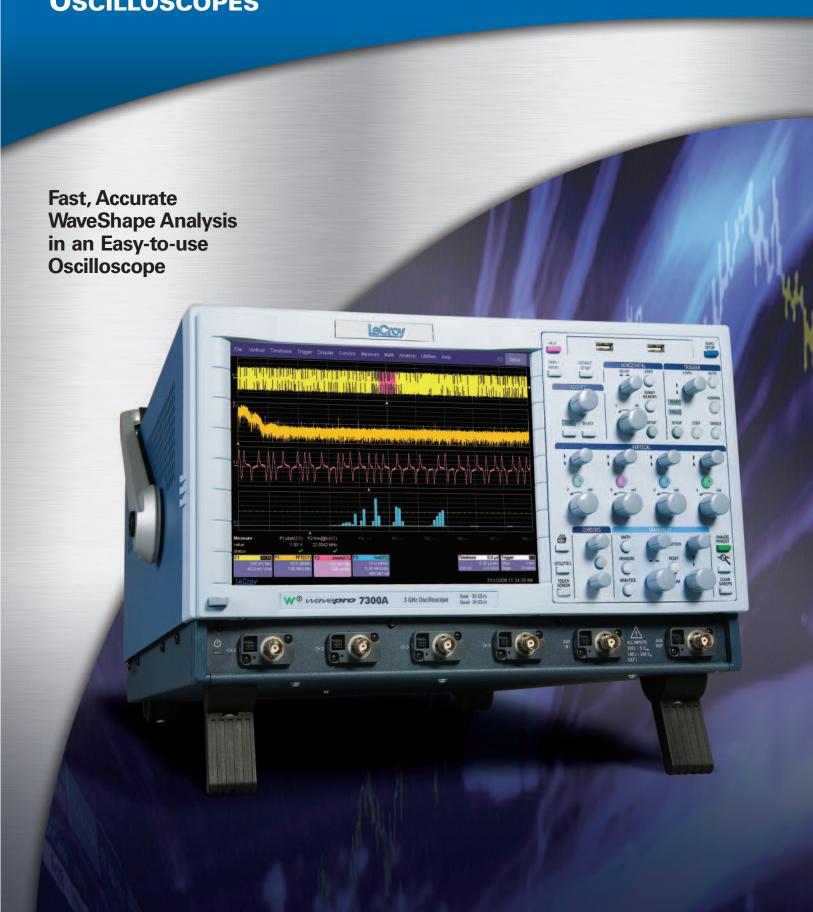
LeCroy

WAVEPRO® 7000A SERIES OSCILLOSCOPES



High-end Performance Priced to Offer Outstanding Value

The WavePro 7000A Series oscilloscope offers the sophisticated analysis capability of a top line oscilloscope with the all-round utility of a general purpose instrument. In 1 GHz to 3 GHz bandwidth applications, the WavePro delivers fast, accurate measurements associated more often with high-end lab oscilloscopes. Common Jitter and Timing measurements for clock and timing analysis enhance its capabilities. Wrap this performance in a very attractive price, and the LeCroy WavePro oscilloscope is the ideal solution for your test needs.

Performance Highlights:

- 10 GS/s single-shot sample rate on all channels (20 GS/s maximum) to capture signal details
- Up to 3 GHz with 50 Ω and 1 M Ω inputs
- Acquisition of up to 100 million data points to maintain high sampling rates and complex signals
- Over 80 jitter and timing measurements are standard
- 1 ps jitter noise floor
- Unique processing chain that enables the addition of customized measurements in the processing stream
- Deep Memory Offers
 10 Mpts per channel standard memory. Options extend all the way up to 100 Mpts.
- Display Large 10.4" SVGA touch screen. View waveform details and measurement results without crowding.
- Accessories Passive, active, differential, and current probes as well as O/E converters can be connected to a WavePro oscilloscope.



4. High Impedance Input -

All WavePro channels can be used at either 50 Ω or 1 M Ω , both selectable on the screen.

5. X-Stream Technology -

Proprietary technology that enables data processing that is 80–150 times faster than other oscilloscopes.



6. Auto Setup – One button automatically calls up a signal on the display.

7. Analog Persistence -

Switches between analog view and digital view so you can fully explore the signal's modulation.

- **8. QuickZoom** Automatically displays 10x magnified traces of all signals on multi-grids.
- 9. Wavepilot Controls give easy access to powerful signal analysis capabilities so you can gain insight and trace problems directly to their source.

10. Dedicated Vertical Controls -

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

11. Dedicated Cursor Controls -

Allows instant adjustment — even after you leave the cursor setup menu.

12. Touch Screen (standard) -

Can be used with or without a mouse.

13. Front access USB 2.0 -

Provides convenient access for transferring waveform or setup data to flash memory keys, without the need to reach behind the oscilloscope.

Unleash the Breakthrough Power of X-Stream Technology

X-Stream Technology is an extremely fast streaming architecture that enables high throughput of data—even when the WavePro oscilloscope is performing complex measurements. It does so by eliminating the trade-offs between long memory lengths and quick processing.

It is 80–150 times faster in presenting waveform and math calculations than competitive oscilloscopes. It enables the engineer to insert third party tools into the processing stream, see real-time results on screen without the need to leave the lab and return to your desk PC. Any modifications to the test circuit requiring remeasurement can be done right then, while the set up is still in place.

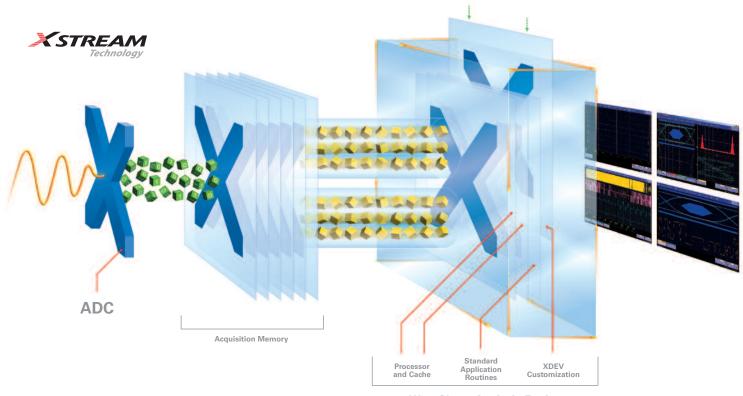
First-in-class Performance

LeCroy's proprietary CMOS memory accepts 10 GB/s of data in real time from each SiGe ADC, packetizes it, and speeds the data through dual high-speed pipelines to the CPU. Once in the CPU, LeCroy's proprietary software algorithms "capture" each packet, and perform many of the required calculations in the CPU's L1 cache memory.

With X-Stream Technology you can:

- Capture and analyze long records faster than ever before
- Utilize advanced tools for detailed analysis
- Customize your measurement capability

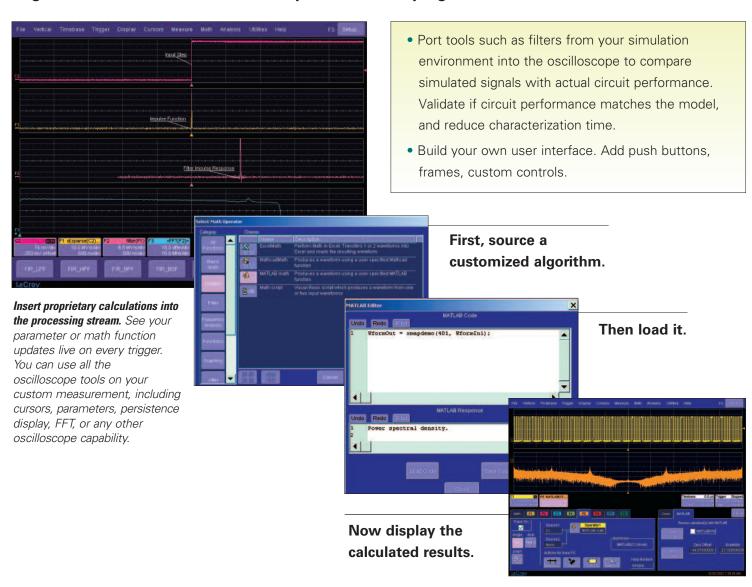
This process eliminates the "fetching" of data and math instructions from RAM to minimize calculation time. It also allows user-created functions and measurements to be inserted using our Advanced Customization software package (XDEV) option.



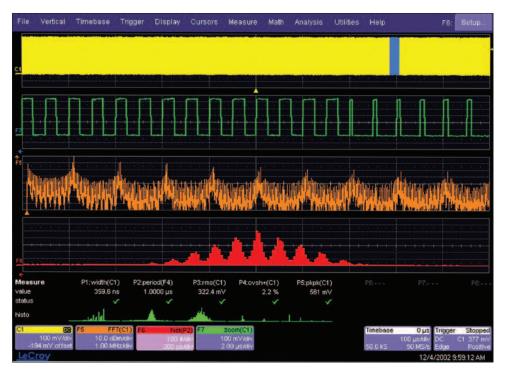
WaveShape Analysis Engine

Customize the User Interface to Meet Specific Needs

X-Stream Technology enables the insertion of user's custom analysis routines directly into the processing chain of the WavePro oscilloscope. Easily write a Visual Basic script, MATLAB,® Mathcad,® or Excel function and seamlessly integrate it into the oscilloscope's processing chain without running "off line," establish a remote communication between the oscilloscope and another program, create a new reference waveform, or transfer large data files between the oscilloscope and another program.



One-touch Control Equals Frictionless Testing



Operation of the WavePro oscilloscope is easy and intuitive. The descriptor fields show the oscilloscope settings and status. Touch the screen once to open a setup dialog and change settings. Touch "Measure" and "Horizontal" descriptors to see multiple common timing parameters. Math, histograms, statistics, and other analysis tools are all within two touches.

One-touch Equals Higher Productivity

Adjust the timebase, voltage, and cursors from the front panel knobs or use the most advanced touch screen

user interface in oscilloscopes today. Getting to parameter measurements is fast and graphical. It's highly intuitive and adaptable to a busy engineer's working style.

Large Display for Sharp Trace Images

All WavePro 7000A oscilloscopes models have a 10.4" SVGA touch screen display with a waveform viewing area, (standard).

Powerful Zoom Functions

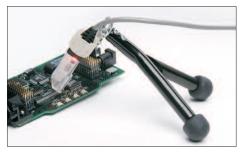
WavePro oscilloscopes have the ability to create up to eight unique zoom or math traces, each analyzing a different segment of the waveform. Calculations can be performed on the zoomed areas. A Multi-Zoom feature allows you to view time-correlated events, and Auto-Scroll is available to roll through the waveform.

More Data—More Insights

Another unique viewing capability is Histicons—small histogram views that provide a visual indication of parameter distributions. Up to eight Histicons and their accompanying statistics can be displayed simultaneously without adversely affecting the processing time.

Probes

The LeCroy HFP Series of Active Voltage Probes have a versatile, small, and lightweight design with high bandwidth from 1 GHz to 2.5 GHz. The HFP Series include five interchangeable styles of tips to make probing easier than ever. In addition to a traditional straight probe tip, a sharp tip allows easier access to tightly-packed test points and circuit vias.



HFP Probe

A Comprehensive Suite of Analysis Options

The WavePro 7000A Series takes WaveShape Analysis options to a new level. The following software packages dramatically expand the capabilities of WavePro oscilloscopes and enable engineers to trouble-shoot circuits in more productive ways.

Advanced Math Software Package (XMATH)

It provides more than 30 math functions and 40 parameter measurements.

Advanced Customization Software Package (XDEV)

This 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.

Jitter and Timing Analysis Software Package (JTA2)

This package shows 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.

Master Analysis Software Package (XMAP)

It provides maximum capability and flexibility, and includes all the functionality present in XMATH, XDEV, and JTA2.

Digital Filter Software Package (DFP2)

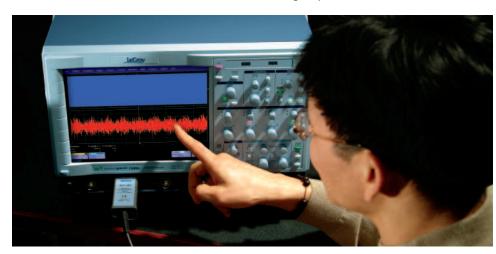
It lets you add any of a set of linearphase Finite Impulse Response (FIR) filters. It enhances your ability to examine important signal components by filtering out undesired spectral components such as noise. Use the standard filters or create your own.

The Disk Drive Measurements Software Package (DDM2)

This package adds dozens of new disk drive measurements. DDM2, combined with WavePro sequence triggering and SMART Triggers™, offers the perfect solution for failure analysis when testing disk drives.

Advanced Optical Recording Measurement Software Package (AORM)

It provides 8 timing and 9 amplitude analysis parameters for characterizing CD/DVD and experimental optical storage systems.



For differential measurements, the WaveLink® Series of high bandwidth probes combine with WavePro to complete the measurement system. Best-in-class circuit loading characteristics and exceptional frequency response flatness accuracy maintain

signal fidelity through the entire measurement system. AutoColorID lights in the probe handle show the channel trace color to quickly identify which probe is driving which channel. Visit www.lecroy.com for more information.



WaveLink D600ST

Specifications

$\begin{array}{c} 1 \ \text{M}\Omega : \text{AC, DC} \\ 50 \ \Omega : 5 \ \text{V}_{\text{rms, r}}, \\ 250:1 \ \text{at same} \\ 8 \ \text{bits; up to } 11 \\ 50 \ \Omega : 2 \ \text{mV-1} \\ \pm 1.5 \% \ \text{of full s} \\ 50 \ \Omega : \\ \pm 700 \ \text{mV} \ @ \\ \pm 1.5 \ \text{V} \ @ \ 5 \\ \pm 10 \ \text{V} \ @ \ 0.1 \\ 1 \ \text{M}\Omega : \\ \pm 700 \ \text{mV} \ @ \\ \pm 1.5 \ \text{V} \ @ \ 5 \\ \pm 20 \ \text{V} \ @ \ 0.1 \\ \end{array}$	15 pF; 10 MΩ, GND; 50 Ω: DCI MΩ: 100 V ma V/div setting, 4C bits with enhar V/div, fully variable cale; (±1% typic 2–4.95 mV/div 100 mV/div 100 mV/div 100 mV/div 100 mV/div 102–2 V/div	x. (peak AC: \leq 5 l :1 at 3 GHz ced resolution (E le; 1 M Ω : 2 mV–	kHz + DC) RES) 2 V/div, fully variable	2 GHz 225 ps	1 GHz 400 ps
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Specifications

Pre-trigger Delay	0–100% of me	emory size (adjusta	able in 1% increme	ents of 100 ns)			
Post-trigger Delay	0-10,000 divisions in real time mode, limited at slower time/div settings or in roll mode						
Hold-off by Time or Events	2 ns to 20 s or from 1 to 99,999,999 events						
Internal Trigger Range	±5 div from center						
	WavePro 7300A	WavePro 7200A	WavePro 7100A	WavePro 7300A XXL	WavePro 7200A XXL	WavePro 7100A XXL	
Trigger Sensitivity (edge) (Ch 1-4 and External)	2 div < 3 GHz 1 div < 2 GHz	2 div < 2 GHz 1 div < 1.8 GHz	2 div < 1 GHz 1 div < 750 MHz	2 div < 3 GHz 1 div < 2 GHz	2 div < 2 GHz 1 div < 1.8 GHz	2 div < 1 GHz 1 div < 750 MH:	
Max. Trigger Frequency, SMART Trigger	750 MHz						
Basic Triggers							
Edge	Triggers when	signal meets slop	e (positive or nega	ative) and level cond	dition.		
SMART Triggers							
State or Edge Qualified	Delay between	sources is selec	table by time or ev	ents.	on another input sou	irce.	
Dropout				l time between 2 n			
Pattern	Logic combination (AND, NAND, OR, NOR) of 5 inputs (4 channels and external trigger input. Each source can be high, low, or don't care.The High and Low level can be selected independently. Triggers at start or end of the pattern.						
SMART Triggers with Exclusion Tec	hnology						
Glitch 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)						
Signal or Pattern Interval	Triggers on intervals selectable between 2 ns and 20 s.						
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	Trigger on inte	rmittent faults by	specifying the norr	mal width or period			
Automatic Setup							
Auto Setup	Automatically sets timebase, trigger, and sensitivity to display a wide range of repetitive signals.						
Vertical Find Scale	Automatically sets the vertical sensitivity and offset for the selected channels to display a waveform with maximum dynamic range.						
Probes							
Probes	(4) PP005A \div 10, 10 M Ω passive probes						
Probe System: Probus	Automatically detects and supports a variety of compatible probes						
Scale Factors Color Woveform Display	Automatically (or manually select	ed depending on p	probe used			
Color Waveform Display Type	Color 10 4" flat	-panel TFT-l CD w	vith high resolution	touch screen			
Resolution	SVGA; 800 x 6		5				
Number of Traces	Display a maxi	mum of 8 traces.	Simultaneously dis	splay channel, zoon	n, memory, and mat	h traces	
Grid Styles	Display a maximum of 8 traces. Simultaneously display channel, zoom, memory, and math traces Auto, Single, Dual, Quad, Octal, XY, Single + XY, Dual + XY						
Waveform Styles	Sample dots jo	ined or dots only					
Analog Persistence Display							
Analog and Color-Graded Persistence				stence data in men	nory.		
Persistence Selections		color, or three-din					
Trace Selection			y combination of tr	aces			
Persistence Aging Time		0 ms to infinity	and the state of t	Linkbor 1			
Sweeps Displayed	All accumulate	a, or all accumula	ted with last trace	nighlighted			
Zoom Expansion Traces	Disal	7 1484	1-17 0 A	1-+- /7		/N /1 t	
			dvanced Math sof		available with XMAP	(iviastei Analysis	

Specifications

CPU	
Processor	Processor Intel® Pentium® 4 @ 2.54 GHz (or better) with Microsoft Windows® XP Professional
Processing Memory	Up to 2 Gbytes
Realtime Clock	Dates, hours, minutes, seconds displayed with waveform SNTP support to synchronize to precision internet clocks
Internal Waveform Memory	
	M1, M2, M3, M4 Internal Waveform Memory (store full-length waveforms 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 a 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
USB Ports	USB 2.0 ports support Windows compatible devices
External Monitor Port Standard	15-pin D-Type SVGA-compatible
Parallel Port	1 standard
Auxiliary Input	
Signal Types	Selected from External Trigger or External Clock input on front panel
Coupling	50 Ω: DC; 1 MΩ: AC, DC, GND
Max. Input Voltage	50 Ω: 5 V _{rms} ; 1 MΩ 250 V (Peak AC < 10 kHz + DC)
Auxiliary Output	
Signal Types	Select from calibrator, control signals or Off
Calibrator Signal	5 Hz–5 MHz square wave or DC level; 0.0 to 5.0 V into 50 Ω (0–1 V into 1 M Ω) or TTL volts (selectable)
Control Signals	Trigger enabled, trigger out, pass/fail status
General	
Auto Calibration	Ensures specified DC and timing accuracy is maintained for 1 year minimum
Power Requirements	100–120 VAC at 50/60/400 Hz; 200–240 VAC at 50/60 Hz; Automatic AC Voltage selection Max. power consumption: 650 W/650 VA
Environmental	
Temperature (Operating)	+5 °C to +40 °C including CD-ROM drives
Temperature (Non-Operating)	-20 °C to +60 °C
Humidity (Operating)	5% to 80% relative humidity (non-condensing) up to +30 °C Upper limit derates to 25% relative humidity (non-condensing) at +40 °C
Humidity (Non-Operating)	5% to 95% relative humidity (non-condensing) as tested per MIL-PRF-28800F
Altitude (Operating)	up to 10,000 ft. (3048 m) at or below +25 °C
	up to 40,000 ft. (3048 ft) at of below +25 °C up to 40,000 ft. (12,192 m)
Altitude (Non-Operating) Random Vibration (Operating)	
	0.31 g _{rms} 5 Hz to 500 Hz, 15 minutes in each of three orthogonal axes
Random Vibration (Non-Operating) Functional Shock	2.4 g _{rms} 5 Hz to 500 Hz, 15 minutes in each of three orthogonal axes 20 g peak, half sine, 11 ms pulse, 3 shocks (positive and negative)
Functional Shock	in each of three orthogonal axes, 18 shocks total
Physical Dimensions	
Dimensions (HWD)	264 mm x 397 mm x 491 mm; 10.4" x 15.6" x 19.3" (height excludes feet)
Weight	18 kg; 39 lbs.
Shipping Weight	24 kg; 53 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.
Warranty and Service	
	3-year warranty; calibration recommended annually

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) derivative product (x) deskew (resample) ratio (/) difference (-) reciprocal enhanced resolution (to 11 bits vertical) rescale (with units)

envelope roof exp (base e) (sinx)/x

exp (base 10) square fft (power spectrum, magnitude, phase, square root up to 25 kpts) sum (+)

trend (datalog) of 1000 events floor

histogram of 1000 events zoom (identity)

integral

Measure Tools

Display any 8 parameters together with statistics, including their average, high, low, and standard deviations. Histicons provide a fast, dynamic view of parameters and wave shape characteristics.

rms

x@ min.

amplitude last area level @ x std. deviation maximum base top cycles mean width median median data delay minimum phase time @ minimum (min.) ∆ delay number of points +overshoot time @ maximum (max.) duty cycle duration -overshoot ∆ time @ level falltime (90-10%. Δ time @ level from peak-to-peak 80-20%, @ level) trigger period frequency x@ max. risetime (10-90%,

Pass/Fail Testing

first

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 front panel auxiliary BNC output, or (with the GPIB option) send a GPIB SRQ.

20-80%, @ level)

Jitter and Timing

Parametric Measurements:

- period@level
- width@level
- duty@level
- frequency@level
- TIE@level
- edge@level

Statistical Analysis:

- Jitter Track
- Jitter Trend (1000 pts)
- Histograms (1000 pts)

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 signal WaveShape Analysis tools providing insight into the wave shape of complex signals. Additional capability provided by XMATH includes:

- 8 math traces total (4 additional)
- Parameter math add, subtract, multiply, or divide two different parameters
- 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 25 Mpts.
- Narrow-band power measurements
- Auto-correlation function
- Sparse function
- Cubic and Quadratic Interpolation function

Advanced Customization Software Package (XDEV)

This package provides a set of tools to modify the oscilloscope 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 oscilloscope. Supported third-party software packages include:
- VBScript
- MATLAB
- Excel
- Mathcad
- CustomDSO create your own user interface in a oscilloscope dialog box.
- Addition of macro keys to run VBScript files
- Support for plug-ins

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
 N-Cycle
 N-Cycle with start selection
 Frequency
 Period
 Half Period
 Skew
 Duty Cycle
 Duty Cycle Error
 Duty Cycle Error
- 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 the user's 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

Application Specific Test and Analysis Packages

Power Measure 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

Advanced Optical Recording Measurements (AORM)

The AORM option in our new-generation X-Stream oscilloscope environment provides a completely updated user interface and improved debug tools written to support ever-increasing read/write data rates and larger media capacity required for the latest CD and DVD implementations. Typical applications include game box technology and high-capacity DVD Read/Write.

The unique combination of deep acquisition memory available in LeCroy oscilloscopes and the flexibility of AORM in adapting to optical recording standards provides the user with ultimate measurement accuracy and 2-dimensional correlation of recording parameters.

Note: AORM is supported in WavePro 7200A oscilloscopes and higher.

Parameter Definition Table

Timing Ar	nalysis Parameters	Amplitu	de Analysis Parameters
deltap2c	Data edge shift referred to clock	paa	Average amplitude of RF signal
deltap2cs	Standard deviation of deltap2c	pasym	Asymmetry of RF signal
edgsh	Pit or space width difference from ideal value	pbase	Base of pit or space
period	Period of each cycle of clock	pmax	Maximum of pit or space
pnum	Number of pit or space pair	pmidl	Middle voltage of pit or space
pwid	Width of pit or space pairs	pmin	Minimum of pit or space
t@pit	Delay of pit or space from trigger	pmoda	Modulation of RF signal
timj	Standard deviation of edgsh	pres	Resolution of RF signal
		ptop	Top of pit or space

Disk Drive Measurements Package (DDM2)

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

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

- Correlation function
- Trend (datalog) of up to 1 million events
- Histograms expanded with 18 histogram parameters and up to 2 billion events

Ordering Information

WavePro 4-Channel Digital Oscilloscopes		t Code
4 Ch; 3 GHz; 10 GS/s; 10 Mpts/Ch; 20 Mpts/Ch	WavePr	o 7300A
20 GS/s using 2 or 1 Ch; 50 Ω and 1 M Ω Input	111/ 5	
4 Ch; 2 GHz; 10 GS/s; 10 Mpts/Ch; 20 Mpts/Ch	WavePr	o 7200A
20 GS/s using 2 or 1 Ch; 50 Ω and 1 M Ω Input 4 Ch; 1 GHz; 10 GS/s; 10 Mpts/Ch; 20 Mpts/Ch	\M/ayıo Dr	o 7100A
20 GS/s using 2 or 1 Ch; 50 Ω and 1 M Ω Input	vvaveri	0 / 100A
Memory Options		14/07.1/1
24 Mpts/Ch (48 Mpts using 2 or 1 Ch)		WP7-XL WP7-VI
16 Mpts/Ch (32 Mpts using 2 or 1 Ch)		VVP/-VL
Long Memory Versions		
4 Ch 3 GHz; 10 GS/s; 50 Mpts/Ch; 100 Mpts/Ch	WavePro 730	DOA XXL
20 GS/s using 2 or 1 Ch; 50 Ω and 1 M Ω Input		
4 Ch 2 GHz; 10 GS/s; 50 Mpts/Ch; 100 Mpts/Ch	WavePro 720	OOA XXL
20 GS/s using 2 or 1 Ch; 50 Ω and 1 M Ω Input	WavePro 710	20 4 3/3/1
4 Ch 1 GHz; 10 GS/s; 50 Mpts/Ch; 100 Mpts/Ch 20 GS/s using 2 or 1 Ch; 50 Ω and 1 MΩ Input	vvavePro / II	JUA XXL
Included with Standard Configuration		
÷10, 500 MHz 10 MΩ Passive Probe (Qty. 4)		PP005A
Optical 3-button Wheel Mouse, USB 2.0		
Protective Front Cover		
Printed Operator's Manual		
Printed Getting Started Guide		
Printed Remote Control Manual		
Product Manual Set on CD-ROM		
Software Option Manual CD-ROM		
Norton Anti-virus Software (1 year subscription)		
Microsoft XP Pro License		
Commercial Calibration with Performance Certificate		
Power Cable for the Destination Country		
3-Year Warranty		
Software Options		
Advanced Math and WaveShape Analysis Softwa	re Options	\/N 4 A T. I.
Advanced Math Software Package Advanced Customization Software Package		XMATH
Processing Web Editor Software Package		XWEB
for Functions and Parameters		VAAFD
Jitter and Timing Analysis Software Package		JTA2
Master Analysis Software Package (Includes JTA2, XMA)	TH, and XDEV)	XMAP
Digital Filter Software Package	,	DFP2
8B/10B Decoding and Analysis Software Package	SD	A-8B10B
Standard Compliance Software Options		
Serial Data Mask Software Package		SDM
Ethernet Test Software Package		ENET
USB 2.0 Compliance Test Software Package		USB2
Application Specific Test and Analysis Options		
Disk Drive Measurement Software Package		DDM2
Advanced Optical Recording Measurement Software F	Package	AORM*
PowerMeasure Analysis Software Package		PMA2
EMC Pulse Parameter Software Package	V	P7-EMC

*For only WP7200A and WP7300A oscilloscopes. **Hardware Options and Accessories**

Removable Hard Drive Package (includes USB,

CD-ROM, removable hard drive and spare hard drive)

IEEE-488 GPIB Control Interface

Additional Removable Hard Drive

CD-ROM Read/Write Upgrade

Internal Graphics Printer

Dual Monitor Display

Serial Data Options	Product Code
I2C Decode only Option	WP7K-I2Cbus TD
SPI Decode only Option	WP7K-SPIbus TD
CANbus TDM Trigger, Decode and Measure/Graph Option	CANbus TDM
CANbus TD Trigger and Decode Option	CANbus TD
Hardware and Software Option	
32 Digital Channel Oscilloscope Mixed Signal Option	MS-32-DSA
Selected Probes and Signal Conditioners	
Set of 4 ZS1500 High Impedance Active Probes	ZS1500-QUADPAK
Set of 4 ZS1000 High Impedance Active Probes	ZS1000-QUADPAK
÷10, 500 MHz 10 MΩ Passive Probe (4 included)	PP005A
SMT Probing Accessories for PPE Series, PP005A	PK106
and PP065 Surface Mount Technology Products	
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
WaveLink 4 GHz Differential Probe with Adjustable Tip Module	D300A-AT*
	Denoct*
WaveLink 7 GHz, Differential Probe Small Tip Module	D600ST*
WaveLink 4 GHz, 5 V Differential Probe Small Tip Module	D500PT*
WaveLink 6 GHz, Differential Positioner Mounted Tip Probe Module	D500P1^
WaveLink ProBus Probe Body	WL300
1 GHz Active Differential Probe (÷1, ÷10, ÷20)	AP034
500 MHz Active Differential Probe (x10, ÷1, ÷10, ÷100)	AP033
Optical-to-Electrical Converter, 500–870 nm	
ProBus BNC Connector	OE425
Optical-to-Electrical Converter, 950–1630 nm ProBus BNC Connector	OE455
30 A; 100 MHz Current Probe – AC/DC; 30 Arms; 50 Apea	
30 A; 50 MHz Current Probe – AC/DC; 30 Arms; 50 Apeak	Pulse CP030
150 A; 10 MHz Current Probe – AC/DC; 150 Arms; 500 A	
500 A; 2 MHz Current Probe – AC/DC; 500 Arms; 700 Ape	eak Pulse CP500
30 A; 50 MHz Current Probe – AC/DC; 30 Arms; 50 Apeak	Pulse AP015
1 Ch, 100 MHz Differential Amplifier with	DA1855A
Precision Voltage Source	
1,400 V, 100 MHz High-Voltage Differential Probe	ADP305
1,400 V, 20 MHz High-Voltage Differential Probe	ADP300
*For a complete probe, order WL300 Probe Body with Probe T	ip Module
Selected Accessories	
Keyboard, USB	KYBD-1

Keyboard, USB	KYBD-1
Rackmount Adapter with 25" (64 cm) Slides	RMA-25
Rackmount Adapter with 30" (76 cm) Slides	RMA-30
Hard Transit Case	WM-TC1
Oscilloscope Cart with Additional Shelf and Drawer	OC1024
Oscilloscope Cart	OC1021
Additional Graphic Printer Paper (10 Rolls Pkg.)	GPR10
Video Trigger Module	VT75
Telecom Adapter Kit, 100 Ω Bal, 120 Ω Bal, 75 Ω Unbal	TF-ET
Ethernet Compliance Test Fixture for 10Base-T	TF-10BT
Ethernet Compliance Test Fixture for 100Base-T/1000Base-T	TF-ENET
[(Includes a Set of 2 Test Fixtures Signals on Twisted Pair Cables (UT	TP)]
USB 2.0 Testing Compliance Test Fixture	TF-USB

Customer Service

GPIB-1

WM-GP02

WM-RHD

WM-RHD-02

WM-CDRW

DMD-1

LeCroy oscilloscopes and probes 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 and our probes are warranted for one year.

This warranty includes:

- · No charge for return shipping
- Long-term 7-year support
- Upgrade to latest software at no charge



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

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