TELEDYNE LECROY
Everywhereyoulook™

BIGGEST TOUCH. BEST VALUE.

WaveSurfer 3000z

100 MHz – 1 GHz
Oscilloscopes

MAUI

- 10.1" Capacitive Touch Screen
- 20 Mpts Memory
- Powerful, Deep Toolbox

The WaveSurfer 3000z has a 10.1" capacitive touch display, the longest memory, and the deepest toolbox – all at an affordable price.

teledynelecroy.com/oscilloscope/wavesurfer-3000z-oscilloscopes

BIGGEST TOUCH.
BEST VALUE.

WaveSurfer 3000z

Biggest Touch

30% Larger

+

Best Value

Digital Voltmeter
Logic Analysis with 16 Mixed Signal Capabilities
20 Mpts
Powerful Triggering
Superior Measurement Tools
History Mode
Anomaly Detection
WaveScan
LabNotebook
Waveform Generator (AFG)
Multi-Instrument Capabilities
Powerful,
Protocol Analysis with Serial Trigger and Decode
Pass/Fail Mask Testing
Deep Toolbox
Advanced Math
Fast Waveform Update

The WaveSurfer 3000z has a **10.1" capacitive touch display,** the **longest memory,** and the **deepest toolbox** – all at an affordable price.

1. 10.1" Capacitive Touch Screen
2. 20 Mpts Memory
3. Powerful, Deep Toolbox

Faster Time to Insight

Insight alone is not enough. Markets and **technologies** change too rapidly. The **timing** of **critical design decisions** is significant.

Faster Time to Insight is what matters.

TIME TO **INSIGHT**™

THE WAVESURFER 3000Z ATTRIBUTES

The WaveSurfer 3000z provides the Most Advanced User Interface (MAUI) through a 10.1" capacitive touch screen. It promotes true versatility with 20 Mpts of memory, multi-instrument capabilities, a powerful, deep toolbox, and 100 MHz - 1 GHz of bandwidth.

Key Attributes

1. 10.1" widescreen capacitive touch screen display
2. MAUI - Most Advanced User Interface
3. Waveform Control Knobs for channel, zoom, math and memory traces
4. "Push" Knobs - push functionality provides shortcuts to common actions
5. Dedicated buttons to quickly access popular debug tools.
6. Mixed Signal Capability - 16 channel mixed signal capability
7. Easy connectivity with an ethernet and four USB 2.0 Ports
8. Rotating and tilting feet for four different viewing positions

9. WaveSource Ouput for Built-in Function Generator
10. Micro SD Port - 16 GB (or larger) micro SD card installed standard
11. External Monitor DB-15 connector (Support resolution of 1024 x 600)
12. USBTMC (Test and Measurement Class) over USB 2.0 for remote connectivity
13. Small Footprint

WAVESURFER 3000z AT A GLANCE

Key Features

100 MHz, 200 MHz, 350 MHz, 500 MHz and 1 GHz bandwidths

Up to 4 GS/s sample rate

Long Memory – up to 20 Mpts

10.1" capacitive touch screen display

16 Digital Channel MSO option

MAUI - Most Advanced User Interface
- Designed for Touch
- Built for Simplicity
- Made to Solve

Advanced Anomaly Detection
- Fast Waveform Update
- History Mode - Waveform Playback
- WaveScan - Search and Find

Multi-Instrument Capabilities
- Protocol Analysis - Serial Trigger and Decode
- Waveform Generation - Built-in Function Generator
- Digital Voltmeter and Frequency Counter

Future Proof
- Upgradeable Bandwidth
- Field Upgradable Software and Hardware Options

Superior User Experience

MAUI is the most advanced oscilloscope user interface. It is designed for touch, built for simplicity, and made to solve.

Advanced Anomaly Detection

A fast waveform update rate, used in conjunction with history mode, WaveScan, sequence mode, and mask testing facilitates outstanding waveform anomaly detection.

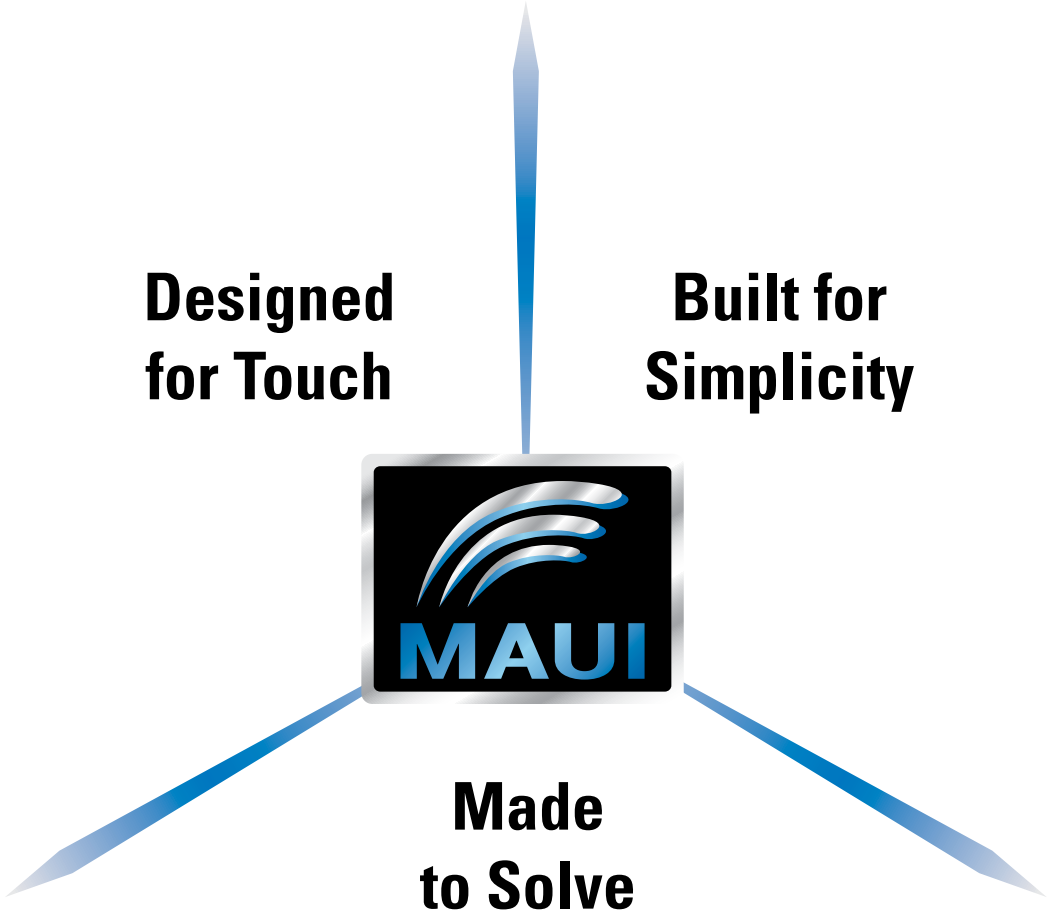
Biggest Touch Display

A large capacitive touch screen enables accessible and responsive touch operation. The 10.1" display is 30% larger than competitive offerings, providing more waveform viewing area.

Powerful, Deep Toolbox

The standard collection of math, measurement, debug, and documentation tools provides unsurpassed analysis capabilities.

MAUI – SUPERIOR USER EXPERIENCE



Designed for Touch

MAUI is designed for touch. Operate the oscilloscope just like a phone or tablet with the most unique touch screen features on any oscilloscope. All important controls are always one touch away. Touch the waveform to position or zoom in for more details using intuitive actions.

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.

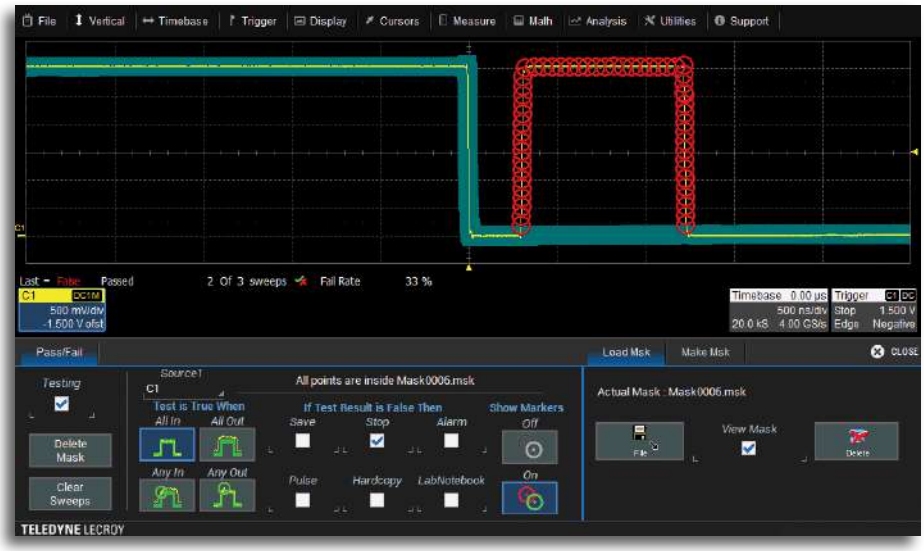
Made to Solve

MAUI is made to solve. A deep set of integrated debug and analysis tools help identify problems and find solutions quickly. Unsurpassed integration provides critical flexibility when debugging. Solve problems fast with powerful analysis tools.

ADVANCED ANOMALY DETECTION

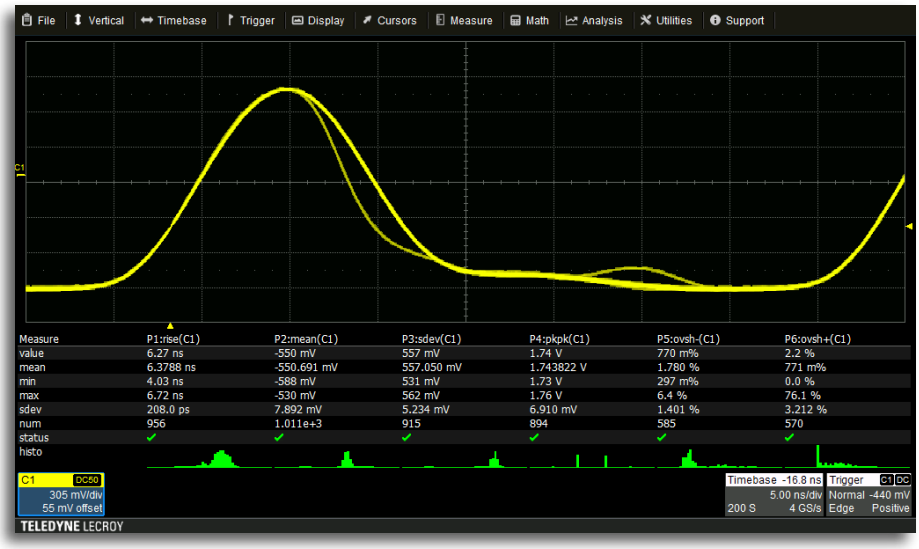
WaveScan Advanced Search

- Locate unusual events in a single capture or scan for an anomalies across many acquisitions
- More than 20 modes can be applied to analog or digital channels



Pass/Fail Mask Testing

- Mask testing to quickly identify anomalies and mark their location.
- A history of these pass/fail results can be displayed

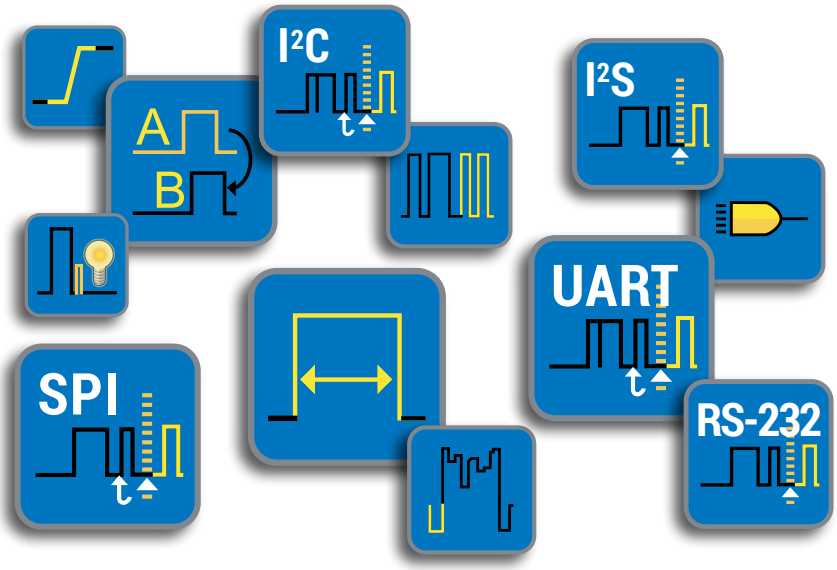


Fast Waveform Update

- An update rate of over 130,000 waveforms per second will easily display random or infrequent events
- Changes over time can be seen with the intensity graded persistence display

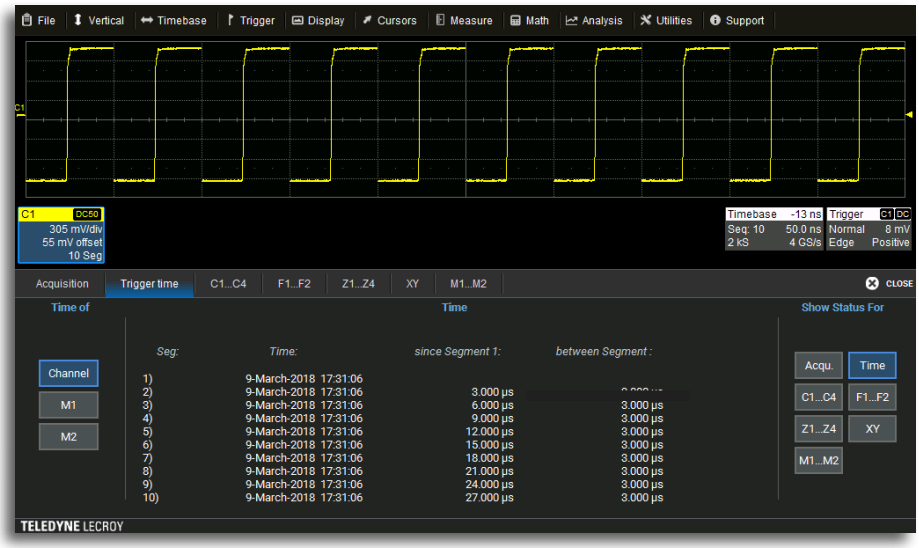
History Mode Waveform Playback

- View previous waveforms to discover past anomalies
- Use cursors and measurement parameters to quickly identify the source of problems
- History mode is always enabled and accessible through the click of a button



Powerful Triggering

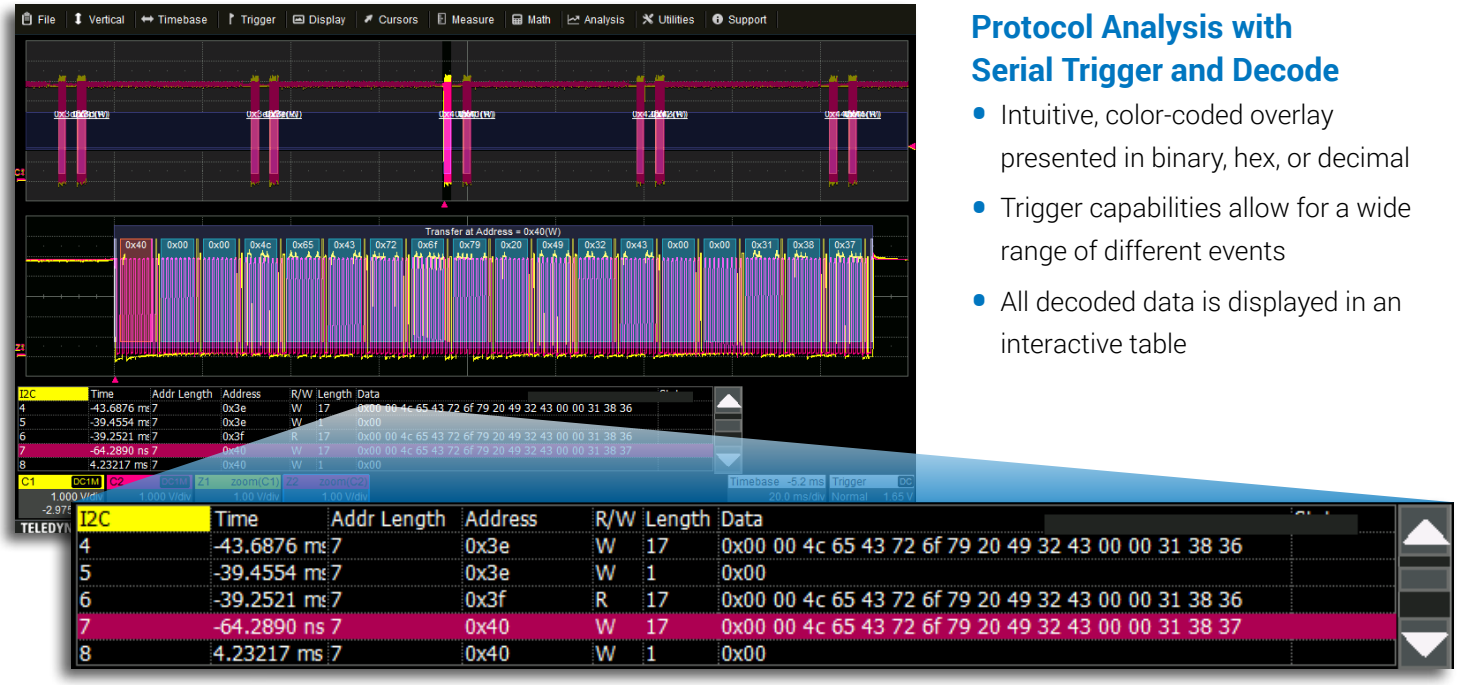
- Basic triggering such as edge or width can be used for everyday solutions
- Qualified triggering enables the ability to trigger across multiple channels
- Powerful logic triggering can be setup to catch a parallel pattern
- Smart triggers such as runt, dropout, or interval help isolate anomalies quickly
- Serial data triggering adds protocol specific triggers



Advanced Waveform Capture with Segmented Memory

- Save waveforms into segmented memory
- Capture fast pulses in quick succession or events separated by long time intervals
- Combine Sequence mode with advanced triggers to isolate rare events

MULTI-INSTRUMENT CAPABILITIES



Protocol Analysis with Serial Trigger and Decode

- Intuitive, color-coded overlay presented in binary, hex, or decimal
- Trigger capabilities allow for a wide range of different events
- All decoded data is displayed in an interactive table

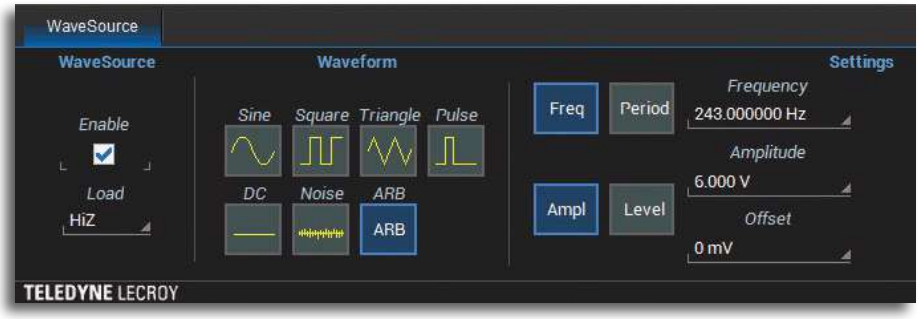
Precise Measurements with Digital Voltmeter

- 4-digit digital voltmeter
- 5-digit frequency counter
- Any channel can be selected as a source
- Voltage readings can be set to DC, DC RMS, or AC RMS
- Measurements will continue to be updated even when triggering 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

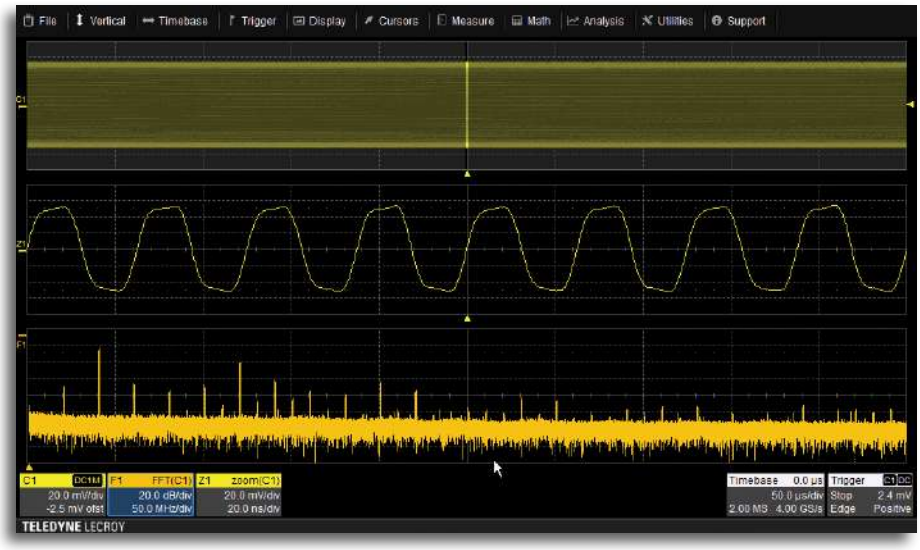
- Simultaneously view, measure, and analyze both analog and 16 digital signals
- Analog and digital channels can be incorporated into a single pattern trigger
- WaveScan, trends, statistics, and histicons provide insight to find anomalies in digital waveforms



Waveform Generation with Built-in Function Generator

- Frequencies of up to 25 MHz
- Waveform Options: sine, square, pulse, ramp, triangle, noise and DC waveforms
- Rear panel BNC output
- Saved waveforms can be uploaded into the WaveSource to generate arbitrary waveforms

POWERFUL, DEEP TOOLBOX

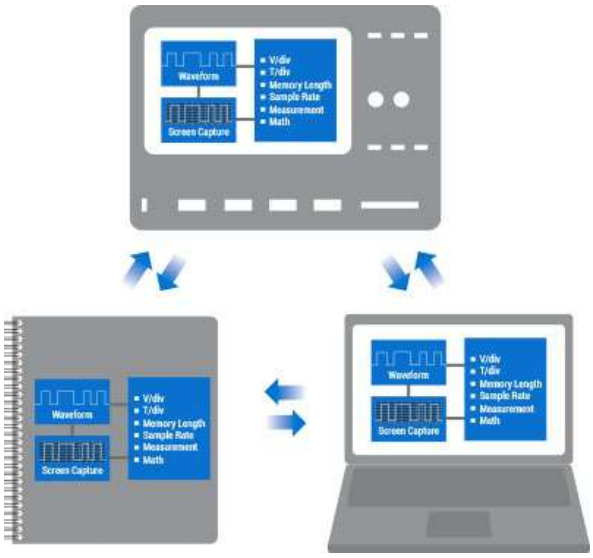


Advanced Math Capabilities

- A deep set of 20 math functions provide quick insight into waveforms
- Dedicated Grid for Math Traces
- Any Channel, Measurement, or Analysis Package can have a math function applied

Superior Measurement Tools

- 24 measurement parameters
- Additional statistics and histicons can be applied to each parameter
- Trends can be displayed for any measurement



LabNotebook Documentation Tool

- Save all displayed waveforms, oscilloscope setup file, and a screen image with a single button press
- Recall LabNotebook files onto the oscilloscope
- View the LabNotebook files on a PC using WaveStudio

PROBES

Teledyne LeCroy offers an extensive range of probes to meet virtually every probing need.

ZS Series High Impedance Active Probes (1 GHz - 1.5 GHz)

The active voltage probe can become the everyday probe for all different types of signals and connection points.

Differential Probes (200 MHz – 1.5 GHz)

These active differential probes are ideal for applications such as automotive electronics and data communications.

Active Voltage/Power Rail Probe (4 GHz)

The Active Rail Probe is specifically designed to probe a low impedance power/voltage rail.

High Voltage Fiber Optically-isolated Probes

The HVFO108 is ideal for measurement of small signals floating on an HV bus in power electronics designs or for EMC, EFT, ESD, and RF immunity testing sensor monitoring.

High Voltage Differential Probes (120 MHz)

HVDs are rated for wide differential voltage swings - ideal for power electronics circuits.

High Voltage Passive Probes

High Voltage Single-ended passive probes that are ideal for lightning/surge or EFT testing, or for probing in-circuit beyond the range of a LV-rate passive probe.

Current Probes (100 MHz)

Current probes with peak currents of 700 A and sensitivities to 1 mA/div. Ideal for component or power conversion system input/output measurements.

Probe and Current Sensor Adapters

TPA10 adapts supported Tektronix TekProbe-compatible probes to Teledyne LeCroy ProBus interface.

SPECIFICATIONS

	WaveSurfer 3014z	WaveSurfer 3024z	WaveSurfer 3034z	WaveSurfer 3054z	WaveSurfer 3104z
Analog - Vertical					
Analog Bandwidth @ 50Ω (-3dB)	100 MHz	200 MHz	350 MHz	500 MHz	1 GHz
Rise time	3.5 ns (typical)	1.75 ns (typical)	1 ns (typical)	800 ps (typical)	430 ps (typical)
Input Channels	4				
Vertical Resolution	8-bits; up to 11-bits with enhanced resolution (ERES)				
Sensitivity	50 Ω: 1mV/div - 1 V/div; 1 MΩ: 1 mV/div - 10 V/div				
DC Gain Accuracy	±(1.5%) Full Scale, Offset at 0V, > 5mV/div; ±(2.5%) < 5 mV/div				
BW Limit	20 MHz		20 MHz, 200 MHz		
Maximum Input Voltage	50 Ω: 5 Vrms, ±10 V Peak; 1 MΩ: 400 V max (DC + Peak AC ≤ 10 kHz)				
Input Coupling	50 Ω: DC, GND; 1 MΩ: AC, DC, GND				
Input Impedance	50 Ω ±2.0%, 1 MΩ ±2.0% || 16 pF				
Offset Range	50 Ω: 1 mV - 19.8 mV: ±2 V, 20 mV - 100 mV: ±5 V, 102 mV - 198 mV: ±20 V, 200 mV - 1 V: ±50 V 1 MΩ: 1 mV - 19.8 mV: ±2 V, 20 mV - 100 mV: ±5 V, 102 mV - 198 mV: ±20 V, 200 mV - 1 V: ±50 V, 1.02 V - 1.98 V: ±200 V, 2 V - 10 V: ±400 V				
Offset Accuracy	±(1.0% of offset value + 1.5%FS + 1 mV)				
Analog - Acquisition					
Sample Rate (Single-shot)	1 GS/s (2 GS/s interleaved)	2 GS/s (4 GS/s interleaved)			
Sample Rate (Repetitive)	50 GS/s				
Standard Memory (4 Ch / 2 Ch)	10 Mpts / 20 Mpts				
Acquisition Modes	Real Time, Roll, RIS (Random Interleaved Sampling), Sequence (Segmented Memory up to 1,000 segments with 1µs minimum intersegment time)				
Real Time Timebase Range	5 ns/div - 100 s/div	2 ns/div - 100 s/div		1 ns/div - 100 s/div	500 ps/div - 100 s/div
RIS Mode Timebase Range	5 ns/div - 10 ns/div	2 ns/div - 10 ns/div		1 ns/div - 10 ns/div	500 ps/div - 10 ns/div
Roll Mode Timebase Range	Up to 100 s/div (roll mode is user selectable at ≥ 50 ms/div)				
Timebase Accuracy	±10 ppm measured over > 1ms interval				
Digital - Vertical and Acquisition (WS3K-MSO Option Only)					
Input Channels	16 Digital Channels				
Threshold Groupings	Pod 2: D15 - D8, Pod 1: D7 - D0				
Threshold Selections	TTL(+1.4V), 5V CMOS (+2.5V), ECL (-1.3V) or User Defined				
Maximum Input Voltage	±30V Peak				
Threshold Accuracy	±(3% of threshold setting + 100mV)				
Input Dynamic Range	±20V				
Minimum Input Voltage Swing	500mVpp				
Input Impedance (Flying Leads)	100 kΩ || 5 pF				
Maximum Input Frequency	125 MHz				
Sample Rate	500 MS/s				
Record Length	10MS - 16 Channels				
Minimum Detectable Pulse Width	4 ns				
Channel-to-Channel Skew	± (1 digital sample interval)				
User defined threshold range	±10V in 20mV steps				
Trigger System					
Modes	Auto, Normal, Single, Stop				
Sources	Any input channel, External, Ext/5, or line; slope and level unique to each source (except for line trigger)				
Coupling	DC, AC, HFREJ, LFREJ				
Pre-trigger Delay	0-100% of full scale				
Post-trigger Delay	0-10,000 Divisions				
Hold-off	10ns up to 20s or 1 to 100,000,000 events				
Internal Trigger Level Range	±4.1 Divisions				
External Trigger Level Range	Ext: ±610mV, Ext/5: ±3.05V				
Trigger Types	Edge, Width, Logic (Pattern), TV (NTSC, PAL, SECAM, HDTV - 720p, 1080i, 1080p), Runt, Slew Rate, Interval (Signal or Pattern), Dropout, Qualified (State or Edge); External and Ext/5 support edge trigger only.				
Measure, Zoom and Math Tools					
Measurement Parameters	Up to 6 of the following parameters can be calculated at one time on any waveform: Amplitude, Area, Base, Delay, Duty Cycle, Fall Time (90%–10%), Fall Time (80%–20%), Frequency, Maximum, Mean, Minimum, Overshoot+, Overshoot-, Peak-Peak, Period, Phase, Rise Time (10%–90%), Rise Time (20%–80%), RMS, Skew, Standard Deviation, Top, Width+, Width-. Statistics and histicons can be added to measurements. Measurements can be gated.				
Zooming	Use front panel QuickZoom button, or use touch screen or mouse to draw a box around the zoom area.				
Math Functions	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 (5mm) per channel		One PP020 (5mm) per channel		
Probing System	BNC and Teledyne LeCroy ProBus for Active voltage, current and differential probes				

SPECIFICATIONS

	WaveSurfer 3014z	WaveSurfer 3024z	WaveSurfer 3034z	WaveSurfer 3054z	WaveSurfer 3104z

Display System

Display Size	10.1" widescreen capacitive touch screen
Display Resolution	1024 x 600

Connectivity

Ethernet Port	10/100Base-T Ethernet interface (RJ-45 connector)
Removable Storage	(1) MicroSD Port - 16 GB micro SD card installed standard
USB Host Ports	(4) USB 2.0 Ports Total – (2) Front USB 2.0 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	VICP and LXI compatible

Power Requirements

Voltage	100 - 240 VAC ± 10% at 50-60 Hz +/-5%; 100 - 120 VAC ± 10% at 400 Hz +/- 5%; Automatic AC Voltage Selection
Power Consumption (Nominal)	80 W / 80 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 humidity (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 ≤ 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 2014/35/EU; EN 61010-1:2010, EN 61010-2-030:2010 EMC Directive 2014/30/EU; 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	AC_{rms}, DC, DC_{rms}, 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

WaveSource Function Generator (optional)

General

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

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 Ω ± 2%
Protection	Short-circuit protection

Sine Spectrum Purity

SFDR (Non Harmonic) @1.265Vpp	
DC-1 MHz	-60dBc
1 MHz - 5 MHz	-55dBc
5 MHz - 25 MHz	-50dBc
Harmonic Distortion @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
WaveSurfer 3000z Oscilloscopes	
100 MHz, 2 GS/s, 4 Ch, 10 Mpts/Ch with 10.1" Capacitive Touch Screen Display 20 Mpts /Ch in interleaved mode	WaveSurfer 3014z
200 MHz, 4 GS/s, 4 Ch, 10 Mpts/Ch with 10.1" Capacitive Touch Screen Display 20 Mpts /Ch in interleaved mode	WaveSurfer 3024z
350 MHz, 4 GS/s, 4 Ch, 10 Mpts/Ch with 10.1" Capacitive Touch Screen Display 20 Mpts /Ch in interleaved mode	WaveSurfer 3034z
500 MHz, 4 GS/s, 4 Ch, 10 Mpts/Ch with 10.1" Capacitive Touch Screen Display 20 Mpts /Ch in interleaved mode	WaveSurfer 3054z
1 GHz, 4 GS/s, 4 Ch, 10 Mpts/Ch with 10.1" Capacitive Touch Screen Display 20 Mpts /Ch in interleaved mode	WaveSurfer 3104z

Included with Standard Configurations

÷10 Passive Probe (Total of 1 Per Channel), 1 Micro SD card (Installed), Micro SD card adapter, Protective Front Cover, Getting Started Guide, Commercial NIST Traceable Calibration with Certificate, Power Cable for the Destination Country, 3-year Warranty

General Accessories	
External GPIB Accessory	USB2-GPIB
Soft Carrying Case	WS3K-SOFTCASE
Rack Mount Accessory	WS3K-RACK
Multi-Instrument Options	
MSO software option and 16 Channel Digital probe leadset	WS3K-MSO
MSO License (MS Probe Not Included)	WS3K-MSO-LICENSE
Function Generator Option	WS3K-FG
Spectrum Analyzer for WaveSurfer 3000z	WS3K-SPECTRUM-1
Audiobus Trigger and Decode Option for I²S, LJ, RJ, and TDM	WS3K-Audiobus TD
CAN and LIN Trigger and Decode Option	WS3K-AUTO
CAN FD Trigger and Decode Option	WS3K-CAN FDbus TD
I²C, SPI, UART and RS-232 Trigger and Decode Option	WS3K-EMB
FlexRay Trigger and Decode Option	WS3K-FlexRaybus TD
Power Analysis Option	WS3K-PWR

Product Description	Product Code
Probes	
250 MHz Passive Probe 10:1, 10 MΩ	PP019
500 MHz Passive Probe 10:1, 10 MΩ	PP020
700 V, 15 MHz High-Voltage Differential Probe	AP031
Power/Voltage Rail Probe. 4 GHz bandwidth, 1.2x attenuation, ±30V offset, ±800mV	RP4030
Browser for use with RP4030	RP4000-BROWSER
1,500 V, 120 MHz High-Voltage Differential Probe	HVD3106A
1kV, 80 MHz High Voltage Differential Probe with 6m cable	HVD3106A-6M
1kV, 120 MHz High Voltage Differential Probe without tip Accessories	HVD3106A-NOACC
1,500 V, 25 MHz High-Voltage Differential Probe	HVD3102A
1kV, 25 MHz High Voltage Differential Probe without tip Accessories	HVD3102A-NOACC
2kV, 120 MHz High Voltage Differential Probe	HVD3206A
2kV, 80 MHz High Voltage Differential Probe with 6m cable	HVD3206A-6M
2kV, 400 MHz High Voltage Differential Probe	HVD3220
6kV, 100 MHz High Voltage Differential Probe	HVD3605A
High Voltage Fiber Optic Probe, 150 MHz (requires accessory tip)	HVFO108
±1V (1x) Tip Accessory for HVFO103	HVFO100-1X-TIP
±5V (5x) Tip Accessory for HVFO103	HVFO100-5X-TIP
±20V (20x) Tip Accessory for HVFO103	HVFO100-20X-TIP
30 A; 100 MHz Current Probe – AC/DC; 30 $A_{rms;}$ 50 A_{peak} Pulse	CP031
30 A; 100 MHz High Sensitivity Current Probe – AC/DC; 30 $A_{rms;}$ 50 A_{peak} Pulse	CP031A
30 A; 50 MHz Current Probe – AC/DC; 30 $A_{rms;}$ 50 A_{peak} Pulse	CP030
30 A, 10 MHz Current Probe - AC/DC, 30 A rms, 50 A_{Peak} Pulse, 3 meter cable	CP030-3M
30 A; 50 MHz High Sensitivity Current Probe – AC/DC; 30 $A_{rms;}$ 50 A_{peak} Pulse	CP030A
150 A; 10 MHz Current Probe – AC/DC; 150 $A_{rms;}$ 500 A_{peak} Pulse	CP150
150 A, 5 MHz Current Probe - AC/DC, 150 A rms, 500 A_{Peak} Pulse, 6 meter cable	CP150-6M
500 A; 2 MHz Current Probe – AC/DC; 500 $A_{rms;}$ 700 A_{peak} Pulse	CP500
Deskew Calibration Source for CP031, CP030 and AP015	DCS025
500 MHz Differential Probe	AP033
200 MHz, 3.5 pF, 1 MΩ Active Differential Probe, ±20 V, 60V common-mode	ZD200
1 GHz, 1.0 pF, 1 MΩ Active Differential Probe, ±8 V, 10V common-mode	ZD1000
1.5 GHz, 1.0 pF, 1 MΩ Active Differential Probe, ±8 V, 10V common-mode	ZD1500
1 GHz, 0.9 pF, 1 MΩ High Impedance Active Probe	ZS1000
1.5 GHz, 0.9 pF, 1 MΩ High Impedance Active Probe	ZS1500
100:1 400 MHz 50 MΩ 1 kV High-voltage Probe	HVP120
2 kV HV Probe, 6 kV overvoltage capability	PPE6KV-A
500 MHz 60 V Common Mode Differential Probe. Includes standard set of leads and tips.	DL05-HCM
1 GHz 60 V Common Mode Differential Probe. Includes standard set of leads and tips.	DL10-HCM
Probe Adapters	
TekProbe to ProBus Probe Adapter	TPA10

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

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