

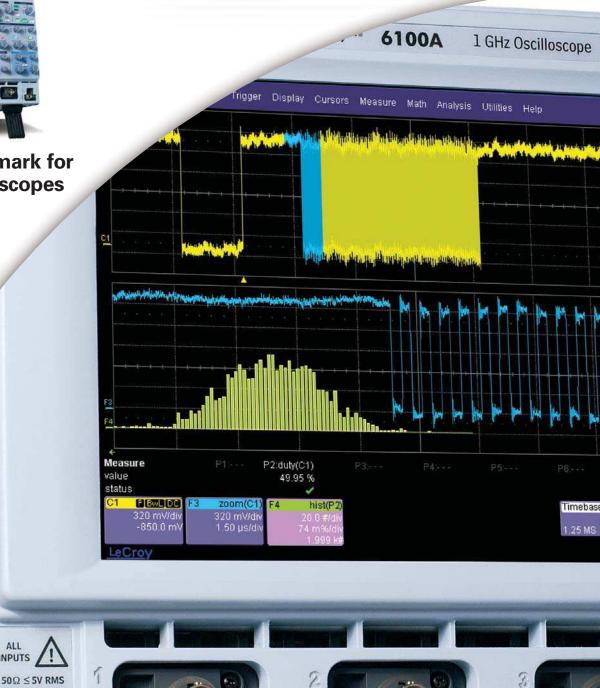
WAVERUNNER® 6000A SERIES



The New Benchmark for **Everyday Oscilloscopes**

> ALL INPUTS /!

1MΩ ≤ 400V PK



The WaveRunner[®] 6000A Series is the best oscilloscope for everyday signal testing. Its remarkable functionality includes the following capabilities:

- acquisition technology that delivers measurements you can trust
- an efficient interface that feels just right to the busy engineer
- uncommon capabilities—right out of the box
- a platform for building on even more functionality

A Rich Feature Set is Standard

The new WaveRunner is an everyday bench scope with true "lab instrument" capabilities. This series offers:

- Bandwidths from 350 MHz to 2 GHz
- Sample rates of 2.5 to 10 GS/s
- Standard memory 2 Mpts/Ch
- All channels expandable to 12 Mpts
- Up to 24 Mpts when interleaved

Most importantly, these features are delivered at a price far below other oscilloscopes in this class.

Outstanding Signal Fidelity

The WaveRunner 6000A series is powered by the same SiGe chipset that is used in LeCroy's higher bandwidth WaveMaster oscilloscopes.

- High sample rate captures high frequency transients and sharp edges
- Very low residual jitter (2 ps typical)
- Includes ultra-stable clock (±5 ppm)

This outstanding performance gives you timing resolution that rivals oscilloscopes that cost twice as much.

Windows[®] XP Operating System

The open Windows XP operating system allows you to install Windows application software to analyze waveform data directly in the oscilloscope, eliminating the need for processing in another PC.



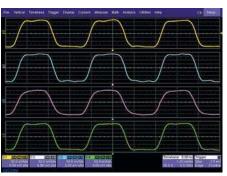


5 GS/s on Each Channel— See Details Others Miss

The WaveRunner 6000A is a true 4 channel instrument—you can sample at a full 5 GS/s on each channel. Other oscilloscopes can only use a single channel at 5 GS/s or 1/4 that rate when using all four channels. WaveRunner offers more than Nyquist sample rate on each channel.

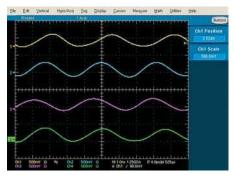
SMART Trigger[®] Makes the Most of Your Long Memory

The WaveRunner 6000A SMART Trigger provides the flexibility to quickly trigger and locate the specific signal characteristic or pattern you want. Trigger on abnormal signals at the touch of a button.



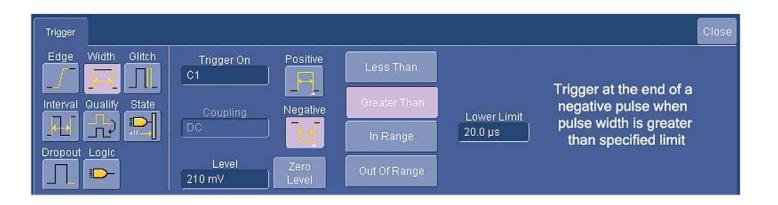
With a true 5 GS/s on each channel, this 300 MHz square wave (checking a timing delay problem between multiple clock signals) is displayed accurately.

- Exclusion/inclusion feature triggers on signals outside, or within, a specific range of pulse widths.
- Selecting multiple threshold levels and pulse widths quickly catches the waveform for viewing and measuring.



Other oscilloscopes are limited to 1.25 GS/s on each channel and display the same measurement as a less than informative sinusoidal signal.

- Memory retains thousands of acquired events for viewing at your leisure.
- Replay signal history, scan, and search from sweep to sweep.



The New 6000A Series An Outstanding Scope Experience

The WaveRunner 6000A oscilloscope is designed to be a custom fit to your working style. Hundreds of scope users helped us meet this goal by contributing their ideas to the uniquely efficient interface.

1. Bright Display

All WaveRunner oscilloscopes include a crisp and bright SVGA screen with 800 x 600 pixels for superior resolution. It's the best resolution available for this class of scope.

2. One Touch Efficiency

The descriptor labels show the scope settings and status. Touch the screen once to open a setup dialog and change settings.

Quickly measure a signal's timing characteristics. Touch "Measure" and "Horizontal" to see multiple common timing parameters. Math, histograms, statistics, and other analysis tools are all within two touches.

3. Dedicated Vertical Controls

Each channel has its own volts per division (V/div) control knob. You can control any channel by turning the knob—eliminating the need to multiplex a single V/div control across all four channels.

4. Intensity Modulated Display

Display intensity can be adjusted from 0-100% to enable a better view of underlying glitches, runts, or signal modulation in long record captures. The perfect accompaniment to the WaveRunner oscilloscope's long memory.



PP007 Passive Probe

Only 2.5 mm in diameter with low circuit loading and a flat impulse response, this new probe is the ideal fit for general-purpose applications.





5. Cursor Knobs

Need a quick measurement? Just turn the cursor knob to bring up a pair of vertical cursors to measure timing relationships and quickly characterize the waveform.

6. Zoom Control Knobs

Need a closer look at your signal? Push the QuickZoom button. Four dedicated knobs (zoom and offset in horizontal and vertical directions) make it easy to navigate any trace—from broad relationships to minute details.

7. "Push" Knobs

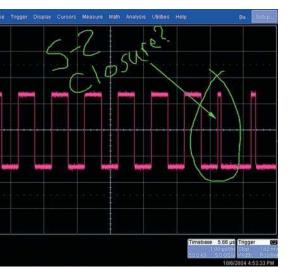
WaveRunner rotating knobs control functions, but pushing them invokes further functionality. Push the trigger level; the scope selects the correct setting for a stable display. Push the offset button; your scope instantly zeroes the offset, restoring the waveform clearly in the middle of the screen. Another push restores the offset.

8. Handy, Front Accessible USB Port

Use a memory stick to transfer your captured waveforms, or take your setup from scope to scope to automatically load your configuration. In addition, with one USB port on the front panel and four more on the back, you can connect a variety of plug-n-play peripheral and memory devices. WaveRunner lets you focus on understanding your signal rather than setting up your oscilloscope. The productivity improvement is dramatic and immediate. Here's a prime example of how thoroughly WaveRunner fits your everyday process.

LeCroy Introduces a Complete In-scope Solution—Standard on most LeCroy Oscilloscopes

Now you can efficiently create complete and detailed waveform reports directly in the oscilloscope. An all-in-one solution for annotating and sharing information, LabNotebook™ simplifies results recording and report generation by eliminating the multi-step processes that often involve several pieces of equipment.

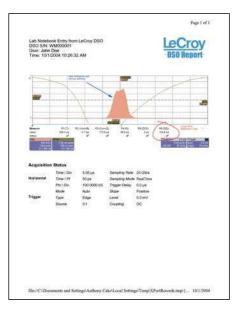


LabNotebook enables you to focus on results rather than the process, so you can now:

- Save all displayed waveforms
- Save the relevant setups with the saved waveform
- Add freehand notes with a stylus or as text
- Convert the complete report to pdf, rtf, or html
- Print or e-mail reports

Create Notes with the Screen Capture

By pressing Hard Copy, you can annotate waveforms as you capture them. Once the notes are finished, they can be readily saved as a report and e-mailed directly from WaveMaster.



Flashback Function

You can employ the Flashback Function to recall the state of the oscilloscope, including saved waveforms and setup. Additional measurements are easily made using the keyword filter to find the correct notebook entry for recall.

From Everyday Testing to Robust Analysis

It's the perfect end-to-end solution: a bench top oscilloscope that can handle everyday signal measurements easily and efficiently, but can expand to perform more sophisticated WaveShape Analysis when needed. Yet it's priced far below other scopes that are not nearly as versatile and fully featured.

Expanded Analysis

The XMATH Advanced Math software package provides more than 30 math functions and 40 parameter measurements including:

- Parameter math
- Tracking measurements
- Expanded FFT (up to 24 Mpts)
- Expanded histogramming

• Trending of up to one million events XMATH has a graphical interface that lets you connect input source, measurement, and display icons for surprisingly simple advanced analysis.

Custom Analysis

The XDEV Advanced Customization software package allows you to create your own scripts for measurement parameters or math functions, using third-party software packages such as Excel, MATLAB, and Mathcad. XDEV seamlessly integrates your custom measurements directly into the oscilloscope's data path, eliminating the need to run separate programs. You can also use XDEV to customize

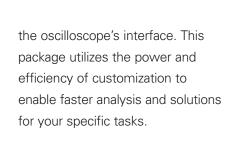
Software Option Packages

General Purpose	
Master Analysis Software Package (Includes JTA2, XMATH and XDEV)	WR6-XMAP
Advanced Math Software Package	WR6-XMATH
Customization Software Package	WR6-XDEV
Value Analysis Software Package (Includes XWAV and JTA2)	WR6-XVAP
Intermediate Math Software Package	WR6-XWAV
Processing Web Editor Software Package for Functions and Parameters	WR6-XWEB
Application Specific	
Jitter and Timing Analysis Software Package	WR6-JTA2
PowerMeasure Analysis Software Package	WR6-PMA2
Digital Filter Software Package	WR6-DFP2
Disk Drive Measurement Software Package	WR6-DDM2
Ethernet Test Software Package (WaveRunner 6200A Only)	WR6-ENET
USB 2.0 Compliance Test Software Package (WaveRunner 6200A Only)	WR6-USB2
Serial Data Mask Software Package	WR6-SDM*
Software and Hardware Option Packages	
32 Digital Channel Oscilloscope Mixed Signal Option	MS-32**
CANbus Trigger, Decode and Measure/Graph Testing Option	

CANbus Trigger, Decode and Measure/Graph Testing OptionCANbus TDMCANbus Trigger and Decode Testing OptionCANbus TD

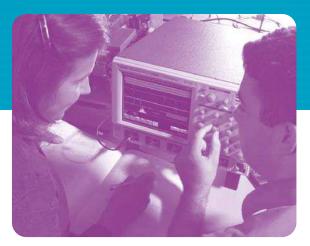
*WR6200A model oscilloscope required for full mask testing capability, lower bandwidth models will have reduced capabilities.

**MS-32 is compatible with WR6000A 4-channel model oscilloscopes only.





Expandability Ensures an Excellent Return on Investment



Mixed Signal Testing Oscilloscope Option (MS-32)*

Add 32 digital channels to a 4-channel oscilloscope for 4 analog + 32 digital testing capability, with a simple oscilloscope setup and user interface. Each digital channel has 1 Mpts/Ch (32 Mpts total!) to capture all of your signal information for efficient debug and analysis. 32 digital channels is ideal for the most efficient testing of 16-bit embedded controllers where all 16 ADDR and DATA lines can be viewed simultaneously.

*MS-32 is compatible with WR6000A 4-channel model oscilloscopes only.

CANbus Trigger, Decode, and Measure/Graph Testing Options (CANbus TDM, CANbus TD)

Flexibly trigger on CAN bus messages. Decode and display hexadecimal data values next to the CAN signal on the screen. Measure and statistically analyze timing and other data. Graph system performance. Easily correlate electrical problems to CAN bus messages or error frame data.

Jitter and Timing Analysis Software Package (JTA2)

Find modulation effects and intermittent signal jitter to track timing changes, and to debug in the time, frequency, and statistical domains. Views like Jitter Track and Jitter Histogram let you see system variability in ways that you have never imagined.

PowerMeasure Analysis Software Package (PMA2)

The PMA2 package automates and enhances your ability to analyze power conversion devices and circuits. Optional accessories, such as differential amplifiers, differential probes, current probes, and deskew fixtures complete the solution.

Digital Filter Software Package (DFP2)

DFP2 lets you add any of a set of linear-phase Finite Impulse Response (FIR) filters. It enhances your ability to examine important signal components by filtering out undesired spectral components such as noise. Use the standard filters or create your own.

Disk Drive Measurement Software Package (DDM2)

The Disk Drive Measurement Package (DDM2) adds dozens of new disk drive measurements. DDM2, combined with WaveRunner 6000A's sequence triggering and SMART Triggers, offers the perfect solution for failure analysis when testing disk drives.

Ethernet Test Software Package (ENET)

(WaveRunner 6200A Only)

Conduct complete electrical testing for 1000Base-T, 100Base-T, and 10Base-T Ethernet standards. Jitter and pulse mask tests are performed with automatic waveform alignment, and all test results feature pass/fail indicators corresponding to the IEEE 802.3-2000 and ANSI X3.263 standards being tested.

USB 2.0 Compliance Test Software Package (USB2)

(WaveRunner 6200A Only)

USB2 provides a complete acquisition and analysis system for USB 2.0 devices, hosts, and hubs, as specified in the USB-IF USB 2.0 Electrical Test Specification, version 1.0.

Serial Data Mask Software Package (SDM)*

The SDM toolset harnesses the WaveRunner ocilloscope's long memory and low jitter to deliver outstanding serial bus characterization. Choose from a comprehensive list of standard eye pattern masks, or create a user-defined mask. Mask violations are clearly marked on the display, so you don't have to guess.

SDM also allows a software "GOLDEN" PLL reference to recover an eye diagram from a single long acquisition. The measurement is complete in seconds, and the already low trigger jitter is eliminated, giving you the most precise result possible.

^{*}WR6200A model oscilloscope required for full mask testing capability, lower bandwidth models will have reduced capabilities.

Application and Analysis Package Specifications

Standard

Math Tools

Display up to four math function traces (F1-F4). The easy-to-use graphical interface simplifies setup of up to two operations on each function trace, and function traces can be chained together to perform math-on-math.

absolute value	invert (negate)
average (summed)	log (base e)
average (continuous)	log (base 10)
custom (MATLAB, Mathcad,	product (x)
VBScript) – limited points	ratio (/)
derivative	reciprocal
deskew (resample)	rescale (with units)
difference ()	roof
enhanced resolution (to 11 bits vertical)	(sinx)/x
envelope	square
exp (base e)	square root
exp (base 10)	sum (+)
fft (power spectrum, magnitude, phase,	trend (datalog) of
up to 50 kpts)	1000 events
floor	zoom (identity)
histogram of 1000 events	
integral	

Measure Tools

Display any 6 parameters together with statistics, including their average, high, low, and standard deviations. Histicons provide a fast, dynamic view of parameters and wave shape characteristics.

amplitude area base cycles custom (MATLAB, Mathcad, VBScript) - limited points delay Δ delay duration duty cycle	frequency last level @ x maximum mean median minimum number of points +overshoot -overshoot peak-to-peak	risetime (10–90%, 20–80%, @ level) rms std. deviation time @ level top Δ time @ level Δ time @ level from trigger width (positive + negative) x@ max
		-

Pass/Fail Testing

Simultaneously test multiple parameters against selectable parameter limits or pre-defined masks. Pass or fail conditions can initiate actions including document to local or networked files, e-mail the image of the failure, save waveforms, send a pulse out at the rear panel auxiliary BNC output, or (with the GPIB option) send a GPIB SRQ.

Software Options

Advanced Math and WaveShape Analysis

Master Analysis Software Package (XMAP)

This package provides maximum capability and flexibility, and includes all the functionality present in XMATH, XDEV, and JTA2

Advanced Math Software Package (XMATH)

This package provides a comprehensive set of WaveShape Analysis tools providing insight into the wave shape of complex signals. Additional capability provided by XMATH includes:

- Parameter math add, subtract, multiply, or divide two different parameters. Invert a parameter and rescale parameter values.
- Histograms expanded with 19 histogram parameters and up to 2 billion events
- Trend (datalog) of up to 1 million events
- Track graphs of any measurement parameter
- FFT capability added to include: power averaging, power density, real and imaginary components, frequency domain parameters, and FFT on up to 24 Mpts.
- Narrow-band power measurements
- Auto-correlation function
- Sparse function
- Cubic Interpolation function

Advanced Customization Software Package (XDEV)

This package provides a set of tools to modify the scope and customize it to meet your unique needs. Additional capability provided by XDEV includes:

- Creation of your own measurement parameter or math function, using third-party software packages, and display the result in the scope. Supported third-party software packages include:
- VBScript MATLAB Excel Mathcad
- CustomDSO create your own user interface in a scope dialog box.
- Addition of macro keys to run VBScript files
- Support for plug-ins

Value Analysis Software Package (XVAP)

XVAP Adds the following capabilities:

Measurements:

 Jitter and Timing parameters (period@level,width@level, edge@level, duty@level, time interval error@level, frequencey@level, half period, setup, skew, Δ period@level, Δ width@level).

Math:

- Persistence histogram Persistence trace (mean, sigma, range)
- 1 Mpts FFTs with power spectrum density, power averaging, real, imaginary, and real+imaginary settings)

Statistical and Graphical Analysis

- 1 Mpts Trends and Histograms
 19 histogram parameters
- Track graphs of any measurement parameter

Intermediate Math Software Package (XWAV)

XWAV Adds the following capabilities:

Math:

• 1 Mpts FFTs with power spectrum density, power averaging, real, and imaginary components

Statistical and Graphical Analysis

• 1 Mpts Trends and Histograms

- 19 histogram parameters
- Track graphs of any measurement parameter

Application and Analysis Package Specifications

Application Specific Test and Analysis Packages

Jitter and Timing Analysis Software Package (JTA2)

This package provides jitter timing and analysis using time, frequency, and statistical views for common timing parameters, and also includes other useful tools. JTA2 includes:

• Jitter and timing parameters, with "Track" graphs of

– Cycle-Cycle Jitter	– Period	– Hold
– N-Cycle	– Half Period	– Skew
 N-Cycle with start selection 	– Width – Time Interval Error	– Duty Cycle – Duty Cycle Error
– Frequency	– Setup	

- Edge@lv parameter (counts edges)
- Histograms expanded with 19 histogram parameters and up to 2 billion events
- Trend (datalog) of up to 1 million events
- Track graphs of all parameters
- Persistence histogram, persistence trace (mean, range, sigma)

Digital Filter Software Package (DFP2)

LeCroy's Digital Filter Package (DFP2) implements a set of linear-phase Finite Impulse Response (FIR) filters and IIR filters. It enhances your ability to examine important signal components by filtering out undesired spectral components such as noise. With the custom design feature, corrupted signals can be reconstructed by applying matched (mirror) filters to compensate for known distortions.

The DFP2 option has a broad range of applications:

- System Identification
- Prediction
- Noise Cancellation
- Low-pass Filters
- Band-stop Filters
- Band-pass Filters
- High-pass Filters
- Raised Cosine, Raised Root Cosine, and Gaussian Filters

PowerMeasure Analysis Package (PMA2)

This package provides exceptional ability to measure and analyze the operating characteristics of power conversion devices and circuits.

- Automatic setup and display of relevant waveforms and parameters
- Waveforms scaled and displayed in volts, amps, watts, ohms, etc.
- Power device performance analyzed in-circuit
- Measure and view time domain response of the entire control loop
- Pre-compliance line harmonic testing to EN 61000-3-2
- Complete solutions available including probes and differential amplifiers

Disk Drive Measurements Package (DDM2)

This package provides disk drive parameter measurements and related mathematical functions for performing disk drive WaveShape Analysis.

• Disk Drive Parameters are as follows:

amplitude assymetry	local time trough-peak
local base	local time under threshold
local baseline separation	narrow band phase
local maximum	narrow band power
local minimum	overwrite
local number	pulse width 50
local peak-peak	pulse width 50-
local time between events	pulse width 50+
local time between peaks	resolution
local time between troughs	track average amplitude
local time at minimum	track average amplitude-
local time at maximum	track average amplitude+
local time peak-trough	auto-correlation s/n
local time over threshold	non-linear transition shift

CANbus TDM Trigger, Decode, and Measure/Graph Testing Option (CANbus TDM)

- Trigger Module with TC251-OPTO optically isolated Trigger Coupler installed (and room for one additional Trigger Coupler). Trigger Couplers are interchangeable.
- CANbus TD Series Oscilloscope Interface Module with 1.0 meter connection cable. Connects Trigger Module to LeCroy oscilloscope ProBus® interface.
- Storage case with accessories (other accessories may be required)
- Software for
- Trigger Setup
- CAN Protocol Decode
- CAN Measurement, (CAN-analog, CAN-CAN, and Time@CAN timing parameters, CAN bus load% and CAN-Value Data Extraction parameters)
- Histogramming (up to 2 billion events)
- Graphing (Track and Trend).

CANbus TD Trigger and Decode Testing Option (CANbus TD)

- Same hardware package as CANbus TDM
- Software for only
- Trigger Setup
- CAN Protocol Decode

Oscilloscope Mixed Signal Option (MS-32)*

32 Digital Channel Oscilloscope Mixed Signal Option. Gripper probe accessories are recommended.

*MS-32 is compatible with WR6000A 4-channel model oscilloscopes only.

Specifications

Vertical System	WaveRunner 6030A	WaveRunner 6050A	WaveRunner 6051A	WaveRunner 6100A	WaveRunner 6200A
Nominal Analog Bandwidth @ 50 Ω, 10 mV-1 V/div	350 MHz	500 MHz	500 MHz	1 GHz	2 GHz
Rise Time (Typical)	1 ns	750 ps	750 ps	400 ps	225 ps
Input Channels	4	4	2	4	4
Bandwidth Limiters	20 MHz; 200 MH	Z			
nput Impedance		$M\Omega$ II 9.5 pF using PI	P007 probe)		
nput Coupling	50 Ω: DC, 1MΩ:				
Maximum Input Voltage	50 Ω: 5 Vrms, 1 N	ΛΩ: 250 V max (Peak	AC: ≤ 10 kHz + DC)		
Channel to Channel Isolation	> 40 dB @ < 100	MHz (> 30 dB @ full b	pandwidth)		
/ertical Resolution	8 bits; up to 11 w	vith enhanced resolution	on (ERES)		
Sensitivity	50 Ω: 2 mV/div –	1 V/div fully variable; 1	MΩ: 2 mV – 10 V/div	fully variable	
DC Accuracy	±1.0% of full sca	le (typical); ±1.5% of t	ull scale, ≥ 10 mV/div	(warranted)	
Offset Range	50 Ω: ± 400 mV (@ 2–4.95 mV/div			
	±1 V @ 5–100 m	//div			
	±10 V @ 102 mV,	/div–1 V/div			
	1 MΩ: ± 400 mV	@ 2–4.95 mV/div			
	±1 V @ 5–100 m				
	±10 V @ 102 mV				
	±100 V @ 1.02 V/				
Offset Accuracy	$\pm(1.5\% \text{ of offset})$	value + 0.5% of full s	cale +1 mV) all fixed g	ain setting < 2 V/div	
	±(1.5% of offset	value + 1.0% of full s	cale + 1 mV) for variat	ole and V/div settings	≥ 2 V/div
nput Connector	ProBus/BNC				
Timebase System					
īmebases	Internal timebase	common to all input of	hannels; an external c	lock may be applied a	it the auxiliary input
īme/Division Range	Real time: 200 ps	/div – 10 s/div, RIS mo	ode: to 20 ps/div, Roll r	mode: up to 1,000 s/d	iv
Clock Accuracy	< 5 nnm @ 25 °C	/ 10 mm @ F 40.00			
JUCK ACCUIACY	soppinezo c	(≤ 10 ppm @ 5–40 °C			
Sample Rate and Delay Time Accuracy	Equal to Clock Ac	curacy			
Sample Rate and Delay Time Accuracy rigger and Interpolator Jitter	Equal to Clock Ac ≤ 3 ps rms (typica	ccuracy			
Sample Rate and Delay Time Accuracy Trigger and Interpolator Jitter Time Interval Accuracy	Equal to Clock Ac ≤ 3 ps rms (typica Clock Accuracy +	ccuracy al) Jitter			
Sample Rate and Delay Time Accuracy Trigger and Interpolator Jitter Time Interval Accuracy Channel to Channel Deskew Range	Equal to Clock Ac ≤ 3 ps rms (typica Clock Accuracy + ±9 x time/div set	ccuracy al) Jitter ting, 100 ms max., ead	ch channel		
Source Accuracy Sample Rate and Delay Time Accuracy Trigger and Interpolator Jitter Time Interval Accuracy Channel to Channel Deskew Range External Sample Clock	Equal to Clock Ac ≤ 3 ps rms (typica Clock Accuracy + ±9 x time/div set DC to 1 GHz; 50	ccuracy al) Jitter ting, 100 ms max., eaα Ω, (limited BW in 1 M	ch channel Ω), BNC input, limited		Ch in WR6051A),
Sample Rate and Delay Time Accuracy Trigger and Interpolator Jitter Time Interval Accuracy Channel to Channel Deskew Range	Equal to Clock Ac ≤ 3 ps rms (typica Clock Accuracy + ±9 x time/div set DC to 1 GHz; 50 (minimum rise tin	ccuracy al) Jitter ting, 100 ms max., eaα Ω, (limited BW in 1 M	ch channel Ω), BNC input, limited irements apply at low		Ch in WR6051A),
Sample Rate and Delay Time Accuracy Trigger and Interpolator Jitter Time Interval Accuracy Channel to Channel Deskew Range External Sample Clock	Equal to Clock Ac ≤ 3 ps rms (typica Clock Accuracy + ±9 x time/div set DC to 1 GHz; 50 (minimum rise tin	ccuracy al) Jitter ting, 100 ms max., eaα Ω, (limited BW in 1 M ne and amplitude requ	ch channel Ω), BNC input, limited irements apply at low		Ch in WR6051A),
Sample Rate and Delay Time Accuracy Trigger and Interpolator Jitter Time Interval Accuracy Channel to Channel Deskew Range External Sample Clock Roll Mode	Equal to Clock Ac ≤ 3 ps rms (typica Clock Accuracy + ±9 x time/div set DC to 1 GHz; 50 (minimum rise tin User selectable.	scuracy al) Jitter ting, 100 ms max., ead Ω, (limited BW in 1 M ne and amplitude requ Available at lower time	ch channel Ω), BNC input, limited irements apply at low /div settings	frequencies)	
Sample Rate and Delay Time Accuracy Trigger and Interpolator Jitter Time Interval Accuracy Channel to Channel Deskew Range External Sample Clock Roll Mode Acquisition System Single-Shot Sample Rate/Ch	Equal to Clock Ac ≤ 3 ps rms (typica Clock Accuracy + ±9 x time/div set DC to 1 GHz; 50 (minimum rise tin User selectable. / 2.5 GS/s	scuracy al) Jitter ting, 100 ms max., ear Ω, (limited BW in 1 M ne and amplitude requ Available at lower time 5 GS/s	ch channel Ω), BNC input, limited irements apply at low /div settings 5 GS/s	frequencies) 5 GS/s	5 GS/s
Sample Rate and Delay Time Accuracy rigger and Interpolator Jitter Time Interval Accuracy Channel to Channel Deskew Range External Sample Clock Roll Mode Acquisition System Single-Shot Sample Rate/Ch Interleaved Sample Rate (2 Ch)	Equal to Clock Ac ≤ 3 ps rms (typica Clock Accuracy + ±9 x time/div set DC to 1 GHz; 50 (minimum rise tin User selectable. / 2.5 GS/s 5 GS/s	scuracy al) Jitter ting, 100 ms max., ead Ω, (limited BW in 1 M ne and amplitude requ Available at lower time	ch channel Ω), BNC input, limited irements apply at low /div settings	frequencies)	
Sample Rate and Delay Time Accuracy rigger and Interpolator Jitter Time Interval Accuracy Channel to Channel Deskew Range External Sample Clock Roll Mode Acquisition System Single-Shot Sample Rate/Ch Interleaved Sample Rate (2 Ch) Random Interleaved Sampling (RIS)	Equal to Clock Ac ≤ 3 ps rms (typica Clock Accuracy + ±9 x time/div set DC to 1 GHz; 50 (minimum rise tin User selectable. / 2.5 GS/s 5 GS/s 200 GS/s	scuracy al) Jitter ting, 100 ms max., ead Ω, (limited BW in 1 M ne and amplitude requ Available at lower time 5 GS/s N/A	ch channel Ω), BNC input, limited irements apply at low /div settings 5 GS/s	frequencies) 5 GS/s	5 GS/s
Sample Rate and Delay Time Accuracy rigger and Interpolator Jitter Time Interval Accuracy Channel to Channel Deskew Range External Sample Clock Roll Mode Acquisition System Single-Shot Sample Rate/Ch Interleaved Sample Rate (2 Ch) Random Interleaved Sampling (RIS) Trigger Rate	Equal to Clock Ac ≤ 3 ps rms (typica Clock Accuracy + ±9 x time/div set DC to 1 GHz; 50 (minimum rise tin User selectable. / 2.5 GS/s 5 GS/s 200 GS/s 125,000 waveform	scuracy al) Jitter ting, 100 ms max., ead Ω, (limited BW in 1 M ne and amplitude requ Available at lower time 5 GS/s N/A	ch channel Ω), BNC input, limited irements apply at low /div settings 5 GS/s	frequencies) 5 GS/s	5 GS/s
Sample Rate and Delay Time Accuracy rigger and Interpolator Jitter Time Interval Accuracy Channel to Channel Deskew Range External Sample Clock Roll Mode Acquisition System Single-Shot Sample Rate/Ch Interleaved Sample Rate (2 Ch) Random Interleaved Sampling (RIS) rigger Rate Sequence Time Stamp Resolution	Equal to Clock Ac ≤ 3 ps rms (typica Clock Accuracy + ±9 x time/div set DC to 1 GHz; 50 (minimum rise tin User selectable. / 2.5 GS/s 5 GS/s 200 GS/s 125,000 waveforn 1 ns	scuracy al) Jitter ting, 100 ms max., ead Ω, (limited BW in 1 M ne and amplitude requ Available at lower time 5 GS/s N/A	ch channel Ω), BNC input, limited irements apply at low /div settings 5 GS/s	frequencies) 5 GS/s	5 GS/s
Sample Rate and Delay Time Accuracy rigger and Interpolator Jitter Time Interval Accuracy Channel to Channel Deskew Range External Sample Clock Roll Mode Acquisition System Single-Shot Sample Rate/Ch Interleaved Sample Rate (2 Ch) Random Interleaved Sampling (RIS) Trigger Rate Sequence Time Stamp Resolution Ainimum Time Between	Equal to Clock Ac ≤ 3 ps rms (typica Clock Accuracy + ±9 x time/div set DC to 1 GHz; 50 (minimum rise tin User selectable. / 2.5 GS/s 5 GS/s 200 GS/s 125,000 waveform	scuracy al) Jitter ting, 100 ms max., ead Ω, (limited BW in 1 M ne and amplitude requ Available at lower time 5 GS/s N/A	ch channel Ω), BNC input, limited irements apply at low /div settings 5 GS/s	frequencies) 5 GS/s	5 GS/s
Sample Rate and Delay Time Accuracy rigger and Interpolator Jitter Time Interval Accuracy Channel to Channel Deskew Range External Sample Clock Roll Mode Acquisition System Single-Shot Sample Rate/Ch Interleaved Sample Rate (2 Ch) Random Interleaved Sampling (RIS) Trigger Rate Sequence Time Stamp Resolution Vinimum Time Between	Equal to Clock Ac ≤ 3 ps rms (typica Clock Accuracy + ±9 x time/div set DC to 1 GHz; 50 (minimum rise tin User selectable. / 2.5 GS/s 5 GS/s 200 GS/s 125,000 waveford 1 ns 8 μs	scuracy al) Jitter ting, 100 ms max., ead Ω, (limited BW in 1 M ne and amplitude requ Available at lower time 5 GS/s N/A	ch channel Ω), BNC input, limited irements apply at low /div settings 5 GS/s N/A	frequencies) 5 GS/s	5 GS/s 10 GS/s
Sample Rate and Delay Time Accuracy Trigger and Interpolator Jitter Time Interval Accuracy Channel to Channel Deskew Range External Sample Clock Roll Mode Acquisition System Single-Shot Sample Rate/Ch Interleaved Sample Rate (2 Ch) Random Interleaved Sampling (RIS) Trigger Rate Sequence Time Stamp Resolution Minimum Time Between Sequential Segments	Equal to Clock Ac ≤ 3 ps rms (typica Clock Accuracy + ±9 x time/div set DC to 1 GHz; 50 (minimum rise tin User selectable. / 2.5 GS/s 5 GS/s 200 GS/s 125,000 waveford 1 ns 8 μs	scuracy al) Jitter ting, 100 ms max., ead Ω, (limited BW in 1 M ne and amplitude requ Available at lower time 5 GS/s N/A ms/second	ch channel Ω), BNC input, limited irements apply at low /div settings 5 GS/s N/A	frequencies) 5 GS/s 10 GS/s	5 GS/s 10 GS/s
Sample Rate and Delay Time Accuracy Trigger and Interpolator Jitter Time Interval Accuracy Channel to Channel Deskew Range External Sample Clock Roll Mode Acquisition System Single-Shot Sample Rate/Ch Interleaved Sample Rate (2 Ch) Random Interleaved Sampling (RIS) Trigger Rate Sequence Time Stamp Resolution Jinimum Time Between Sequential Segments Acquisition Memory Options	Equal to Clock Ac ≤ 3 ps rms (typica Clock Accuracy + ±9 x time/div set DC to 1 GHz; 50 (minimum rise tin User selectable. / 2.5 GS/s 200 GS/s 125,000 waveford 1 ns 8 μs Max. Acquisition	scuracy al) Jitter ting, 100 ms max., eao Ω, (limited BW in 1 M ne and amplitude requ Available at lower time 5 GS/s N/A ms/second	ch channel Ω), BNC input, limited irements apply at low /div settings 5 GS/s N/A	frequencies) 5 GS/s 10 GS/s Segments (Seque	5 GS/s 10 GS/s
Sample Rate and Delay Time Accuracy Trigger and Interpolator Jitter Time Interval Accuracy Channel to Channel Deskew Range External Sample Clock Roll Mode Acquisition System Single-Shot Sample Rate/Ch Interleaved Sample Rate (2 Ch) Random Interleaved Sampling (RIS) Trigger Rate Sequence Time Stamp Resolution Jinimum Time Between Sequential Segments Acquisition Memory Options Standard Option M	Equal to Clock Ac ≤ 3 ps rms (typica Clock Accuracy + ±9 x time/div set DC to 1 GHz; 50 (minimum rise tin User selectable. / 2.5 GS/s 200 GS/s 125,000 waveford 1 ns 8 μs Max. Acquisition 2M/4M 4M/8M	scuracy al) Jitter ting, 100 ms max., eao Ω, (limited BW in 1 M ne and amplitude requ Available at lower time 5 GS/s N/A ms/second	ch channel Ω), BNC input, limited irements apply at low /div settings 5 GS/s N/A	frequencies) 5 GS/s 10 GS/s Segments (Seque	5 GS/s 10 GS/s
Sample Rate and Delay Time Accuracy Trigger and Interpolator Jitter Time Interval Accuracy Channel to Channel Deskew Range External Sample Clock Roll Mode Acquisition System Single-Shot Sample Rate/Ch Interleaved Sample Rate (2 Ch) Random Interleaved Sampling (RIS) Trigger Rate Sequence Time Stamp Resolution Minimum Time Between Sequential Segments Acquisition Memory Options Standard	Equal to Clock Act ≤ 3 ps rms (typica Clock Accuracy + ±9 x time/div set DC to 1 GHz; 50 (minimum rise tin User selectable. / 2.5 GS/s 200 GS/s 125,000 waveford 1 ns 8 μs Max. Acquisition 2M/4M	scuracy al) Jitter ting, 100 ms max., eao Ω, (limited BW in 1 M ne and amplitude requ Available at lower time 5 GS/s N/A ms/second	ch channel Ω), BNC input, limited irements apply at low /div settings 5 GS/s N/A	frequencies) 5 GS/s 10 GS/s Segments (Seque 500 1,000	5 GS/s 10 GS/s
Sample Rate and Delay Time Accuracy Trigger and Interpolator Jitter Time Interval Accuracy Channel to Channel Deskew Range External Sample Clock Roll Mode Acquisition System Single-Shot Sample Rate/Ch Interleaved Sample Rate (2 Ch) Random Interleaved Sampling (RIS) Trigger Rate Sequence Time Stamp Resolution Minimum Time Between Sequential Segments Acquisition Memory Options Standard Option M Option L Option VL	Equal to Clock Ac ≤ 3 ps rms (typica Clock Accuracy + ±9 x time/div set DC to 1 GHz; 50 (minimum rise tin User selectable. / 2.5 GS/s 200 GS/s 125,000 waveford 1 ns 8 μs Max. Acquisition 2M/4M 4M/8M 8M/16M	scuracy al) Jitter ting, 100 ms max., eao Ω, (limited BW in 1 M ne and amplitude requ Available at lower time 5 GS/s N/A ms/second	ch channel Ω), BNC input, limited irements apply at low /div settings 5 GS/s N/A	frequencies) 5 GS/s 10 GS/s Segments (Seque 500 1,000 5,000	5 GS/s 10 GS/s
Sample Rate and Delay Time Accuracy Trigger and Interpolator Jitter Time Interval Accuracy Channel to Channel Deskew Range External Sample Clock Roll Mode Acquisition System Single-Shot Sample Rate/Ch Interleaved Sample Rate (2 Ch) Random Interleaved Sampling (RIS) Trigger Rate Sequence Time Stamp Resolution Minimum Time Between Sequential Segments Acquisition Memory Options Standard Option M Option L Option VL	Equal to Clock Ac ≤ 3 ps rms (typica Clock Accuracy + ±9 x time/div set DC to 1 GHz; 50 (minimum rise tin User selectable. / 2.5 GS/s 200 GS/s 125,000 waveford 1 ns 8 μs Max. Acquisition 2M/4M 4M/8M 8M/16M 12M/24M	al) Jitter ting, 100 ms max., eao Ω, (limited BW in 1 M ne and amplitude requ Available at lower time 5 GS/s N/A ms/second	ch channel Ω), BNC input, limited irements apply at low /div settings 5 GS/s N/A 2 Ch/1Ch in 6051A)	5 GS/s 10 GS/s Segments (Seque 500 1,000 5,000 10,000 WR6100A	5 GS/s 10 GS/s ence Mode)
Sample Rate and Delay Time Accuracy Trigger and Interpolator Jitter Time Interval Accuracy Channel to Channel Deskew Range External Sample Clock Roll Mode Acquisition System Single-Shot Sample Rate/Ch Interleaved Sample Rate (2 Ch) Random Interleaved Sampling (RIS) Trigger Rate Sequence Time Stamp Resolution Vinimum Time Between Sequential Segments Acquisition Memory Options Standard Option M Option L Option VL Acquisition Processing Time Resolution (min, Single-shot)	Equal to Clock Ac ≤ 3 ps rms (typica Clock Accuracy + ±9 x time/div set DC to 1 GHz; 50 (minimum rise tin User selectable. / 2.5 GS/s 200 GS/s 125,000 waveform 1 ns 8 μs Max. Acquisition 2M/4M 4M/8M 8M/16M 12M/24M WR6030A	curacy al) Jitter ting, 100 ms max., eao Ω, (limited BW in 1 M ne and amplitude requ Available at lower time 5 GS/s N/A ms/second Points (4 Ch/2 Ch, 2 WR6050A 200 ps (5 GS/s)	ch channel Ω), BNC input, limited irements apply at low /div settings 5 GS/s N/A 2 Ch/1Ch in 6051A) WR6051A	5 GS/s 10 GS/s Segments (Seque 500 1,000 5,000 10,000 WR6100A	5 GS/s 10 GS/s ence Mode) WR6200A
Sample Rate and Delay Time Accuracy Trigger and Interpolator Jitter Time Interval Accuracy Channel to Channel Deskew Range External Sample Clock Roll Mode Acquisition System Single-Shot Sample Rate/Ch Interleaved Sample Rate (2 Ch) Random Interleaved Sampling (RIS) Trigger Rate Sequence Time Stamp Resolution Minimum Time Between Sequential Segments Acquisition Memory Options Standard Option M Option L Option VL Acquisition Processing Time Resolution (min, Single-shot) Averaging	Equal to Clock Ac ≤ 3 ps rms (typica Clock Accuracy + ±9 x time/div set DC to 1 GHz; 50 (minimum rise tin User selectable. / 2.5 GS/s 200 GS/s 125,000 waveform 1 ns 8 μs Max. Acquisition 2M/4M 4M/8M 8M/16M 12M/24M WR6030A Summed and cor	curacy al) Jitter ting, 100 ms max., ead Ω, (limited BW in 1 M ne and amplitude requ Available at lower time 5 GS/s N/A ms/second Points (4 Ch/2 Ch, 2 WR6050A 200 ps (5 GS/s) ttinuous averaging to 2	ch channel Ω), BNC input, limited irements apply at low /div settings 5 GS/s N/A 2 Ch/1Ch in 6051A) WR6051A	5 GS/s 10 GS/s Segments (Seque 500 1,000 5,000 10,000 WR6100A	5 GS/s 10 GS/s ence Mode) WR6200A
Sample Rate and Delay Time Accuracy Trigger and Interpolator Jitter Time Interval Accuracy Channel to Channel Deskew Range External Sample Clock Roll Mode Acquisition System Single-Shot Sample Rate/Ch Interleaved Sample Rate (2 Ch) Random Interleaved Sampling (RIS) Trigger Rate Sequence Time Stamp Resolution Minimum Time Between Sequential Segments Acquisition Memory Options Standard Option M Option L Option VL Acquisition Processing	Equal to Clock Act ≤ 3 ps rms (typica Clock Accuracy + ±9 x time/div set DC to 1 GHz; 50 (minimum rise tim User selectable. / 2.5 GS/s 200 GS/s 125,000 waveform 1 ns 8 μs Max. Acquisition 2M/4M 4M/8M 8M/16M 12M/24M WR6030A Summed and cor From 8.5 to 11 bi	curacy al) Jitter ting, 100 ms max., eao Ω, (limited BW in 1 M ne and amplitude requ Available at lower time 5 GS/s N/A ms/second Points (4 Ch/2 Ch, 2 WR6050A 200 ps (5 GS/s)	ch channel Ω), BNC input, limited irements apply at low /div settings 5 GS/s N/A 2 Ch/1Ch in 6051A) WR6051A WR6051A million sweeps	5 GS/s 10 GS/s Segments (Seque 500 1,000 5,000 10,000 WR6100A	5 GS/s 10 GS/s ence Mode) WR6200A

Specifications

Trigger System

ingger System					
Trigger Modes	Normal, Auto, Single, Stop				
Sources	Any input channel, External, Ext/10, or Line; slope and level unique to each source, except Line				
Trigger Coupling	DC				
Pre-trigger Delay	0–100% of memory size (adjustable in 1% increments, or 100 ns)				
Post-trigger Delay	Up to 10,000 divisions in real time mode, limited at slower time/div settings in roll mode				
Hold-off	2 ns to 20 s or 1 to 1,000,000,000 events				
Internal Trigger Level Range	±4.1 div from cente	er (typical)			
	WR6030A	WR6050A	WR6051A	WR6100A	WR6200A
Trigger Sensitivity with Edge Trigger (Ch 1-4 + external)			2 div @ < 500 MHz, 1 div @ < 350 MHz		
Max. Trigger Frequency with	350 MHz	500 MHz	500 MHz	750 MHz	750 MHz
SMART Trigger [®] (Ch 1-4 + external)	@ ≥ 10 mV	@ ≥ 10 mV	@ ≥ 10 mV	@ ≥ 10 mV	@ ≥ 10 mV
Trigger Level DC Accuracy	±4% full scale ±2 n	nV (typical)			
External trigger range	EXT/10 \pm 4 V; EXT \pm	400 mV			
Basic Triggers					
Edge	Triggers when signa	al meets slope (positiv	ve or negative) and lev	el condition.	
SMART Triggers					
State or Edge Qualified	Triggers on any inpu	ut source only if a def	ined state or edge occ	curred on another inpu	ut source.
	Delay between sou	rces is selectable by t	ime or events.		
Dropout			n selected time betwe		
Pattern	Logic combination (AND, NAND, OR, NO	R) of 5 inputs (4 chan	nels and external trigg	ger input – 2 Ch+EX
	on WR6051A). Each	n source can be high,	low, or don't care. The	high and low level ca	an be selected
	independently. Trigg	gers at start or end of	the pattern.		
SMART Triggers with Exclusion	Technology				
Glitch and Pulse Width		or pegative glitches y	with widths selectable	from 600 ns to 20 s	or on intermittent
	Triggers on positive or negative glitches with widths selectable from 600 ps to 20 s or on intermittent faults (subject to bandwidth limit of oscilloscope).				
Signal or Pattern Interval		s selectable between			
Timeout (State/Edge Qualified)	Triggers on any source if a given state (or transition edge) has occurred on another source. Delay between sources is 2 ns to 20 s, or 1 to 99,999,999 events.				
Exclusion Triggering			g the normal width or		
Automatic Setup					
Auto Setup	Automatically sets t	imebase, trigger, and	sensitivity to display a	a wide range of repet	itive signals.
Vertical Find Scale	Automatically sets timebase, trigger, and sensitivity to display a wide range of repetitive signals. Automatically sets the vertical sensitivity and offset for the selected channels to display a waveform with				
	maximum dynamic				
Probes					
Probes	One PP007-WR-1 n	er channel standard: (Optional passive and a	active probes available	9.
Probe System; ProBus	One PP007-WR-1 per channel standard; Optional passive and active probes available. Automatically detects and supports a variety of compatible probes.				
Scale Factors	1	inually selected, depe	- <u> </u>		
Color Waveform Display					
Туре	Color 8.4" flat-panel	TFT-LCD with high re	solution touch screen		
Resolution	SVGA; 800 x 600 pixels				
Number of Traces	Display a maximum	of 8 traces. Simultan	eously display channe	l, zoom, memory, and	d math traces.
Grid Styles		Quad, Octal, XY, Singl			
Waveform Styles	Sample dots joined				
Analog Persistence Display					
Analog and Color-Graded Persistence	Variable saturation l	evels; stores each tra	ce's persistence data	in memory.	
Persistence Selections	Select analog, color, or three-dimensional.				
Trace Selection	<u> </u>	e on all or any combin			
Persistence	Aging time select from 500 ms to infinity				

	Display up to 4 Zoom/Math traces
CPU	
Processor	Intel [®] Celeron, [®] 2.0 GHz or better.
Processing Memory	256 MB on Std and M option; 512 MB with L and VL options
Operating System	Microsoft Windows® XP Professional
Internal Waveform Memory	
	M1, M2, M3, M4 Internal Waveform Memory (store full-length waveform with 16 bits/data point) or store to any number of files limited only by data storage media.
Setup Storage	
Front Panel and Instrument Status	Store to the internal hard drive, over the network, or to a USB-connected peripheral device.
Interface	
Remote Control	Via Windows Automation, or via LeCroy Remote Command Set
GPIB Port (Optional)	Supports IEEE – 488.2
Ethernet Port	10/100Base-T Ethernet interface (RJ-45 connector)
USB Ports	5 USB 2.0 ports (one on front of instrument) supports Windows-compatible devices.
External Monitor Port	Standard 15-pin D-Type SVGA-compatible DB-15; connect a second monitor to use
	dual-monitor display mode.
Parallel Port	Standard DB-25
Serial Port	DB-9 RS-232 port (not for remote oscilloscope control)
Auxiliary Input	
Signal Types	Selected from External Trigger or External Clock input on front panel
Coupling	50 Ω: DC, 1 MΩ: AC, DC, GND
Maximum Input Voltage	50 Ω : 5 Vrms, 1 M Ω : 250 V max. (Peak AC: \leq 10 kHz + DC)
Auxiliary Output	
Signal Type	Trigger Enabled, Trigger Output. Pass/Fail, or Off
Output Level	TTL, ≈3.3 V
Connector Type	BNC, located on rear panel
General	
Auto Calibration	Ensures specified DC and timing accuracy is maintained for 1 year minimum.
Calibrator	Output available on front panel connector provides a variety of signals for probe calibration and compensation.
Power Requirements	100–240 V rms at 50/60 Hz; 115 V rms (±10%) at 400 Hz, Automatic AC Voltage Selection Installation Category: 300V CAT II; Max. Power Consumption: 400 VA/400 W; 350 VA/350 W for WaveRunner 6051A
Environmental	
Temperature: Operating	+5 °C to 40 °C
Temperature: Non-Operating	-20 °C to +60 °C
Humidity: Operating	5% to 80% RH (non-condensing) up to 30 °C, Upper limit derates linearly to 45% RH (non-condensing) at 40 °C
Humidity: Non-Operating	5% to 95% RH (non-condensing) as tested per MIL-PRF-28800F
Altitude: Operating	3,048 m (10,000 ft.) max at ≤ 25 °C
Altitude: Non-Operating	12,190 m (40,000 ft.)
Physical	
Dimensions (HWD)	211 mm x 355 mm x 363 mm (excluding feet) 8.3" x 13.8" x 14.3"
Net Weight	10 kg. (22 lbs.), excluding printer
Shipping Weight	less than 13.6 kg. (30 lbs.)
Certifications	
	CE Compliant, UL and cUL listed; Conforms to EN 61326-1, EN 61010-1, UL 3111-1,
	and CSA C22.2 No. 1010.1.
Warranty and Service	and CSA C22.2 No. 1010.1.

Ordering Information

WaveRunner 4-Channel/2-Channel Oscilloscopes	Product Code
2 GHz, 4 Ch, 5 GS/s, 2 Mpts/Ch (10 GS/s, 4 Mpts/2 Ch) Color with Windows® XP Pro	WaveRunner 6200A
1 GHz, 4 Ch, 5 GS/s, 2 Mpts/Ch (10 GS/s, 4 Mpts/2 Ch) Color with Windows XP Pro	WaveRunner 6100A
500 MHz, 4 Ch, 5 GS/s, 2 Mpts/Ch (4 Mpts/2 Ch) Color with Windows XP Pro	WaveRunner 6050A
500 MHz, 2 Ch, 5 GS/s, 2 Mpts/Ch (4 Mpts/1 Ch) Color with Windows XP Pro	WaveRunner 6051A
350 MHz, 4 Ch, 2.5 GS/s, 2 Mpts/Ch (5 GS/s, 4 Mpts/2 Ch) Color with Windows XP Pro	WaveRunner 6030A
Included with Standard Configuration	
÷10 HiZ 500 MHz Passive Probe (Total of 1 Per Channel) Getting Started Manual	PP007-WR-1
CD-ROM containing Operator's Manual, Remote Control Manual, and Automation Manual	
CD-ROMs containing Utility Software, and Norton Antivirus Software (1 year subscription)	
Optical 3-button Wheel Mouse – USB	
Standard Ports; 10/100Base-T Ethernet, USB 2.0 (5), Parallel, RS-232, SVGA Video out, Audio in/out	
Protective Front Cover	
Standard Commercial Calibration and Performance Certificate	
3-Year Warranty	
Memory Options	
24 Mpts max. when interleaved, 12 Mpts/Ch (for use with 4 Ch WaveRunner)	-VL
16 Mpts max. when interleaved, 8 Mpts/Ch (for use with 4 Ch WaveRunner)	-L
8 Mpts max. when interleaved, 4 Mpts/Ch (for use with 4 Ch WaveRunner)	-M
24 Mpts max., 2 Ch 12 Mpts/Ch Memory Option	-VL2
16 Mpts max., 2 Ch 8 Mpts/Ch Memory Option	-L2
8 Mpts max., 2 Ch 4 Mpts/Ch Memory Option	-M2
Software Options	
Disk Drive Measurement Software Package	WR6-DDM2
Digital Filter Software Package	WR6-DFP2
Ethernet Test Software Package (WR6200A Only)	WR6-ENET
Jitter and Timing Analysis Software Package	WR6-JTA2
PowerMeasure Analysis Software Package	WR6-PMA2
Serial Data Mask Software Package	WR6-SDM*
USB 2.0 Compliance Test Software Package (WR6200A Only)	WR6-USB2

Intermediate Math Software Package	WR6-XWAV
Advanced Math Software Package	WR6-XMATH
Advanced Customization Software Package	WR6-XDEV
Value Analysis Software Package (Includes XWAV and JTA2)	WR6-XVAP
Master Analysis Software Package	WR6-XMAP
(Includes JTA2, XMATH and XDEV)	
Processing Web Editor Software Package	WR6-XWEB
for Functions and Parameters	

*WR6200A model oscilloscope required for full mask testing capability, lower bandwidth models will have reduced capabilities.

Hardware and Software Options

32 Digital Channel Oscilloscope Mixed Signal Option	MS-32*
CANbus Trigger, Decode and Measure/Graph	CANbus TDM
Testing Option	
CANbus Trigger and Decode Testing Option	CANbus TD

*MS-32 is compatible with WR6000A 4-channel model oscilloscopes only.



1-800-5-LeCroy www.lecroy.com

Local sales offices are located throughout the world. To find the most convenient one visit www.lecroy.com

Probes and Probe Accessories Options	Product Code
2.5 GHz, 0.7 pF Active Probe (÷10), Small Form Factor	HFP2500
1.5 GHz, 0.7 pF Active Probe (÷10), Small Form Factor	HFP1500
1 GHz, 0.7 pF Active Probe (÷10), Small Form Factor	HFP1000
WaveLink 4 GHz Differential Probe	D300A-AT*
with Adjustable Tip Module	
WaveLink 4 GHz, 5 V Differential Probe	D350ST*
with Small Tip Module	
WaveLink ProBus Probe Body	WL300
1 GHz Active Differential Probe (÷1, ÷10, ÷20)	AP034
500 MHz Active Differential Probe (x10, ÷1, ÷10 or ÷100)	AP033
30 A; 100 MHz Current Probe – AC/DC; 30 A rms;	CP031
50 A Peak Pulse	
30 A; 50 MHz Current Probe - AC/DC; 30 A rms;	CP030
50 A Peak Pulse	
30 A; 50 MHz Current Probe – AC/DC; 30 A rms Peak;	AP015
50 A Peak Pulse	
150 A; 10 MHz Current Probe – AC/DC; 150 A rms;	CP150**
500 A Peak Pulse	
500 A; 2 MHz Current Probe – AC/DC; 500 A rms;	CP500
700 A Peak Pulse	1 D D 0 0 5
1,400 V, 100 MHz Differential Probe	ADP305
1,400 V, 20 MHz Differential Probe	ADP300
Basic Adapter Kit for PP007-WR-1 and PP007-WS-1	PK701
Advanced Adapter Kit for PP007-WR-1 and PP007-WS-1	PK702
SMD Adapter Kit for PP007-WR-1 and PP007-WS-1	PK703
Microclip Kit for PP007-WR-1 and PP007-WS-1	PK704
1 Ch 100 MHz Differential Amplifier	DA1855A
with Precision Voltage Source	

*For a complete probe, order a WL300 Probe Body with the Probe Tip Module. Only applicable with the WR6200A model oscilloscope.

**Limited availability.

Hardware Options and Accessories

Taraware options and Accessories	
IEEE-488 GPIB Interface Upgrade	WR6-GPIB
Graphics Printer	WR6A-GP
Removable Hard Drive	WR6-RHD
CD-RW Upgrade	WR6-CDRW
Graphic Printer Retrofit	WR6A-RK-GP
USB Floppy Drive	WR6-FLPY
Hard Transit Case	WR6-HARD
Soft Carrying Case	WR6-SOFT
Rackmount, 6U High	WR6-RACK
Accessory Pouch	WR6-POUCH
Mini Keyboard, USB	WR6-KBD
USB Flash Memory	MEM-USB
Video Trigger Module	VT75
Oscilloscope Cart with Additional Shelf and Drawer	OC1024
Oscilloscope Cart	OC1021
Ethernet Compliance Fixture for 10Base-T	TF-10BT
Ethernet Compliance Fixture for 100Base-T/1000Base-T	TF-ENET
[Includes a Set of 2 Test Fixtures Signals on	
Twisted Pair Cables (UTP)]	
Telecom Adapter Kit 100 Ω Bal., 120 Ω Bal., 75 Ω Unbal.	TF-ET
USB 2.0 Testing Compliance Test Fixture	TF-USB

Customer Service

LeCroy oscilloscopes are designed, built, and tested to ensure high reliability. In the unlikely event you experience difficulties, our digital oscilloscopes are fully warranted for three years.

This warranty includes: • No charge for return shipping • Long term 7-year support • Upgrade to latest software at no charge