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WavePro 7000 Series

LEADING FEATURES

- Up to 24 Mpts/Ch (48 Mpts for 2 Ch)
- Up to 10 GS/s on 4 Channels (20 GS/s for 2 Ch)
- 1, 2, and 3 GHz Bandwidths
- 1 M Ω and 50 Ω Input Paths
- X- Stream Powered Technology
- Touch Screen and Front Panel User Interface
- 10.4 " SVGA Display
- Zoom and Multi-Zoom Display
- Automated Measurements with Histicons
- Connectivity to USB, GPIB and 802.3xx
- Customizable with XDEV Developer's Kit Option
- Expandable WaveShape Analysis with XMAP Option
- Jitter Analysis



LeCroy's WavePro 7000 Series brings the ability to conduct next-generation waveform measurements and analysis — not just "viewing" of signals — to 1 GHz, 2 GHz, and 3 GHz bandwidth applications. The WavePro 7300 oscilloscope is the first to offer high-speed integrated 1 M Ω and 50 Ω inputs. Connect any passive or active probe, and the WavePro DSO is ready to measure — conveniently and accurately.

LeCroy has integrated its groundbreaking X-Stream™ Technology into the WavePro family and combined it with the most intuitive User Interface (UI) available.

Such ability gives you greater confidence in the measurements you make. Confidence you can only achieve through fast oversampling of 10 GS/s on all channels, acquisition memory of up to 48 million points to maintain fast sampling—even for long complex signals—and excellent jitter noise floor performance.

The WavePro 7000 series can conduct WaveShape Analysis 10–100 times faster than any other oscilloscope in its class. That makes them excellent tools for next-generation designs, such as datacom/telecom standards development, Gigabit Ethernet, USB 2.0, digital design and debugging, and advanced military designs.

Greater Signal Understanding

The WavePro 7000 series provides multiple options so you can better understand the signals in design. Just press *Zoom* to see expanded detail of the waveform. See graphical views like *Histicons*, *Tracks*, and *Trends* of how a measurement changes throughout the signal. Use 3-D Analog Persistence to get better views of jitter and then measure directly from the trace.

The WavePro 7100, 7200, and 7300 units come with 1 M/channel memory, standard at 1 GHz, the entry-level WavePro 7000 unit provides accessibility to LeCroy's X-Stream Technology at an exceptional price.

Optional application packages focus the ability of the WavePro DSO to specific measurements in optical and electrical mask testing, magnetic and optical disk drive measurements, and clock and timing applications. Whether you're viewing signals or measuring timing and amplitude across multiple channels, the WavePro 7000 series has it all for less.





Vertical System	WavePro 7000	WavePro 7100	WavePro 7200	WavePro 7300	
Analog Bandwidth @ 50 Ω (-3 dB)	1 GHz	1 GHz	2 GHz	3 GHz	
Rise Time (Typical)	400 ps	400 ps	225 ps	150 ps	
Input Channels		4			
Bandwidth Limiters	50.0	25 MHz; 200 MHz			
Input Impedance	50 Ω;1 MΩ//11pF typical (using PP005A probe)				
Input Coupling	1 MQ: AC, DC, GND; 50 Q: DC				
Maximum Input Voltage Channel-Channel Isolation	50 Ω: 5 Vrms, 1 MΩ: 100 Vmax (peak AC: ±5 KHz + DC)				
Vertical Resolution	250:1 at same V/div setting, 40:1 at 3 GHz 8 bits: up to 11 bits with enhanced resolution (ERES)				
Sensitivity		V/div fully variable; 1 MΩ: 2 mV – 2 V/di			
DC Gain Accuracy	50 S2 . 2 111V - 1	$\pm 1.5\%$ of full scale; $\pm 1\%$ (typical)	v rully variable		
Offset Range		50 Ω: ±700 mV @ 2-4.99 mV/div			
Officerialige		±1.5 V @ 5-100 mV/div			
		±10 V @ .102-1 V/div			
		1 MΩ: ±700 mV @ 2-4.99 mV/div			
		±1.5 V @ 5-100 mV/div ±20 V @ 0.102-2 V/div			
Offset Accuracy	+(1.5	% of full scale + 0.5% of offset value + 2	mV)		
· ·	1(110	70 of fair socie + 0.070 of offset value + 2	,		
Horizontal System					
Timebases	Internal timebase con	nmon to 4 input channels; an external c	lock may be applied at the auxiliary inp	out	
Time/Division Range	20 ps/div – 10 s/div				
Math & Zoom Traces		endent zoom and 4 math/zoom traces s available with XMAP (Master Analysis pa		kane)	
Clock Accuracy	o matrizoom traces a	svaliable with AMAP (Master Arialysis par ≤ 10 ppm @ 0–40 °C	exage, or AiviATT (Auvanceu ivia(IT pac	nayo,	
Time Internal Accuracy		≤ 0.06 / SR + (10 ppm * Reading) (rms)			
Sample Rate & Delay Time Accuracy		± 10 ppm ≤ 10 s interval			
Jitter Noise Floor		2 ps rms @ 100 mV/div (typical)			
Trigger & Interpolator Jitter		≤ 2.5 ps (typical)			
Channel-Channel Deskew Range	±4.5 ns				
External Clock	30 MHz – 1	GHz; 50 Ω impedance; applied at the au	ixiliary input		
Acquisition System					
Acquisition System	F 66/-	10.00%	10.00/-	10.00/-	
Single-Shot Sample Rate/Ch 2 Channel Max	5 GS/s 10 GS/s	10 GS/s 20 GS/s	10 GS/s 20 GS/s	10 GS/s 20 GS/s	
Random Interleaved Sampling (RIS)		S/s for repetitive signals: 20 ps/div – 1 µ		20 G3/S	
Maximum Trigger Rate		forms/second (in Sequence Mode, up to			
Intersegment Time	130,000 wave	≤ 6 µs	0 4 Charineis)		
Maximum Acquisition Points/Ch	4 Ch / (2 Ch)	4 Ch / (2 Ch)		Sequence Mode	
Standard	500k / 1M	1M / 2M		500 segments	
M – Memory Option	4M / 8M	4M / 8M		1,000 segments	
L – Memory Option	_	8M / 16M		5,000 segments	
VL – Memory Option	_	16M / 32M		10,000 segments	
XL – Memory Option	_	24M / 48M		20,000 segments	
Acquisition Processing					
Averaging	Summed averaging to	o 1 million sweeps; continuous averagin	a to 1 million sweeps		
Enhanced Resolution (ERES)	Summed averaging to	From 8.5 to 11 bits vertical resolution	у то т тишогт эмесрэ		
Envelope (Extrema)	Fn\	relope, floor, roof for up to 1 million sweet	ens		
Interpolation	LIIV	Linear. Sin x/x	595		
· ·		En loar on 1 A			
Triggering System					
Modes	A	Normal, Auto, Single, and Stop			
Sources	Any input channel, Ex	ternal, Ext X10, Ext/10, or line; slope and	level unique to each source (except lin	e trigger)	
Coupling mode		DC50 Ω, GND, DC1MΩ, AC1MΩ			
Pre-trigger delay Post-trigger delay		0–100% of horizontal time scale 0–10,000 divisions			
Hold-off by time or events		Ip to 20 s or from 1 to 99,999,999 event:	c		
Internal trigger range		±5 div from center	3		
Max trigger frequency	1 GHz w/Edge Trigger;	1 GHz w/Edge Trigger;	2 GHz w/Edge Trigger;	3 GHz w/Edge Trigger;	
wax trigger requeries	750 MHz w/SMART Trigger	750 MHz w/SMART Trigger	750 MHz w/SMART Trigger	750 MHz w/SMART Trigger	
Basic Triggers				33	
	Triagar	s when signal mosts slope and lavel ser	ndition		
Edge/Slope/Line	ingger	s when signal meets slope and level cor	HUITIOH		
SMART Triggers®					
State or Edge Qualified	Triggers on any input	source only if a defined state or edge o	ccurred on another input source.		
		etween sources is selectable by time or			
Dropout		os out for longer than selected time bet			
Pattern	Logic combination (AND, I	NAND, OR, NOR) of 5 inputs (4 channels a igh, low, or don't care. The high and low l	ind external trigger input). level can be selected		
	independently	y.Triggers at start or end of the pattern.	iever carribe selected		
CMADT Trigger	aopoaoriti	, 33			
SMART Triggers					
with Exclusion Technology					
Glitch		tches with widths selectable from 600 p			
Signal or Pattern Width		e pulse widths selectable from 600 ps to			
Signal or Pattern Interval	Triggers	on intervals selectable between 2 ns ar	na zu s.		



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Automatically diselect, and separate a writing of compatible probles. Automatically christics, and separate a writing of compatible probles. Automatically or mensile year of compatible probles with evident and separate or precision internet check problem. By Coaler 104* Hat panel in 14.00 with high resolution touch varient as all time Cock. Dues, hours mirrules, secured displayed with evidential RPM pupport to great point internet checks under of those. Display amendment of the secured displayed with evidential RPM pupport to great point internet checks under of those. By Separate Cook of the secured and with the secured displayed with evidential control of the secured and secured and with the secured and		(4) 200474 1 1 1 0 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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SHz - 5 MHz square wave or DC level: 0.0 to 5.0 V into 50 Ω (0.1 V into 1 MΩ) or TTL volts (selectable)	Auxiliary Output	
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CE Approved, UL and cUL listed; conforms to EN 61326-1, EN 61010-1, UL 3111-1, and CSA C22.2 No.1010.1	Veight	
CE Approved, UL and cUL listed; conforms to EN 61326-1, EN 61010-1, UL 3111-1, and CSA C22.2 No.1010.1	hipping Weight	24 kg: 53 lbs.
	Certifications	
Varranty and Service		CE Approved, UL and cUL listed; conforms to EN 61326-1, EN 61010-1, UL 3111-1, and CSA C22.2 No. 1010.1



Ordering Information

WavePro 4-Channel Digital Oscilloscopes	Product Code
3 GHz 20 GS/s (2 Ch); 10 GS/s 4 Ch 1 M Ω & 50 Ω Color DSO 2 Mpts/2 Ch; 1 Mpts/Ch Standard	WavePro 7300
2 GHz 20 GS/s (2 Ch); 10 GS/s 4 Ch 1 MΩ & 50 Ω Color DSO 2 Mpts/2 Ch; 1 Mpts/Ch Standard	WavePro 7200
1 GHz 20 GS/s (2 Ch); 10 GS/s 4 Ch 1 MΩ & 50 Ω Color DSO	WavePro 7100
2 Mpts 2 Ch; 1Mpts/Ch Standard	
I GHz 10 GS/s (2 Ch); 5 GS/s 4 Ch 1 MΩ & 50 Ω Color DSO	WavePro 7000
1 Mpts 2 Ch; 500kpts/Ch Standard	
Included with Standard Configuration	
10:1 10 MΩ Passive Probes (Qty 2)	PP005A
Operators Manual; Quick Reference Guide; CD-ROM with OM/RCM and Utility software and Recovery software	е
Remote Control Manual	
Toppy Disk Drive	
CD-ROM Drive	
Optical 3 button Wheel Mouse- USB	
Standard Ports; 10/100Base-T Ethernet, Parallel, SVGA Video Output, USB	
Protective Front Cover	
Standard Commercial Calibration and Performance Certificate	
2 Year Warranty	
Memory Options	
B Mpts/2 Ch, 4 Mpts/Ch	-M
16 Mpts/2 Ch, 8 Mpts/Ch	-L
32 Mpts/2 Ch, 16 Mpts/Ch	-VL
48 Mpts/2 Ch, 24 Mpts/Ch	-XL
Note: The WavePro 7000 unit's maximum memory is "M" option	
Hardware Options	
IEEE-488 Remote Control Interface	GPIB-1
Removable Hard Drive Option	RHD
WaveShape Analysis Packages	
X-Stream Math, Processing and Developer's Kit (includes XMATH, XDEV, JTA2)	XMAP
Advanced Math Analysis Package	XMATH
Developer's Customization Kit	XDEV
Jitter and Timing Analysis	JTA2
Digital Filter Package	DFP2
Serial Data Mask Testing Package	SDM
Disk Drive Measurement Package	DDM2
LeCroy M1 Timing Tool	M1/ADV-1
Selected Accessories	
10:1 10 MΩ Passive Probes	PP005A
3.5 GHz Active Voltage Probe	HFP3500
	HFP2500
2.5 GHz Active Voltage Probe 1.5 GHz Active Voltage Probe	HFP1500
NaveLink 4 GHz Differential Probe	D300/D300AT
Differential Probe	AP034
Differential Probe	ADP300 series
Current Probe	CP and AP series
D/E Converters 500–1630 nm	OE 425/455
Keyboard	KYBD-1
Oscilloscope Cart	OC1021
Oscilloscope Cart with additional shelf and drawer	OC1021
Rackmount- 25" Slide	RMA-25
Rackmount- 30" Slide	RMA-30

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