

LECROY (TELEDYNE LECROY)

WaveRunner 6200A

The Teledyne LeCroy WaveRunner 6200A is a high-performance 2 GHz, 4-channel digital storage oscilloscope from the WaveRunner 6000A Series. Designed to provide engineers with accurate signal testing capabilities, it features a 5 GS/s real-time sample rate per channel (interleaved to 10 GS/s on 2 channels), standard 2 Mpts/ch acquisition memory, and an intuitive 8.4-inch SVGA touchscreen interface. Built on a Windows XP Embedded platform, the WaveRunner 6200A offers advanced trigger capabilities, comprehensive math and measurement tools, and extensive connectivity options, making it an ideal choice for design, debug, and characterization of fast analog and digital circuits.

SPECIFICATIONS

General

Interfaces	USB 2.0, 10/100Base-T LAN, RS-232, Centronics Parallel, SVGA video output, GPIB (optional)
Display	8.4" color TFT-LCD touchscreen, SVGA 800 x 600 resolution
Standard Warranty	3 years

Physical

Power Supply	100 - 240 VAC (+/- 10%) at 50/60 Hz; 100 - 120 VAC at 400 Hz; Max 350 VA
Operating Temperature	5 °C to 40 °C °C
Dimensions (W×H×D)	355 mm × 263 mm × 152 mm mm
Weight	6.8 kg kg

Vertical System

Analog Bandwidth (-3 dB)	2 GHz
Number of Input Channels	4
Calculated Rise Time (10% to 90%)	225 ps (typical)
Vertical Resolution	8 bits (up to 11 bits with Enhanced Resolution)
Input Impedance (1 Mohm)	1 Mohm +/- 1% 16 pF
Input Impedance (50 ohm)	50 ohm +/- 1%
Input Coupling	AC, DC, GND
Input Sensitivity Range (50 ohm)	2 mV/div - 1 V/div
Input Sensitivity Range (1 Mohm)	2 mV/div - 10 V/div
DC Gain Accuracy	+/- 1.5% of full scale
Maximum Input Voltage (50 ohm)	5 Vrms
Maximum Input Voltage (1 Mohm)	400 V max (DC + Peak AC <= 10 kHz)
Hardware Bandwidth Limits	20 MHz, 200 MHz
Probe Interface	LeCroy ProBus
Enhanced Resolution (ERRES)	Up to 11 bits
Channel-to-Channel Isolation	> 40 dB (100:1) at 2 GHz, > 50 dB (316:1) at < 1 GHz
Offset Range (50 ohm)	±1 V (2 mV - 194 mV/div), ±10 V (195 mV - 1 V/div)
Offset Range (1 Mohm)	±1 V (2 mV - 194 mV/div), ±10 V (195 mV - 1.94 V/div), ±100 V (1.95 V - 10 V/div)

Horizontal System

Maximum Real-Time Sampling Rate	5 GS/s on 4 channels, 10 GS/s on 2 channels (interleaved)
Equivalent-Time Sampling Rate (RIS)	200 GS/s
Maximum Record Length (Standard)	2 Mpts/ch (4-channel mode), 4 Mpts/ch (2-channel mode)
Time Base Range	50 ps/div - 10 s/div
Time Base Accuracy	<= 5 ppm
Channel-to-Channel Deskew Range	+/- 4.5 ns
Trigger Jitter	< 2.5 ps RMS
Timebase Interpolation	Linear, Sin(x)/x

Trigger System

Trigger Sources	CH1, CH2, CH3, CH4, EXT, EXT/10, Line
Trigger Modes	Auto, Normal, Single, Stop
Trigger Coupling	AC, DC, HFRej, LFRej
Standard Trigger Types	Edge, Glitch, Width, Logic (Pattern), TV (NTSC, PAL, SECAM, HDTV), Runt, Slew Rate, Interval, Dropout, State
External Trigger Input Impedance	1 Mohm 16 pF or 50 ohm
External Trigger Max Input Voltage (1 Mohm)	250 V max (DC + Peak AC <= 10 kHz)
Trigger Sensitivity (Edge)	1 div @ < 10 MHz, 1.5 div @ < 2 GHz

Acquisition System

Acquisition Modes	Real-time, RIS (Random Interleaved Sampling), Roll
Maximum Waveform Capture Rate	Up to 150,000 waveforms/sec (using Sequence Mode)
Segmented Memory (Sequence Mode)	Up to 50,000 segments
Max Sampling Rate (2-Channel Mode)	10 GS/s
Max Sampling Rate (4-Channel Mode)	5 GS/s
Memory Options (Optional)	4 Mpts/ch (M-Option), 12 Mpts/ch (L-Option), 24 Mpts/ch (VL-Option)

Display & User Interface

Display Size	8.4 inches
Display Type	Color TFT-LCD
Display Resolution	800 x 600 pixels (SVGA)
Touchscreen Technology	Resistive touch screen

Waveform Measurements and Analysis

Automatic Measurements	Up to 8 parameters displayed simultaneously
Math Functions	Dual operator math (add, subtract, multiply, divide, FFT, enhanced resolution, etc.)
FFT Window Types	von Hann (Hanning), Hamming, Flat Top, Blackman-Harris, Rectangular

Connectivity and Ports

USB Host Ports	4 x USB 2.0 (1 front, 3 rear)
LAN Port	10/100Base-T Ethernet (RJ-45)
External Video Output	SVGA DB-15
Auxiliary Output	BNC connector (Trigger Out or Pass/Fail)
Reference Clock Input	10 MHz BNC
RS-232 Port	DB-9 male

Processor & Storage

Operating System	Windows XP Embedded
Internal Storage	Hard Disk Drive (HDD) standard

Environmental Specifications

Storage Temperature Range	-20 °C to +60 °C
Operating Humidity Range	5% to 80% RH at <= 30 °C (derating to 45% at 40 °C)
Operating Altitude	Up to 3,048 m (10,000 ft)

Physical Characteristics

Width	355 mm
Height	263 mm
Depth	152 mm

System Architecture

Architecture	LeCroy X-Stream Technology
Processor	Intel Celeron 2.0 GHz (or better)
System RAM	512 MB (standard)
Expansion Slots	1 x PCMCIA Type II

Power Requirements

AC Input Voltage	90 - 264 VAC (45 - 66 Hz), 90 - 132 VAC (380 - 440 Hz)
Power Consumption (Maximum)	350 W

Environmental

Operating Humidity	5% to 80% RH at <= 30 °C (derating to 45% at 40 °C)
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Triggering System

Trigger Level Range (Internal)	±4.1 divisions from center
External Trigger Ranges	EXT: ±0.5 V, EXT/10: ±5 V, EXT/100: ±50 V

Compliance & Standards

EMC Compliance	Conforms to EN 61326-1
Safety Compliance	Conforms to EN 61010-1

TECHNOLOGY

Digital Storage Oscilloscope (DSO)

APPLICATIONS

High-Speed Electronic Design, Debugging, and Signal Integrity Testing

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