

WaveRunner 6000 Series

6030 6050/6051 6100 6200

LEADING FEATURES

- 350 MHz, 500 MHz, 1 GHz and 2 GHz Bandwidths
- 5 GS/s on All Channels (10 GS/s on 2 Ch for 6100 and 6200)
- 1 Mpts on All Channels, Expandable to 12/24 Mpts
- Compact and Lightweight
- Easy User Interface
- New 2.5 mm Passive Probe
- Touch Screen Interface
- Vertical Controls for Each Channel
- USB 2.0 and 802.3xx LAN Ports
- Open Windows 2000

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Excellent Performance, Great Price, Easy to Use

LeCroy's WaveRunner® 6000 Series is built to be the world's best everyday bench oscilloscope. It offers the best acquisition specifications, a user interface that makes it easy to perform the most common oscilloscope functions, industryleading long term support and a "feel" that makes the oscilloscope a pleasure to drive.

For the first time, LeCroy has combined the type of high performance front amplifier, ADC, memory and triggering used in more expensive oscilloscopes and designed it all into a very affordable package. The WaveRunner 6000 Series also introduces a user interface that makes viewing and measuring signals simple and fast.

With the WaveRunner 6000 Series, all viewing controls and basic oscilloscope functions are easily at hand using front panel knobs. You get fast views and can zoom in to see details on the bright touch panel color screen. Or use the simple and intuitive controls to call up exactly the measurements you need.

The WaveRunner 6000 Series includes an industry-leading signal acquisition path, which provides a 5 GS/s ADC on every

channel and 1 Mbyte of standard memory. No need to worry about the undersampling or aliasing caused by slower ADCs or shorter memories on other oscilloscopes.

The WaveRunner 6000 Series comes standard with the new PP007 500 MHz passive probe (one per channel). This 2.5 mm high impedance probe offers excellent characteristics for probing everyday signals. LeCroy also offers a wide range of optional single-ended and differential active probes, current probes, optical to electrical (O/E) converters and differential amplifiers.

Lastly, we decided to architect the oscilloscope so that users could add just the functionality they want. There are options for testing power devices, serial data mask testing, jitter and timing analysis, and for a wide variety of probes, O/E converters and other application specific devices.

Altogether, the WaveRunner 6000 Series sets a new industry standard for high performance at low price in everyday bench oscilloscopes.





Specifications

6030 350 MHz 1 ns 4	50 Ω: 5 Vrm > 40 dB (8 bits; up 50 Ω: 2 mV/div—1 V/c ±1.0% of full scale (typic 5	6051 500 MHz 750 ps 2 20 MHz; 200 MHz 0 pF (10 MΩ 9.5 pF using PP00 50 Ω: DC, 1MΩ: AC, DC, GND s, 1 MΩ: 250 Vmax (Peak AC: ≤ 5 @ <100MHz (> 30 dB @ full band to 11 with enhanced resolution div fully variable; 1 MΩ: 2 mV—1 cal), ±1.5% of full scale with V/Di 10 Ω:±400 mV @ 2–4.95 mV/div ±13 V@ 5 100 mV/div	kHz + DC) dwidth) n (ERES)	6200 2 GHz 225 ps 4
1 ns	750 ps 4 1MΩ < 2 50 Ω: 5 Vrm > 40 dB @ 8 bits; up 50 Ω: 2 mV/div—1 V/c ±1.0% of full scale (typic 5	750 ps 2 20 MHz; 200 MHz 0 pF (10 MΩ 9.5 pF using PP00 50 Ω: DC, 1MΩ: AC, DC, GND s, 1 MΩ: 250 Vmax (Peak AC: ≤ 5 @ < 100MHz (> 30 dB @ full band to 11 with enhanced resolution tio 11 with enhanced resolution div fully variable; 1 MΩ: 2 mV—1 (al.) ±1.5% of full scale with V/Di 50 Ω: ±400 mV @ 2–4.95 mV/div	400 ps 4 07 probe) kHz + DC) dwidth) n (ERES)	225 ps
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	4 1MΩ < 2 50 Ω: 5 Vrm > 40 dB (6 8 bits; up 50 Ω: 2 mV/div—1 V/c ±1.0% of full scale (typic 5	2 20 MHz; 200 MHz 0 pF (10 M Ω 9.5 pF using PP00 50 Ω : DC, 1M Ω : AC, DC, GND s, 1 M Ω : 250 Vmax (Peak AC: \leq 5 @ < 100MHz (> 30 dB @ full band to 11 with enhanced resolution div fully variable; 1 M Ω : 2 mV—1 cal), \pm 1.5% of full scale with V/Di io Ω : \pm 400 mV @ 2–4.95 mV/div	4)7 probe) kHz + DC) dwidth) n (ERES)	
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	> 40 dB @ 8 bits; up 50 £: 2 mV/div—1 V/c ±1.0% of full scale (typic 5	@ < 100 MHz (> 30 dB @ full band to to 11 with enhanced resolution div fully variable; 1 M Ω : 2 mV—1 cal), ±1.5% of full scale with V/Di 50 Ω : ±400 mV @ 2–4.95 mV/div	dwidth) n (ERES)	
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	±1.0% of full scale (typic 5	cal), ±1.5% of full scale with V/Di 50 Ω: ±400 mV @ 2–4.95 mV/div	0 V/div fully variable	
	5	50 Ω: ±400 mV @ 2-4.95 mV/div	/	
			$v \ge 10 \text{ mV}$ (warranted)	
		±1 V @ 5–100 mV/div ±10 V @ 102 mV/div – 1V/div		
		MΩ: ±400 mV @ 2–4.95 mV/div		
		±1 V @ 5–100 mV/div		
		±10 V @ 102 mV/div - 1V/div		
		±100 V @ 1.02V/div – 10V/div		
	±(1	.5% + 0.5% of offset value +1 m	V)	
		BNC or Probus®		
Inter	nal timebase common to all inn	ut channels; an external clock m	ay be applied at the auxiliary	input
		Equal to Clock Accuracy		
		· · · ·		
	±9 X time		hannel.	
	User select	table. Available at lower time/div	settings.	
2565/c	5 GS/s	5 65/6	5 65/4	5 GS/s
				10 GS/s
10/11	14/7		10 (3) 5	10 (3)/3
Мах	Acquisition Points (4 Ch / 2 Cl		Segments (Seguence Mod	e)
	•		500	
	2M / 4M		500	
	4M / 8M		1,000	
	8M / 16M		5,000	
	12M / 24M		10,000	
6030	6050	6051	6100	6200
0050		0031		
	1 1 1	d continuous averaging to 1 mill		(10 (3/3)
	Livelope,		sweeps	
		Normal, Auto, Single, Stop		
	Any input channel, Extern		I unique to each source	
			5	
	2 ns t		ents	
		±4.1 div from center (typical)		
6030	6050	6051	6100	6200
2 div @ < 350 MHz;	2 div @ < 500 MHz;	2 div @ < 500 MHz;	2 div @ < 1 GHz	2 div @ < 2 GHz;
1 div @ < 250 MHz	1 div @ < 350 MHz	1 div @ < 350 MHz	1 div @ < 750 MHz	1 div @ < 1.8 GHz
350 MHz Max.	500 MHz Max.	500 MHz Max.	750 MHz Max.	750 MHz Max.
@ ≥ 10 mV	@ ≥ 10 mV		@ ≥ 10 mV	@ ≥ 10 mV
		EX1/10 ±4V; EXT ±400mV		
	Triggers when signal n	neets slope (positive or negative) and level condition	
	Triggory on any institution	ly if a defined state and de-	urrad on another in	
		ut for longer than selected time		
			CON E 110 0110 EV 31	ach source can be high,
	2.5 GS/s N/A Max. 6030 6030 2 div @ < 350 MHz; 1 div @ < 250 MHz 350 MHz Max. @ ≥ 10 mV	Real time: 200 ps/div—10 \leq 5] CI \pm 9 X time DC to 1 GHz; 50 Qo or 1M Qp BI Minimum rise time ar User select 2.5 GS/s N/A N/A N/A Max. Acquisition Points (4 Ch / 2 C 1M / 2M 2.5 GS/s N/A N/A N/A Max. Acquisition Points (4 Ch / 2 C 1 M/ 2M 2M / 4M 4Max. Acquisition Points (4 Ch / 2 C 1M / 2M 2M / 4M Max. Acquisition Points (4 Ch / 2 C 1M / 2M 2M / 4M Max. Acquisition Points (4 Ch / 2 C 1M / 2M 2M / 4M 6030 6030 Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2" Colspan="2"Colspan="2"Colspan="2" <td< td=""><td>Real time: 200 ps/div.—10 s/div, RIS mode: to 20 ps/div, Rol ≤ 5 ppm @ 25 °C (≤ 10 ppm @ 5-40°) Clock Accuracy + Jitter Noise Floor Equal to Clock Accuracy ≤ 3 ps ms ±9 X time/div setting, 100 ms max, each c DC to 1 GHz; 50 Ω or 1M Ω BNC input. Limited to 2 channel of Minimum rise time and amplitude requirements apply User selectable. Available at lower time/div 2.5 GS/s 5 GS/s N/A N/A N/A N/A 125,000 waveforms/second 1 ns 8 µs Max. Acquisition Points (4 Ch / 2 Ch; 2 Ch / 1 Ch in 6051) 1M / 2M 200 ps (5 GS/s) 5 0 11 bits vertical resolutio Envelope, Floor, or Roof for up to 1 millon 12M / 24M 6030 6050 6051 200 ps (5 GS/s) Summed and continuous averaging to 1 mill From 8.5 to 11 bits vertical resolutio Envelope, Floor, or Roof for up to 1 million Linear or SinX/X Normal, Auto, Single, Stop Any input channel, External, Ext/10, or Line; slope and leve 0-100% of memory size (adjustable in 1% increm 10,000 divisions in real time mode, limited at slower time/div<</td><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td></td<>	Real time: 200 ps/div.—10 s/div, RIS mode: to 20 ps/div, Rol ≤ 5 ppm @ 25 °C (≤ 10 ppm @ 5-40°) Clock Accuracy + Jitter Noise Floor Equal to Clock Accuracy ≤ 3 ps ms ±9 X time/div setting, 100 ms max, each c DC to 1 GHz; 50 Ω or 1M Ω BNC input. Limited to 2 channel of Minimum rise time and amplitude requirements apply User selectable. Available at lower time/div 2.5 GS/s 5 GS/s N/A N/A N/A N/A 125,000 waveforms/second 1 ns 8 µs Max. Acquisition Points (4 Ch / 2 Ch; 2 Ch / 1 Ch in 6051) 1M / 2M 200 ps (5 GS/s) 5 0 11 bits vertical resolutio Envelope, Floor, or Roof for up to 1 millon 12M / 24M 6030 6050 6051 200 ps (5 GS/s) Summed and continuous averaging to 1 mill From 8.5 to 11 bits vertical resolutio Envelope, Floor, or Roof for up to 1 million Linear or SinX/X Normal, Auto, Single, Stop Any input channel, External, Ext/10, or Line; slope and leve 0-100% of memory size (adjustable in 1% increm 10,000 divisions in real time mode, limited at slower time/div<	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $

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SMART Triggers® vith Exclusion Technology	
litch and Pulse Width	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).
gnal or Pattern Interval	Triggers on intervals selectable between 2 ns and 20 s.
meout (State/Edge Qualified)	Triggers on any source if a given state (or transition edge) has occurred on another source.
	Delay between sources is 10 ns to 20 s, or 1 to 99,999,999 events.
clusion Triggering	Trigger on intermittent faults by specifying the normal width or period.
utomatic Setup	
uto Setup	Automatically sets timebase, trigger, and sensitivity to display a wide range of repetitive signals
ertical Find Scale	Automatically sets the vertical sensitivity and offset for the selected channels to display a waveform with maximum dynamic range.
robes	
robes	One PP007 per channel standard; Optional passive and active probes available
obes obe System; Probus	Automatically detects and supports a variety of compatible probes
ale Factors	Automatically access and apports a validity of comparison probes
	reconductary or manality beleeced appending on probe about
olor Waveform Display	
rpe esolution	Color 8.4" flat-panel TFT-LCD with high resolution touch screen SVGA; 800x600 pixels
eal Time Clock	Dates, hours, minutes, seconds displayed with waveform. Accurate to ±50 ppm. SNTP support to synchronize to precision internet clocks.
umber of Traces	Dates, nours, minutes, seconds displayed with waveform. Accurate to ±50 ppm. SNTP support to synchronize to precision internet clocks. Display a maximum of 8 traces. Simultaneously display channel, zoom, memory, and math traces.
rid Styles	Auto, Single, Dual, Quad, Octal, XY, Single + XY, Dual + XY
aveform Styles	Sample dots joined or dots only
,	
nalog Persistence Display	
nalog and Color-Graded Persistence	Variable saturation levels; stores each trace's persistence data in memory
ace Selection	Select analog, color, or three-dimensional
ersistence	Activate persistence on all or any combination of traces Aging Time Select from 500 ms to infinity
veeps Displayed	All accumulated, or all accumulated with last trace highlighted
	יווי מככמה מומוכט, סו מוו מככמה מומוכט אימי ומזכ נומכל חוקרוווקרווכט
oom Expansion Traces	
	Display up to 4 Zoom/Math traces.
PU	
rocessor	Intel Celeron 1.7 GHz or better
ocessing Memory	256 MB on Std, S & M option; 512 MB with L and VL option
perating System	Microsoft Windows 2000 Professional
nternal 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
etup Storage	
ront Panel and Instrument Status	Store to the internal hard drive, over the network, or to a USB-connected peripheral device
nterface	
emote Control	Via Windows Automation, or via LeCroy Remote Command Set
PIB Port (Optional) thernet Port	Supports IEEE – 488.2 10/100Base-T Ethernet interface (RJ-45 connector)
SB Ports	5 USB 2.0 ports (one on front of instrument) supports Windows-compatible devices
kternal Monitor Port	Standard 15-pin D-Type SVGA-compatible DB-15; connect a second monitor to use dual-monitor display mode
arallel Port	Standard 15-pin 5-type 3VG-Compatible 26-15, Connect a second monitor to use data-monitor display mode Standard DB-25
erial Port	DB-9 R\$232 port (not for remote oscilloscope control)
uxiliary Input	
gnal Types	Selected from External Trigger or External Clock input on front panel
oupling Jaximum Input Voltage	50 Ω: DC, 1MΩ: AC, DC, GND 50 Ω: 5 Vrms, 1MΩ: 250 Vmax (Peak AC: ≤ 10 kHz + DC)
1 3	ט גע. גער אין
ieneral	
uto Calibration	Ensures specified DC and timing accuracy is maintained for 1-year minimum
robe Calibrator	Output available on front panel provides a variety of DC and square wave signals for probe compensation adjustment
ower	100–240 Vrms at 50/60 Hz; 115 Vrms (±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 6051
	installation Category, 5009 CAT II, Max. Power Consumption: 400 9A/400 W, 550 9A/550 W for Wavekunner 6051
nvironmental	
emperature: Operating	+5 ℃ to 40 ℃
emperature: Nonoperating	−20 °C to +60 °C
	5% to 80% RH (noncondensing) up to 30 °C; upper limit derates linearly to 45% RH (noncondensing) at 40 °C
umidity: Nonoperating	5% to 95% RH (noncondensing) as tested per MIL-PRF-28800F
umidity: Nonoperating titude: Operating	5% to 95% RH (noncondensing) as tested per MIL-PRF-28800F 3,048 m (10,000 ft.) max at ≤ 25 °C
umidity: Nonoperating ltitude: Operating	5% to 95% RH (noncondensing) as tested per MIL-PRF-28800F
umidity: Nonoperating Ititude: Operating Ititude: Nonoperating	5% to 95% RH (noncondensing) as tested per MIL-PRF-28800F 3,048 m (10,000 ft.) max at ≤ 25 °C
umidity: Nonoperating lititude: Operating lititude: Nonoperating 'hysical	5% to 95% RH (noncondensing) as tested per MIL-PRF-28800F 3,048 m (10,000 ft.) max at ≤ 25 °C
umidity: Nonoperating lititude: Operating lititude: Nonoperating 'hysical imensions (HWD)	5% to 95% RH (noncondensing) as tested per MIL-PRF-28800F 3,048 m (10,000 ft.) max at ≤ 25 °C 12,190m (40,000 ft.)
lumidity: Operating lumidity: Nonoperating lititude: Operating Physical imensions (HWD) let Weight hipping Weight	5% to 95% RH (noncondensing) as tested per MIL-PRF-28800F 3,048 m (10,000 ft.) max at ≤ 25 °C 12,190m (40,000 ft.) 211 mm x 355 mm x 363 mm (excluding handle and feet) 8.3" x 13.8" x 14.3"
umidity: Nonoperating lititude: Operating lititude: Nonoperating Physical imensions (HWD) et Weight hipping Weight	5% to 95% RH (noncondensing) as tested per MIL-PRF-28800F 3,048 m (10,000 ft.) max at ≤ 25 °C 12,190m (40,000 ft.) 211 mm x 355 mm x 363 mm (excluding handle and feet) 8.3" x 13.8" x 14.3" 10 kg (22 lbs.), excluding printer
umidity: Nonoperating lititude: Operating lititude: Nonoperating Physical imensions (HWD) et Weight	5% to 95% RH (noncondensing) as tested per MIL-PRF-28800F 3,048 m (10,000 ft.) max at ≤ 25 °C 12,190m (40,000 ft.) 211 mm x 355 mm x 363 mm (excluding handle and feet) 8.3" x 13.8" x 14.3" 10 kg (22 lbs.), excluding printer Less than 13.6 kg. (30 lbs.)
umidity: Nonoperating lititude: Operating 'hysical imensions (HWD) et Weight nipping Weight	5% to 95% RH (noncondensing) as tested per MIL-PRF-28800F 3,048 m (10,000 ft.) max at ≤ 25 °C 12,190m (40,000 ft.) 211 mm x 355 mm x 363 mm (excluding handle and feet) 8.3" x 13.8" x 14.3" 10 kg (22 lbs.), excluding printer

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WwaveRunner® **Ordering Information**

2 GHz, 5 GS/s, 1 Mpts/4 Ch; 10 GS/s, 2 Mpts/2 Ch, 4 Ch Color		WaveRunner 620	0
1 GHz, 5 GS/s, 1 Mpts/4 Ch; 10 GS/s, 2 Mpts/2 Ch, 4 Ch Color		WaveRunner 610	0
500 MHz, 5 GS/s, 1 Mpts/4 Ch; 5 GS/s, 2 Mpts/2 Ch, 4 Ch Color		WaveRunner 605	0
500 MHz, 5 GS/s, 1 Mpts/2 Ch; 5 GS/s, 2 Mpts/1 Ch, 2 Ch Color		WaveRunner 605	
350 MHz, 5 GS/s, 1 Mpts/4 Ch; 5 GS/s, 2 Mpts/2 Ch, 4 Ch Color		WaveRunner 603	0
ncluded with Standard Configuration			
10:1 10 M Ω , 500 MHz BW Passive Probes – Qty 4 (2 with WaveRunner 6051)		PP007	
Printed Getting Started Manual		WR6-GS-E	
D-ROM containing Operators Manual, Remote Command Manual, Utility Softw	are, and Recovery Software		
Optical 3-button Wheel Mouse – USB			
Standard Ports; 10/100Base-T Ethernet, USB (5), Parallel, RS-232, SVGA Video out,	Audio in/out		
nternal Hard Drive			
Protective Front Cover			
Standard Commercial Calibration and Performance Certificate 3-Year Warranty			
Nemory Options	6200 6100 6050 6	6030 6051	
P Mpts/Ch, 4 Mpts maximum using 2 Channel (1 Channel for 6051)	<u></u> S	S2	_
4 Mpts/Ch, 4 Mpts maximum using 2 Channel (1 Channel for 6051)	M	M2	
B Mpts/Ch, 16 Mpts maximum using 2 Channel (1 Channel for 6051)	L	L2	
12 Mpts/Ch, 24 Mpts maximum using 2 Channel (1 Channel for 6051)	_	VL	V
Hardware Options			
Removable HDD		WR6-RHD	
CD-RW Upgrade		WR6-CDRW	
NaveShape Analysis Packages			
TAN Bus Tigger and Decode Test Package		CANbus TD	
itter and Timing Analysis		WR6-JTA2	
PowerMeasure Analysis		WR6-PMA2	
Disk Drive Measurement Package		WR6-DDM2	
Digital Filter Package		WR6-DFP2	
Serial Data Mask Package		WR6-SDM	_
thernet Test Package (WaveRunner 6100 and 6200 only1)		WR6-ENET	
JSB 2.0 Compliance Software (WaveRunner 6200 only2)		WR6-USB2	
Advanced Math Package		WR6-XMATH	
ntermediate Math Package		WR6-XWAV	
Master Analysis Package (XMATH + XDEV + JTA2)		WR6-XMAP	
/alue Analysis Package (XWAV + JTA2)		WR6-XVAP	
Developer's Customization Kit		WR6-XDEV	
Norton Antivirus		WR6-AV	
Selected Accessories			
Passive Probe, 500 MHz		PP007-1	
2.5 GHz Active Voltage Probe		HFP2500	
.5 GHz Active Voltage Probe		HFP1500	
GHz Active Voltage Probe		HFP1000	
500 MHz Differential Probe		AP033	
GHz Differential Probe 500A, 2 MHz Current Probe		AP034 CP500	
50A, 10 MHz Current Probe		CP150	
5A, 50 MHz Current Probe		CP015	
30A, 50 MHz Current Probe		AP015	
GHz Differential Probe and Adjustable Tips		D300 & D300AT	
00 MHz Differential Amp		DA1855A	
loppy Drive (External USB)		WR6-FLPY	
Rackmount, 6U Height		WR6-RACK	
Aini Keyboard		WR6-KBD	
ioft Carrying Case		WR6-SOFT	
Hard Transit Case		WR6-HARD	
Accessory Pouch		WR6-POUCH	
		WR6-GPIB	
256 MB USB Memory Key		MEM-USB	
Scope Cart – Basic		OC1021 OC1024	
Scope Cart – With extra shelf & drawer Dperator's Manual Printed Hardcopy		WR6-OM-E	
5-Year NIST Calibration and Warranty		WR6-T5	_

² Can be used with lower bandwidth models, however only USB 1.1 test functions will be available. WaveRunner 6200 required for USB 2.0 capability.

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