC + Peak AC < 10 kHz)
Channel-to-Channel Isolation	> 40 dB (at 1 GHz)
Bandwidth Limiters	20 MHz, 200 MHz
Input Connectors	ProLink with BNC adapters
Offset Range (50 Ω)	±0.5 V (2 - 19.8 mV/div), ±1.0 V (20 - 99 mV/div), ±5.0 V (100 - 198 mV/div), ±10 V (200 mV - 1 V/div)
Offset Range (1 MΩ)	±0.5 V (2 - 19.8 mV/div), ±1.0 V (20 - 99 mV/div), ±5.0 V (100 - 198 mV/div), ±100 V (200 mV - 2 V/div)

Horizontal System & Acquisition

Maximum Real-time Sample Rate (Single/Dual Channel)	20 GS/s
Maximum Real-time Sample Rate (Four Channels)	10 GS/s
Random Interleaved Sampling (RIS) Rate	200 GS/s
Standard Memory Depth	2 Mpts/ch (4 Mpts interleaved)
Time Base Range	20 ps/div - 1000 s/div
Time Base Accuracy	±10 ppm
Channel-to-Channel Deskew Range	±4.5 ns

Trigger System

Trigger Modes	Auto, Normal, Single, Stop
Trigger Coupling	DC, AC, HFRej, LFRej
Standard Trigger Types	Edge, Glitch, Width, Logic Pattern, TV/Video
Advanced/Smart Triggers	State, Qualified, Runt, Slew Rate, Interval, Dropout
External Trigger Input Impedance	50 Ω or 1 M Ω
Trigger Sensitivity (Edge)	0.3 div @ < 10 MHz, 1.0 div @ 2 GHz

Acquisition Modes & Signal Processing

Acquisition Modes	Real-time, RIS, Roll, Segmented
Waveform Math Operators	Add, Subtract, Multiply, Divide, FFT, Absolute Value, Derivative, Integral, Square, Square Root, Log, Exponential, Reciprocal, Rescale, ERES
FFT Window Types	Rectangular, Von Hann, Hamming, Flat Top, Blackman-Harris

Measurements & Analysis

Automatic Measurements	Up to 8 parameters measured simultaneously
Voltage Measurements	Amplitude, Area, Base, Maximum, Minimum, Mean, Peak-to-Peak, RMS, Top
Time and Frequency Measurements	Frequency, Period, Width, Duty Cycle, Rise Time, Fall Time, Delay, Phase
Cursor Measurements	Relative Time, Relative Voltage, Absolute Time, Absolute Voltage

Display & User Interface

Waveform Grid Styles	Single, Dual, Quad, Octal, XY, Single+XY, Dual+XY
Waveform Persistence Settings	Off, Infinite, Variable (color-graded or intensity-graded)

Environmental & Compliance

Storage Temperature Range	-20 °C to +60 °C
Operating Humidity Range	5% to 80% RH (non-condensing) up to 30 °C
Operating Altitude	Up to 3,000 m (10,000 ft) at 25 °C

Horizontal System

Trigger Jitter	< 2.5 ps RMS (typical)
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Processor & OS

Operating System	Windows 2000
Processor	Intel Pentium III
Standard System RAM	512 MB

Storage

Removable Storage	3.5" 1.44 MB Floppy Drive, CD-ROM
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Ports & Connectivity

LAN Port	10/100Base-T Ethernet (RJ-45)
GPIO Port	IEEE-488 (GPIO)
External Monitor Port	15-pin D-Sub (VGA)
Serial Port	9-pin D-Sub (RS-232)
Parallel Port	25-pin D-Sub (Centronics)

Power Requirements

Maximum Power Consumption	650 VA
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Triggering

Trigger Holdoff Range	2 ns to 20 s (or 1 to 99,999,999 events)
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Auxiliary Connections

Calibrator Output Signal	1 kHz, 1 V into ≥ 100 kΩ
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Acquisition

Interpolation Types	Linear, Sin(x)/x
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TECHNOLOGY

Digital Storage Oscilloscope (DSO)

APPLICATIONS

High-Speed Digital Design, Jitter & Timing Analysis, Embedded Systems Testing, Physics Research

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