

LECROY (TELEDYNE LECROY)

WAVEPRO 960

The Teledyne LeCroy WavePro 960 is a high-performance 4-channel digital oscilloscope featuring a 2 GHz bandwidth, a maximum single-channel real-time sampling rate of 16 GS/s, and a 10.4-inch color display. Designed for advanced circuit validation and analysis, it integrates extensive measurement and triggering options within a Windows-based operating environment.

SPECIFICATIONS

General

Interfaces	GPIB (IEEE-488.2), RS-232-C, 10/100Base-T Ethernet, Centronics parallel, external VGA
Display	10.4-inch color TFT-LCD, SVGA (800 × 600) resolution

Physical

Power Supply	90 - 264 VAC, 45 - 66 Hz, 350 VA maximum power consumption
Operating Temperature	5 to 40 °C °C
Dimensions (W×H×D)	397 × 264 × 453 mm mm
Weight	14 kg kg

Vertical System

Analog Bandwidth (-3 dB)	2 GHz
Calculated Rise Time (10% to 90%)	225 ps
Number of Input Channels	4
Input Impedance	50 Ω (±1%), 1 MΩ (±1%)
Input Coupling	AC, DC, GND
Vertical Resolution (ADC)	8 bits
DC Gain Accuracy	±1.5%
Maximum Input Voltage (50 Ω)	5 Vrms
Maximum Input Voltage (1 MΩ)	400 V max (DC + Peak AC ≤ 10 kHz)
Input Sensitivity Range (50 Ω)	2 mV/div - 1 V/div
Input Sensitivity Range (1 MΩ)	2 mV/div - 10 V/div
Enhanced Resolution (ERES)	up to 11 bits
Bandwidth Limiters	25 MHz, 200 MHz
Offset Range (50 Ω)	±1 V (2 to 4.9 mV/div), ±2 V (5 to 99 mV/div), ±10 V (100 mV to 1 V/div)
Offset Range (1 MΩ)	±1 V (2 to 4.9 mV/div), ±2 V (5 to 99 mV/div), ±20 V (100 mV to 1 V/div), ±200 V (1.02 to 10 V/div)

Horizontal System

Maximum Real-Time Sampling Rate (1 Ch)	16 GS/s
Maximum Real-Time Sampling Rate (2 Ch)	8 GS/s
Maximum Real-Time Sampling Rate (4 Ch)	4 GS/s
Standard Record Length (1 Ch)	1 Mpoints
Standard Record Length (2 Ch)	500 kpoints
Standard Record Length (4 Ch)	250 kpoints
Time Base Range	50 ps/div - 1000 s/div
Random Interleaved Sampling (RIS) Rate	50 GS/s
Timebase Clock Stability	≤ 10 ppm

Trigger System

Trigger Modes	Auto, Normal, Single, Stop
Trigger Coupling	AC, DC, HFRej, LFRaj
Edge Triggering	Yes
Pulse Width Triggering	Yes
Runt Triggering	Yes
Window Triggering	Yes
Timeout Triggering	Yes
Trigger Level Range (Internal)	±5 divisions
Glitch Triggering	Yes
Interval Triggering	Yes
Dropout Triggering	Yes
State / Pattern Triggering	Yes
Slew Rate Triggering	Yes
Video / TV Triggering	Yes

Acquisition System

Acquisition Modes	Real-time, RIS, Roll, Sequence
Memory Option M (1 Ch / 2 Ch / 4 Ch)	8 Mpts / 4 Mpts / 2 Mpts
Memory Option L (1 Ch / 2 Ch / 4 Ch)	16 Mpts / 8 Mpts / 4 Mpts
Memory Option XL (1 Ch / 2 Ch / 4 Ch)	64 Mpts / 32 Mpts / 16 Mpts

Display and User Interface

Display Type	Color TFT-LCD
Display Resolution	800 × 600 pixels

Display and User Interface

Display Size	10.4 inches
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Connectivity and Ports

GPIO (IEEE-488) Interface	1 × GPIO (IEEE-488.2)
Serial Port	1 × RS-232-C (DB-9)
Parallel Port	1 × Centronics
External Video Output Port	1 × VGA (DB-15)
Auxiliary Output	Yes
External Trigger Input Port	1 × BNC

Processor and Storage

Internal Operating System	VxWorks
Removable Storage	3.5-inch floppy drive, PCMCIA card slot

Power Specifications

Power Supply Voltage	90 - 264 VAC
Power Supply Frequency	45 - 66 Hz
Power Consumption (Maximum)	350 VA

Physical Characteristics

Form Factor	Benchtop
Height	264 mm
Width	397 mm
Depth	453 mm

Environmental

Storage Temperature	-20 °C to +60 °C
Operating Altitude	up to 3,048 m (10,000 ft)

Inputs & Outputs

Input Connectors	ProLink
Calibrator Output	1 kHz, 1 V square wave into 1 MΩ

Analysis & Measurement

Standard Math Tools	Addition, Subtraction, Multiplication, Division, FFT, Integration, Differentiation, Rescaling, Absolute Value, Square, Square Root, Exponential, Logarithm, Enveloping, Extremum
Automated Measurements	Up to 8 simultaneous measurements: Amplitude, Area, Base, Cycle Mean, Cycle RMS, Cycle Std Dev, Delay, Duty Cycle, Fall Time, Frequency, Max, Mean, Min, Overshoot, Peak-to-Peak, Period, Phase, Rise Time, RMS, Std Dev, Top, Width

TECHNOLOGY

Digital Phosphor / DSO

APPLICATIONS

High-speed digital design, signal integrity, serial data analysis, and advanced circuit debug

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