

WaveSurfer 3000 Oscilloscopes 200 MHz – 750 MHz



Key Features

- 200 MHz, 350 MHz, 500 MHz and 750 MHz bandwidths
- Up to 4 GS/s sample rate
- Long Memory up to 10 Mpts/Ch
- 10.1" touch screen display
- MAUI Advanced User Interface
 - Designed for Touch
 - Built for Simplicity
 - Made to Solve

Advanced Anomaly Detection

- Fast Waveform Update
- History Mode
- WaveScan

Capture, Debug, Analyze, Document

- LabNotebook
- Seguence Mode
- Advanced Active Probe Interface
- Math and Measure

Multi-Instrument Capabilities

- Protocol Analysis Serial Trigger and Decode
- Waveform Generation Built-in Function Generator
- Logic Analysis 16 Channel MSO
- Digital Voltmeter

Future Proof

- Upgradeable Bandwidth
- Field Upgradable Software and Hardware Options

WaveSurfer 3000 oscilloscopes feature the MAUI advanced user interface with touch screen simplicity to shorten debug time. Quickly identify and isolate anomalies with WaveScan, Fast Display, and History mode for faster troubleshooting; LabNotebook enables easy documentation and convenient collaboration. The advanced probe interface, upgradable bandwidth and multi-instrument capabilities provide maximum versatility and investment protection.

MAUI - A New Wave of Thinking

MAUI is the most advanced oscilloscope user interface. MAUI is designed for touch; all important oscilloscope controls are accessed through the intuitive touch screen. MAUI is built for simplicity; time saving shortcuts and intuitive dialogs simplify setup. MAUI is made to solve; deep set of debug and analysis tools help identify problems and find solutions quickly.

Advanced Anomaly Detection

Combining a fast waveform update rate of 130,000 waveforms/second with History mode waveform playback and WaveScan search and find, the WaveSurfer 3000 is an outstanding tool for waveform anomaly detection.

Capture, Debug, Analyze, Document

The advanced active probe interface gives tremendous flexibility for capturing all types of signals. Debug, analyze and document problems through the use of powerful math and measurement capabilities, sequence mode segmented memory, and LabNotebook

Multi-Instrument Capabilities

Beyond traditional oscilloscope functionality the WaveSurfer 3000 has a variety of multi-instrument capabilities including, waveform generation with a built-in function generator, protocol analysis with serial data trigger and decode, logic analysis with an available 16 channel mixed signal option and digital voltmeter measurements.

MAUI – A NEW WAVE OF THINKING



MAUI is the most advanced oscilloscope user interface developed to put all the power and capabilities of the modern oscilloscope right at your fingertips. Designed for touch; all important oscilloscope controls are accessed through the intuitive touch screen. Built for simplicity; time saving shortcuts and intuitive dialogs simplify setup. Made to solve; a deep set of debug and analysis tools helps identify problems and find solutions quickly.

Oscilloscopes are constantly evolving to meet the rapidly changing test and measurement needs of today's cutting edge designs. Additional complexity and capabilities are introduced with each new feature, and in some cases when capabilities of other instruments like a protocol analyzer, function generator or logic analyzer are added. With all this added capability the oscilloscope becomes complex and cumbersome to use. The traditional user interface consisting of knobs, buttons, soft keys and nested menus is unmanageable and more buttons are typically added to access the new functionality.

MAUI solves the complexity problem. MAUI eliminates the overwhelming number of buttons and knobs providing an intuitive user interface that is designed for touch, built for simplicity and made to solve without sacrificing any features or cutting edge test capabilities.

Designed for Touch

MAUI is designed for touch. All important controls for vertical, horizontal and trigger are always one touch away. Touch the waveform to position and drag a box around it to zoom in for more details. Position cursors, configure measurements and interact with tables all through simple touch operation.



Built for Simplicity

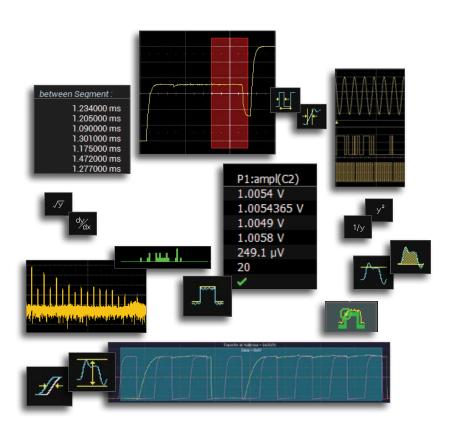
MAUI is built for simplicity. Basic waveform viewing and measurement tools as well as advanced math and analysis capabilities are seamlessly integrated in a single user interface. Time saving shortcuts and intuitive dialogs simplify setup and shorten debug time.



- Access shortcuts to analysis tools by touching the waveform.
- Channel, timebase and trigger descriptors provide easy access to controls without navigating menus.
- B Configure parameters by touching measurement results.
- Shortcuts to commonly used functions are displayed at the bottom of the channel, math and memory menus.

Made to Solve

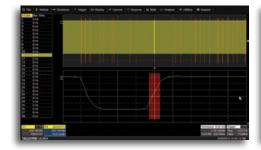
MAUI is made to solve. Measure all aspects of a waveform to identify problems. Debug with a large set of time saving tools to find the cause of problems. Solve problems fast with powerful analysis tools.



ADVANCED ANOMALY DETECTION



Combining a fast waveform update rate of 130,000 waveforms/second with History mode waveform playback, Pass/Fail Mask Testing and WaveScan search and find, the WaveSurfer 3000 is an outstanding tool for waveform anomaly detection. A powerful set of triggering capabilities ensures that once a problem is detected it can be isolated and analyzed.





SPI RS-232

WaveScan Advanced Search

Locate unusual events in a single capture or scan for an anomaly across many acquisitions over a long period of time. WaveScan provides powerful isolation capabilities that hardware triggers cannot provide.

Select from more than 20 search modes to find events on any analog or digital channel. Since the scanning modes are not simply copies of the hardware triggers, the utility and capability is much higher. There is no frequency trigger in any oscilloscope, yet WaveScan allows for frequency to be quickly scanned, notifying the user upon a shift in frequency. Searching can be done based on measured waveform parameters, runts, and non-monotonic edges as well as digital patterns.

WaveScan quickly and efficiently scans millions of events looking for unusual occurrences. Search and scan results can be seen with annotations directly on the waveform or in the interactive table. Quickly zoom to an event to see more details by simply touching it in the table.

Pass/Fail Mask Testing

Built-in pass/fail mask testing quickly identifies problems and marks the location. A history of the pass/fail results can be displayed on the screen.

There are four different conditions that can be selected to specify a passing condition: All In, All Out, Any In, and Any Out. When a failure is found, one or more of the following actions can be selected to be performed to record the results: save a waveform, stop the acquisition, output and audible alarm, pulse the aux output port, save a hardcopy or even save a LabNotebook entry.

When the acquisition is running, failures are displayed as a red trace, however when the acquisition is stopped, a failure indicator is displayed to clearly show all failing points. Masks can either be created using the offline mask maker utility or created based on a reference waveform and specifying horizontal and vertical deltas.

Powerful Triggering

Good triggering is essential for effective debug and with a powerful combination basic and advanced triggers the WaveSurfer 3000 ensures that even the most challenging problems can be isolated. Basic triggering like edge and width are great for every day operation. Advanced triggers like runt or interval help isolate anomalies quickly. Qualified triggering allows for configuring a trigger across multiple channels.

With the MSO leadset connected, powerful logic triggering can be set up to catch a parallel pattern of up to 16 digital channels. Analog channels can be added to the pattern trigger to configure an analog-digital cross pattern, mixed signal trigger.

Beyond the standard oscilloscope triggering, unique serial data triggering capabilities for I²C, SPI, UART/RS-232, CAN, CAN FD, LIN and FlexRay add protocol specific triggering to isolate activity on a variety of serial busses.



Fast Waveform Update

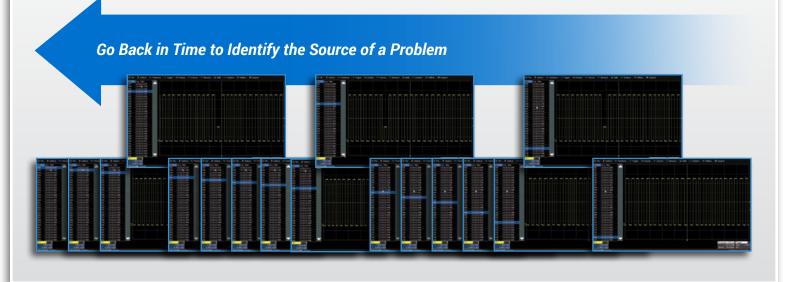
A fast update rate ensures that no waveform variations or details are missed. With an update rate of up to 130,000 waveforms per second the WaveSurfer 3000 is able to easily display random or infrequent events simplifying anomaly detection, identification and debug. Rapidly changing waveforms are easy to see and visually inspect. Changes over time can be seen with the intensity graded persistence display.



Rotating and tilting feet provide four different viewing positions.

History Mode Waveform Playback

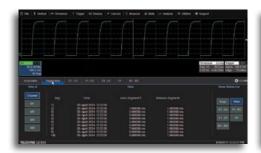
Scroll back in time using History Mode to view previous waveforms and isolate anomalies. Use cursors and measurement parameters to quickly find the source of problems. History mode is always available with a single button press, no need to enable this mode and never miss a waveform.



CAPTURE. DEBUG. ANALYZE. DOCUMENT.







Advanced Waveform Capture with Sequence Mode

Use Sequence mode to save waveforms into segmented memory. This is ideal for capturing fast pulses in quick succession or when capturing events separated by long time intervals. Combine Sequence mode with advanced triggers to isolate rare events over time. Trigger times and time between segments are provided for additional insight.



Advanced Math Capabilities

A deep set of 20 math functions adds to the problem solving capability of WaveSurfer 3000. Math functions provide quick insight into waveforms and help point to the cause of the most challenging problems. Functions like the powerful FFT provide details of the frequency domain while averaging effectively filters noise out of the signal.



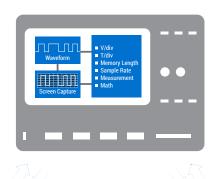
Superior Measurement Tools

With 24 measurement parameters, the WaveSurfer 3000 can measure and analyze every aspect of analog and digital waveforms. Statistics and histicons go beyond traditional measurement tools providing insight to how a waveform changes over time. Measurement data can be trended to create a visual representation of changing measurements.

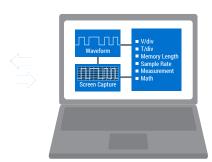


LabNotebook Documentation Tool

LabNotebook is a one-button tool to save and restore waveforms, measurements and settings without navigating multiple menus. Saved waveforms can be measured and analyzed later both on the oscilloscope or offline using the WaveStudio PC Utility.

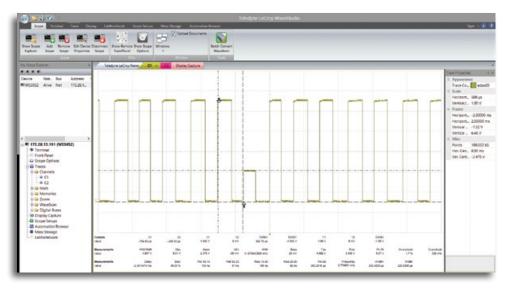






WaveStudio Offline Analysis Tool

WaveStudio is a fast and easy way to analyze acquired waveforms offline. Offline tools include x and y axis cursors for quick measurements and 21 built-in automatic measurements for more precise and accurate results. WaveStudio can also connect to the oscilloscope for direct data transfer to the PC. Data saved with LabNotebook can be shared with others using WaveStudio for easy collaboration.



Advanced Probe Interface

The advanced active probe interface gives tremendous flexibility for measuring high voltages, high frequencies, currents, or differential signals.

High Impedance Active Probes



High Bandwidth
Differential Probes



High Voltage Differential Probes



High Voltage Passive Probes



Current Probes



MULTI-INSTRUMENT CAPABILITIES



Beyond traditional oscilloscope functionality the WaveSurfer 3000 has a variety of multi-instrument capabilities including waveform generation with a built-in function generator, protocol analysis with serial data trigger and decode, and logic analysis with an available 16 channel mixed signal option.

Protocol Analysis with Serial Trigger and Decode

Debugging serial data busses can be confusing and time consuming. Time saving protocol analysis capabilities are provided by the serial trigger and decode tools.

Intuitive, Color-Coded Protocol Decode Overlay

Protocol decoding is shown directly on the waveform with an intuitive, colorcoded overlay, and presented in binary, hex or decimal. Decoding is fast even with long memory and zooming in to the waveform shows precise byte by byte decoding.

Powerful Serial Data Triggers

The serial data trigger will quickly isolate events on a bus eliminating the need to set manual triggers hoping to catch the right information. Trigger conditions can be entered in binary or hexadecimal formats and conditional trigger capabilities allow for triggering on a range of different events.



Table Summary and Search

To further simplify the debug process all decoded data can be displayed in a table below the waveform grid. Selecting an entry in the table will display just that event. Additionally, built-in search functionality will find specific decoded values.

Supported Protocols

- I²C
- SPI
- UART / RS-232
- CAN
- LIN

I2C	Time	Addr Length	Address	R/W	Length	Data
1	-8.09085 µs	10	0x032	W	17	0x00 00 4c 65 43 72 6f 79 20 49 32 43 00 00 32 31 33
2	4.31869 ms	10	0x032	W	0	
3	4.52191 ms	10	0x032	R	17	0x00 00 4c 65 43 72 6f 79 20 49 32 43 00 00 32 31 33
4	43.6751 ms	7	0x34	W	17	0x00 00 4c 65 43 72 6f 79 20 49 32 43 00 00 32 31 34
5	47.9074 ms	7	0x34	W	1	0x00
6	48.1106 ms	7	0x35	R	17	0x00 00 4c 65 43 72 6f 79 20 49 32 43 00 00 32 31 34
7	87.3585 ms	7	0x36	W	17	0x00 00 4c 65 43 72 6f 79 20 49 32 43 00 00 32 31 35
8	91.5907 ms	7	0x36	W	1	0x00
9	91.7939 ms	7	0x37	R	17	0x00 00 4c 65 43 72 6f 79 20 49 32 43 00 00 32 31 35

Digital Voltmeter

The Digital Voltmeter option activates an integrated 4-digit digital voltmeter and 5-digit frequency counter that operates through the same probes already attached to the oscilloscope channels. Real-time measurements can be viewed on the screen at all times or view more details through a dedicated user interface display. Measurements continue to be updated even when the triggering system is stopped.

The DVM license key can be downloaded at no charge from teledynelecroy.com/redeem/dvm.





Logic Analysis with 16 Channel Mixed Signal Capability

The 16 integrated digital channels and tools designed to simultaneously view, measure, and analyze both analog and digital signals enable fast debugging of mixed signal designs.

Extensive Triggering

Flexible analog and digital cross-pattern triggering across all 20 channels provides the ability to quickly identify and isolate problems in a mixed signal environment. Event triggering can be configured to arm on an analog signal and trigger on a digital pattern or both analog and digital channels can be incorporated in to a single pattern trigger.



Advanced Digital Debug Tools

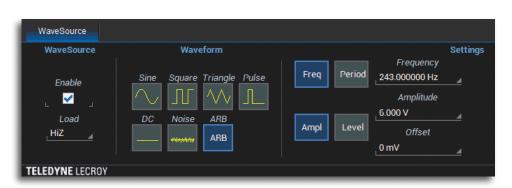
Using the powerful parallel pattern search capability of WaveScan, patterns across many digital lines can be isolated and analyzed. Identified patterns are presented in a table with timestamp information and enables quick searching for each pattern occurrence.

Use a variety of timing parameters to measure and analyze the characteristics of digital busses. Powerful tools like trends, statistics and histicons provide additional insight and help find anomalies in digital waveforms.

Quickly see the state of all the digital lines at the same time using convenient activity indicators.

Waveform Generation with Built-in Function Generator

The built-in WaveSource function generator provides up to 25 MHz and 125 MS/s waveform generation capabilities. The function generator controls are integrated directly into the oscilloscope with a dedicated user interface. The integrated function generator is a convenient time saving tool allowing for quick and easy generation of sine, square, pulse, ramp, triangle, noise and DC waveforms. Additionally, CSV files saved from an oscilloscope



can be uploaded into the WaveSource to generate arbitrary waveforms. Familiar function generator controls are seamlessly integrated in to the WaveSurfer 3000 user interface simplifying the process of generating waveform stimulus and measuring the response with the oscilloscope. A rear panel BNC connector provides easy access to the generator output.

SPECIFICATIONS



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Digital - Vertical and Acquisition (Name of Proceedings of Proceedings of Procedings o			50 MS/div)		
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Modes Aut Sources Any Coupling DC, Pre-trigger Delay 0-10 Post-trigger Delay 0-10 Internal Trigger Level Range ±4.7 External Trigger Level Range Ext: Trigger Types Edg Inte Measure, Zoom and Math Tools Measurement Parameters Up Dut Ove Dev	v III ZOIII V Steps				
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Pre-trigger Delay 0-10 Post-trigger Delay 0-10 Hold-off 10n Internal Trigger Level Range ±4.7 External Trigger Level Range Ext: Trigger Types Edg Inte Measure, Zoom and Math Tools Measurement Parameters Up 1 Dut Ove Dev	AC, HFREJ, LFREJ	errial, Ext/ 5, or line, slope	and level unique to each	1 30dice (except for fine	trigger)
Post-trigger Delay 0-10 Hold-off 10n Internal Trigger Level Range ±4. External Trigger Level Range Ext: Trigger Types Edg Inte Measure, Zoom and Math Tools Measurement Parameters Up to Dut Ove Dev	AC, HFREJ, LFREJ)0% of full scale				
Hold-off 10n Internal Trigger Level Range ±4. External Trigger Level Range Ext: Trigger Types Edg Inte Measure, Zoom and Math Tools Measurement Parameters Up Dut Ove Dev					
Internal Trigger Level Range ±4. External Trigger Level Range Ext: Trigger Types Edg Inte Measure, Zoom and Math Tools Measurement Parameters Up to Dut Ove Dev	0,000 Divisions	100 000 000			
External Trigger Level Range Ext: Trigger Types Edg Inte Measure, Zoom and Math Tools Measurement Parameters Up Dut Ove Dev		100,000,000 events			
Trigger Types Edg Inte	Divisions	05)/			
Measure, Zoom and Math Tools Measurement Parameters Up to Over Dev	±610mV, Ext/5: ±3.				
Measurement Parameters Up Dut Ove Dev		tern), TV (NTSC, PAL, SE ern), Dropout, Qualified (S			
Dut Ove Dev					
Dut Ove Dev	o 6 of the following	parameters can be calc	ulated at one time on ar	ny waveform: Amplitude	, Area, Base, Delay,
Dev	y Cycle, Fall Time (9	90%–10%), Fall Time (80°	%–20%), Frequency, Ma	ximum, Mean, Minimum	n, Overshoot+,
		Period, Phase, Rise Time			
/ooming		Width Statistics and his			
		oom button, or use touch			
Ave Squ	Up to 2 of the following functions can be calculated at one time: Sum, Difference, Product, Ratio, Absolute Value, Average, Derivative, Enhanced Resolution, Envelope, Floor, Integral, Invert, Reciprocal, Rescale, Roof, SinX/x, Square, Square Root, Trend, Zoom and FFT (up to 1 Mpts with power spectrum output and rectangular, VonHann, and FlatTop windows).				
Probes					
Standard Probes	One PP019 (5m	nm) per channel	One	PP020 (5mm) per char	nnel
		roy ProBus for Active vol			

SPECIFICATIONS



	WaveSurfer 3022 WaveSurfer 3024 WaveSurfer 3034 WaveSurfer 3054 WaveSurfer	r <mark>3074</mark>
Display System		
Display Size	10.1" Wide TFT-LCD Touch-Screen	
Display Resolution	1024 x 600	
Connectivity		
Ethernet Port	10/100Base-T Ethernet interface (RJ-45 connector)	-
Removable Storage	(1) MicroSD Port - 8 GB micro SD card installed standard	
USB Host Ports	(4) USB Ports Total – (2) Front USB Ports	
USB Device Port	(1) USBTMC	
GPIB Port (Optional)	Supports IEEE - 488.2	
External Monitor Port	Standard DB-15 connector (support resolution of 1024x600)	
Remote Control	Via Windows Automation, or via Teledyne LeCroy Remote Command Set	
Network Communication Standard	GPIB IEEE-488.2 and VICP, USBTMC/USB488	
Power Requirements		
Voltage	100 - 240 VAC ± 10% at 50-60 Hz +/-5%; 100 - 120 VAC ± 10% at 400 Hz +/- 5%; Automatic AC Voltage Selectic	on
Power Consumption (Nominal)	100 W / 100 VA	
Power Consumption (Max)	150 W / 150 VA (with all PC peripherals, digital leadset and active probes connected to 4 channels)	
Environmental		
Temperature	Operating: 0 °C to 50 °C; Non-Operating: -30 °C to 70 °C	
Humidity	Operating: 5% to 90% relative humidity (non-condensing) up to ≤ 30 °C, Upper limit derates to 50% relative hun	nidity
•	(non-condensing) at +50 °C	-
	Non-Operating: 5% to 95% relative humidity (non-condensing) as tested per MIL-PRF-28800F	
Altitude	Operating: 3,048 m (10,000 ft) max at \leq 25C; Non-Operating: Up to 12,192 meters (40,000 ft)	
Physical		
Dimensions (HWD)	10.63"H x 14.96"W x 4.92"D (270 mm x 380 mm x 125 mm)	
Weight	4.81 kg (10.6 lbs)	
Regulatory		
CE Certification	Low Voltage Directive 2006/95/EC; EN 61010-1:2010, EN 61010-2-030:2010 EMC Directive 2004/108/EC; EN 61326-1:2013, EN61326-2-1:2013; RoHS2 Directive 2011/65/EU	
UL and cUL Listing	UL 61010-1, UL 61010-2-030:2010, 3rd Edition; CAN/CSA C22.2 No. 61010-1-12	
Digital Voltmeter (optional)		
Functions	ACrms, DC, DCrms, Frequency	
Resolution	ACV/DCV: 4 digits, Frequency: 5 digits	
Measurement Rate	100 times/second, measurements update on the display 5 times/second	
Vertical Settings Autorange	Automatic adjustment of vertical settings to maximize the dynamic range of measurements	

DC Offset

		_	
WaveSource	Cruss addisons	Camaratar	(ambiamal)

General

Ochiciai	
Max Frequency	25 MHz
Channels	1
Sample Rate	125 MS/s
Arbitrary Waveform Length	16 kpts
Frequency Resolution	1 μHz
Vertical Resolution	14-bit
Vertical Range	±3V (HiZ); ±1.5V (50 Ω)
Waveform Types	Sine, Square, Pulse, Ramp, Noise, DC
Frequency Specification	on
Sine	1 μHz - 25 MHz
Square/Pulse	1 μHz - 10 MHz
Ramp/Triangular	1 μHz - 300 KHz
Noise	25 MHz (-3dB)
Resolution	1 μHz
Accuracy	±50 ppm, over temperature
Aging	±3 ppm/year, first year
Output Specification	
Amplitude	4 mVpp - 6 Vpp (HiZ); 2 mVpp - 3 Vpp(50 Ω)
Vertical Accuracy	±(0.3dB + 1 mV)
Amplitude Flatness	±0.5dB

DC Offset	
Range (DC)	±3V (HiZ); ±1.5V (50 Ω)
Offset Accuracy	±(1% of offset value + 3 mV)
Waveform Output	
Impedance	$50 \Omega \pm 2\%$
Protection	Short-circuit protection
Sine Spectrum Puri	ty
SFDR (Non Harmon	ic) @1.265Vpp
DC-1 MHz	-60dBc
1 MHz - 5 MHz	-55dBc
5 MHz - 25 MHz	-50dBc
Harmonic Distortion	ı @1.265Vpp
DC - 5 MHz	-50dBc
5 MHz - 25 MHz	-45dBc
Square/Pulse	
Rise/fall time	24 ns (10% - 90%)
Overshoot	3% (typical - 1 kHz, 1 Vpp)
Pulse Width	50 ns min.
Jitter	500ps + 10ppm of period (RMS cycle to cycle)
Ramp/Triangle	
Linearity	0.1% of Peak value output (typical - 1 kHz, 1 Vpp,
	100% symmetric)
Symmetry	0% to 100%

ORDERING INFORMATION

Product Description	Product Code	Product Description	Pr
WaveSurfer 3000 Oscilloscopes		Probes	
200 MHz, 4 GS/s, 2 Ch, 10 Mpts/Ch with	WaveSurfer 3022	250 MHz Passive Probe 10:1, 10 MΩ	
10.1" Touch screen Display		500 MHz Passive Probe 10:1, 10 MΩ	
200 MHz, 4 GS/s, 4 Ch, 10 Mpts/Ch with	WaveSurfer 3024	700 V, 15 MHz High-Voltage Differential Probe	
10.1" Touch screen Display		200 MHz, 3.5 pF, 1 MΩ Active Differential Probe	
350 MHz, 4 GS/s, 4 Ch, 10 Mpts/Ch with	WaveSurfer 3034	500 MHz, 1.0 pF Active Differential Probe, ±8 V	
10.1" Touch screen Display		1 GHz, 1.0 pF Active Differential Probe, ±8 V	
500 MHz, 4 GS/s, 4 Ch, 10 Mpts/Ch with	WaveSurfer 3054	Deskew Calibration Source for CP031 and CP030	
10.1" Touch screen Display		30 A; 50 MHz Current Probe – AC/DC; 30 A _{ms} ; 50 A _{peak} F	oulse
750 MHz, 4 GS/s, 4 Ch, 10 Mpts/Ch with	WaveSurfer 3074	30 A; 50 MHz High Sensitivity Current Probe – AC/DC;	
10.1" Touch screen Display		30 A _{ms} ; 50 A _{peak} Pulse	
Included with Standard Configurations		30 A; 100 MHz Current Probe - AC/DC; 30 A _{rms} ; 50 A _{pea}	_k Pulse
÷10 Passive Probe (Total of 1 Per Channel), 1 M	lioro SD card (Installed)	30 A; 100 MHz High Sensitivity Current Probe - AC/DC),
Micro SD card adapter, Protective Front Cover, C	Retting Started Guide	30 A _{rms} ; 50 A _{peak} Pulse	
Commercial NIST Traceable Calibration with Ce	ertificate, Power Cable for	150 A; 10 MHz Current Probe – AC/DC; 150 A _{rms} ; 500 A	
the Destination Country, 3-year Warranty	,	500 A; 2 MHz Current Probe – AC/DC; 500 A _{rms} ; 700 A _{pe}	_{ak} Pulse
General Accessories		100:1 400 MHz 50 MΩ 1 kV High-voltage Probe	
External GPIB Accessory	USB2-GPIB	10:1/100:1 200/300 MHz, 50 M Ω High-voltage Probe	
	WS3K-SOFTCASE	600 V/1,2 kV Max. Volt. DC	
Soft Carrying Case		100:1 400 MHz 50 MΩ 2 kV High-voltage Probe	
Rack Mount Accessory	WS3K-RACK	100:1 400 MHz 50 MΩ 4 kV High-voltage Probe	
Local Language Overlays		1000:1 400 MHz 50 M Ω 5 kV High-voltage Probe	
German Front Panel Overlay	WS3K-FP-GERMAN	1000:1 400 MHz 50 MΩ 6 kV High-voltage Probe	
French Front Panel Overlay	WS3K-FP-FRENCH	1 GHz, 0.9 pF, 1 M Ω High Impedance Active Probe	
Italian Front Panel Overlay	WS3K-FP-ITALIAN	Set of 4 ZS1000, 1 GHz, 0.9 pF, 1 MΩ	ZS1000
Spanish Front Panel Overlay	WS3K-FP-SPANISH	High Impedance Active Probe	
Japanese Front Panel Overlay	WS3K-FP-JAPANESE	1 kV, 25 MHz High Voltage Differential Probe with 2 m c	
Korean Front Panel Overlay	WS3K-FP-KOREAN	1 kV, 120 MHz High Voltage Differential Probe with 2 m	
Chinese (Tr) Front Panel Overlay	WS3K-FP-CHNES-TR	1 kV, 80 MHz High Voltage Differential Probe with 6m c	
Chinese (Simp) Front Panel Overlay	WS3K-FP-CHNES-SI	1 kV, 25 MHz High Voltage Differential Probe with	HVD3
Russian Front Panel Overlay	WS3K-FP-RUSSIAN	2 m cable without tip Accessories	H//D3.

4.0		40.00
Multi-	Instrument	Options

Multi instrument options	
MSO software option and 16 Channel Digital probe lea	adset WS3K-MS0
MSO License (MS Probe Not Included)	WS3K-MSO-LICENSE
Function Generator Option	WS3K-FG
CAN and LIN Trigger and Decode Option	WS3K-AUTO
CAN FD Trigger and Decode Option	WS3K-CAN FDbus TD
I ² C, SPI, UART and RS-232 Trigger and Decode Option	WS3K-EMB
FlexRay Trigger and Decode Option	WS3K-FlexRaybus TD

2 kV, 120 MHz High Voltage Differential Probe with	HVD3	3206-NOACC
2 m cable	-	LIVIDOCOE
6 kV, 100 MHz High Voltage Differential Probe with 6 m o	cable	HVD3605
Probe Adapters		
TekProbe to ProBus Probe Adapter		TPA10
Set of 4 TPA10 TekProbe to ProBus Probe Adapters.	TPA	10-Quadpak

1 kV, 120 MHz High Voltage Differential Probe with

2 m cable without tip Accessories

Includes soft carrying case.

Customer Service

Teledyne 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



1-800-5-LeCroy teledynelecroy.com Local sales offices are located throughout the world. Visit our website to find the most convenient location.

Product Code

PP019 PP020 AP031 ZD200 ZD500 ZD1000

DCS015

CP030A

CP030

CP031

CP031A

CP150

CP500 HVP120

PPE1.2KV PPE2KV PPE4KV PPE5KV

PPE6KV

ZS1000

HVD3102

HVD3106

HVD3106-6M HVD3102-NOACC

HVD3106-NOACC

ZS1000-QUADPAK



OOO «ЛайфЭлектроникс" "LifeElectronics" LLC

ИНН 7805602321 КПП 780501001 P/C 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 3010181090000000703 БИК 044030703

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный) Email: org@lifeelectronics.ru