

Test & Measurement



For more information, please contact:



HDO6000 AND HDO4000 OSCILLOSCOPES



Debug in High Definition

200 MHz – 1 GHz

Combining Teledyne LeCroy's HD4096 high definition technology, with long memory, a compact form factor, 12.1" wide touch screen display, powerful debug tools, and mixed signal capability, the HDO is the ideal oscilloscope for precise measurements and quick debug.



Oscilloscopes with HD4096 12-bit technology can see cleaner, crisper waveforms with more signal details and make more precise measurements than traditional 8-bit oscilloscopes

HD4096 Technology

HD4096 high definition technology is built on high sample rate 12-bit ADCs which enables HDO oscilloscopes to capture and display signals of up to 1 GHz with high sample rate and 16 times more resolution than other oscilloscopes



View and measure analog, digital and serial data signals in one place.

WaveScan

Quickly search analog or digital waveforms for runts, glitches or other anomalies

LabNotebook

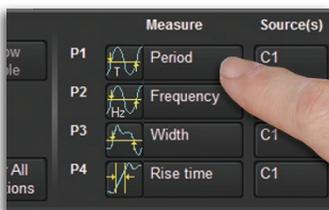
Save all results and data with a single button press and create custom reports

History Mode

Use History Mode to scroll back in time to isolate anomalies and quickly find the source of the problem

Embedded System Test Tools and Software Options

Powerful MSO capabilities plus a wide range of serial data trigger and decode capabilities as well as options including Spectrum Analyzer, Power Analysis, PROTObus MAG Serial Data Toolkit and JITKIT Clock Data Jitter Analysis



Easily control channels, trigger, math and measurements with the large touch screen display and intuitive interface.

Key Specifications

Bandwidth	200 MHz, 350 MHz, 500 MHz, 1 GHz
Resolution	12-bit ADC resolution, 15-bit with ERES
Channels	2, 4, 2 + 16 or 4 + 16
Memory	Up to 250 Mpts/Ch
Sample Rate	2.5 GS/s
Digital Sample Rate	1.25 GS/s
Minimum Pulse Width	2 ns
Connectivity	USB, LAN, GPIB
Display	12.1" Color WXGA with Touch Screen



Learn More:
teledynelecroy.com/hdo

WAVERUNNER® 6 Zi OSCILLOSCOPES

**Excellent Signal Fidelity,
Most Analysis Tools**

400 MHz – 4 GHz

The WaveRunner 6 Zi oscilloscope is the most versatile scope in the 400 MHz to 4 GHz range. The performance is unmatched, offering deep memory, 40 GS/s sample rate, low noise, and fast operation.



Excellent Signal Fidelity

WaveRunner 6 Zi oscilloscopes feature a pristine signal path that offers unmatched signal fidelity with low noise

Comprehensive Serial Data Analysis

Over 24 trigger and decode solutions solve embedded, computer, and avionics bus problems

LabNotebook™

Save all results and data with a single button press and create custom reports

Powerful Triggering

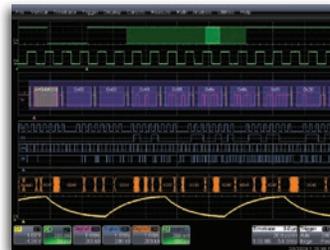
10 SMART Triggers™, 4 stage cascade, TriggerScan, and measurement trigger allow quick signal isolation

Rotating Display

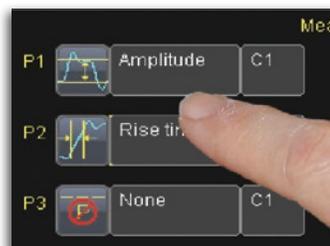
The 12.1" high resolution WXGA display can rotate 90° and tilt to provide the optimum viewing orientation and angle



Use WaveScan to search for and identify anomalies on analog or digital signals.



View and measure analog, digital and serial data signals in one place.



Easily control all aspects of the WaveRunner with the intuitive touch screen interface.

Key Specifications	
Bandwidth	400 MHz, 600 MHz, 1 GHz, 2 GHz, 2.5 GHz, 4 GHz
Resolution	8-bit
Channels	4
Memory	Up to 128 Mpts/Ch
Sample Rate	Up to 40 GS/s
Connectivity	USB, LAN, GPIB
Display	12.1" Color WXGA with Touch Screen



WAVESURFER® MXs-B & MSO MXs-B OSCILLOSCOPES



Engineered for Efficient Design and Debug

200 MHz – 1 GHz

The WaveSurfer MXs-B and MSO MXs-B oscilloscopes pack high performance hardware, powerful waveform processing and advanced math, measurement and debug tools into a compact form factor with a large touch screen display and intuitive user interface.



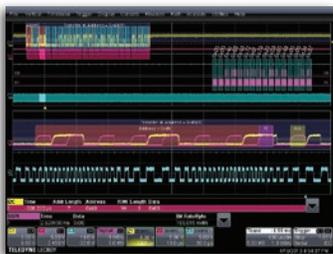
Use WaveScan to search for and identify anomalies on analog or digital signals.

Speed and Performance

10 GS/s and 32 Mpts with a responsive user interface and fast updating math and measurement tools

WaveScan

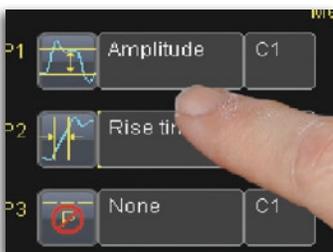
Quickly search analog or digital waveforms for runts, glitches or other anomalies



View and measure analog, digital and serial data signals in one place.

Touch Screen

Easily configure Channels, time base, trigger and all functions with the intuitive, efficient touch screen interface



Easily control all aspects of the WaveSurfer with the intuitive touch screen interface.

Embedded System Test Tools

Powerful MSO capabilities plus a wide range of serial data trigger and decode capabilities

LabNotebook

Quickly save all results plus flashback to previous tests and create custom reports



Key Specifications	
Bandwidth	200 MHz, 400 MHz, 600 MHz, 1 GHz
Channels	4 or 4 + 18
Memory	16 Mpts/Ch, 32 Mpts interleaved
Sample Rate	Up to 10 GS/s
Connectivity	USB, LAN, GPIB
Display	10.4" Color SVGA with Touch Screen

WAVEJET® OSCILLOSCOPES

Portable Performance for Debug and Validation

100 MHz – 500 MHz

The WaveJet provides the performance and feature set to shorten debug time. A compact form factor and great connectivity make WaveJet the right tool for design, debug and verification.



Big Display, Small Footprint

A large 7.5" display and a form factor only 4" deep

Replay Mode

Isolate anomalies and see how a waveform has changed over time

Connectivity

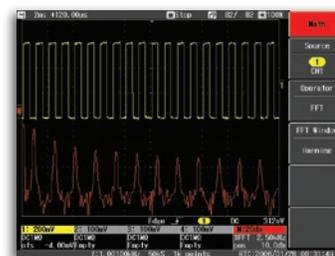
Remote control via USB, GPIB or LAN plus USB mass storage and printing

Math and Measure

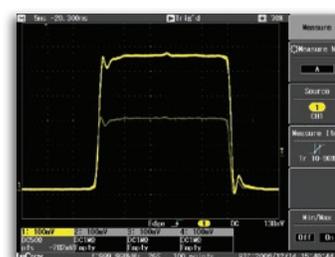
Basic math, FFT and 26 automatic measurement parameters



Speed up debugging time with 26 automatic measurements plus min/max statistics.



Perform mathematical analysis and make measurements on the resulting math trace.



Go back in time to isolate runts, glitches or other anomalies with Replay Mode.

Key Specifications	
Bandwidth	100 MHz, 200 MHz, 350 MHz, 500 MHz
Channels	2 or 4
Memory	500 kpts/Ch
Sample Rate	Up to 2 GS/s
Connectivity	USB Host, USB Device, GPIB, LAN
Display	7.5" Color VGA

 **Learn More:**
teledynelecroy.com/wavejet

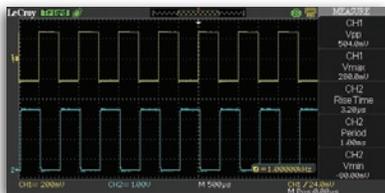
WAVEACE® OSCILLOSCOPES



Debug with Confidence

40 MHz – 300 MHz

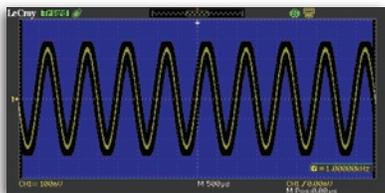
The WaveAce combines long memory, a color display, extensive measurement capabilities, advanced triggering and great connectivity to improve trouble shooting and shorten debug time.



32 parameters for making vertical, horizontal and delay measurements.

Long Capture

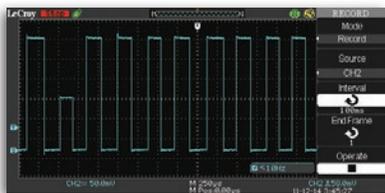
1 Mpts/Ch and 2 Mpts interleaved to capture more time and show more waveform details



Pass/Fail mask testing can quickly identify problems.

Math and Measure

4 basic math functions plus FFT and 32 automatic measurement parameters



Capture and replay a sequence of up to 2,500 waveforms to isolate that runt or glitch which is causing problems in your system.

Connectivity

USB for mass storage, printing and PC control plus LAN for fast data transfer

Pass/Fail Testing

Quickly identify failing devices and when failures occur

Large Internal Storage

Save 20 waveforms and 20 setups to the internal WaveAce memory



Key Specifications	
Bandwidth	40 MHz, 60 MHz, 70 MHz, 100 MHz, 200 MHz, 300 MHz
Channels	2 or 4
Memory	Up to 1 Mpts/Ch (2 Mpts interleaved)
Sample Rate	Up to 2 GS/s
Connectivity	USB Host, USB Device, LAN
Display	7" Color WQVGA

LOGICSTUDIO™

Point, Click, Debug

Logic analyzers are known to be slow, complicated and expensive but LogicStudio changes all this by delivering a powerful feature set, high performance hardware and an intuitive point and click user-interface.



Powerful Feature Set

Timing cursors, history mode and serial data protocol decoding help debug the most complicated problems

Easy to Use

Simple mouse operations control every aspect of the user-interface from panning and zooming waveforms to configuring the trigger

Mixed Signal

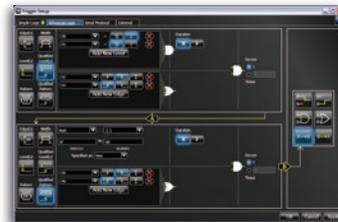
Turn your PC into an MSO by connecting LogicStudio to any of ten popular oscilloscopes from Teledyne LeCroy, Tektronix and Agilent

Serial Bus Decode and Trigger

Capture and decode I²C, SPI and UART messages



View decoded protocol information for I²C, SPI and UART busses plus trigger on data being transmitted on the serial busses.



Create powerful trigger conditions by combining edge, logic level, parallel bus and serial bus triggers.



Turn any PC into an MSO by connecting LogicStudio to any of ten popular oscilloscopes from Teledyne LeCroy, Tektronix and Agilent.

Key Specifications	
Minimum Pulse Width	3.75 ns
Channels	16
Memory	20 kpts/Ch, 40 kpts Interleaved
Sample Rate	Up to 1 GS/s
Serial Bus Tools	I ² C, SPI, UART

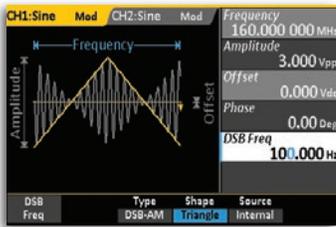
 Try It For Free at : teledynelecroy.com/logicstudio

WAVESTATION™



Powerful Combination of Performance and Flexibility

WaveStation waveform generators provide a wide range of standard and arbitrary waveforms, a variety of modulation schemes and a simple front panel for simple, powerful, flexible waveform generation.



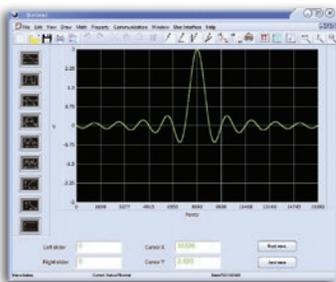
Built-in modulation capabilities include AM, PM, FM, ASK, PSK and FSK. View the modulated waveform on the display and see how it changes when varying output frequency, carrier waveform or modulation type.

High Performance and Signal Fidelity

Accurate waveform creation due to high resolution, fast sample rate, and low distortion

Extensive Waveform Library

5 basic functions and over 40 built-in arbitrary waveforms



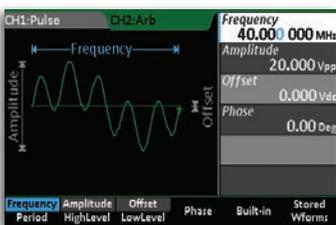
Easily create and edit waveforms on the PC with mathematical operations, filters, and point-by-point editing or draw a waveform with a mouse.

Variety of Modulation Schemes

Built-in modulation capabilities, such as, AM, PM, FM, ASK, PSK and FSK

Simple, Fast Waveform Creation

Quickly access functions from the front panel, view created waveforms and waveform parameters on the display



Quickly create basic sine, square, ramp, pulse, and noise waveforms plus over 40 advanced arbitrary waveforms.

Connectivity and Communication

USB and GPIB for simple remote control, automation and saving data

 Learn more:
teledynelecroy.com/wavestation

Key Specifications	
Bandwidth	10 MHz, 25 MHz, 50 MHz, 80 MHz, 120 MHz, 160 MHz
Channels	2
Memory	Up to 512 kpts
Sample Rate	Up to 500 MS/s
Vertical Resolution	14-bit

Powerful, Versatile Waveform Creation

ArbStudio Arbitrary Waveform Generators provide uncompromised performance, a wide variety of signal types, modulation schemes and generation modes all controlled through an intuitive software interface.



Unmatched Performance

125 MHz, 1 GS/s, 2 Mpts/Ch and 16-bit resolution

Digital Pattern Generator

ArbStudio is a mixed signal generator capable of creating patterns of up to 36 lines

Graphical User Interface

Easily see created waveforms and waveform sequences on the display of any PC

Simple Operating Modes

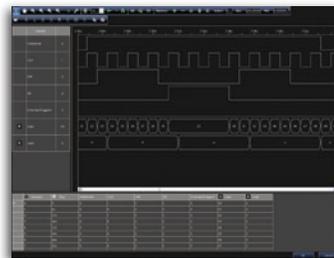
Dedicated operating modes for basic functions and PWM signals provide simplified operation

Multi-unit Synchronization

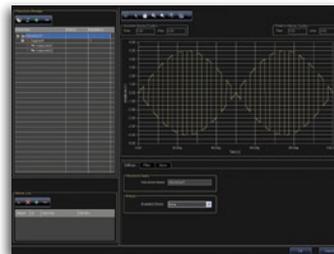
Connect up to 8 ArbStudio units and generate 32 synchronous analog channels



Quickly generate basic functions like sine, square and triangle waves with a dedicated user interface.



Create digital waveforms, patterns and busses of up to 36 channels and output analog and digital waveforms simultaneously.



Built-in modulation capabilities include AM, PM, FM, ASK, PSK, FSK and PWM.

Key Specifications	
Bandwidth	125 MHz
Channels	2, 4, 2 + 18, 4 + 36
Memory	2 Mpts/Ch
Sample Rate	1 GS/s
Vertical Resolution	16-bit

Try It For Free at:
teledynelecroy.com/arbstudio

OSCILLOSCOPE SELECTION GUIDE



**HDO6000/
HDO6000-MS**

WaveRunner 6 Zi

**HDO4000/
HDO4000-MS**

**WaveSurfer MXs-B/
MSO MXs-B**

Bandwidth	350 MHz to 1 GHz	400 MHz to 4 GHz	200 MHz to 1 GHz	200 MHz to 1 GHz
Resolution	12-bit ADC resolution, 15-bit with enhanced resolution	8-bit ADC resolution, 11-bit with enhanced resolution	12-bit ADC resolution, 15-bit with enhanced resolution	8-bit ADC resolution, 11-bit with enhanced resolution
Rise Time	1 ns to 450 ps	875 ps to 100 ps	1.75 ns to 450 ps	1.75 ns to 350 ps
Channels	4, 4 + 16	4	2, 4, 2 + 16, 4 + 16	4, 4 + 18
Display	12.1" Color WXGA Touch Screen	12.1" Color WXGA Rotating Touch Screen	12.1" Color WXGA Touch Screen	10.4" Color SVGA Touch Screen
Memory	50 Mpts/Ch	16 Mpts/Ch 32 Mpts Interleaved	12.5 Mpts/Ch 25 Mpts Interleaved	16 Mpts/Ch 32 Mpts Interleaved
Maximum Memory[†]	Up to 250 Mpts/Ch	Up to 128 Mpts/Ch	Up to 25 Mpts/Ch 50 Mpts Interleaved	–
Sample Rate	2.5 GS/s	40 GS/s	2.5 GS/s	2.5 GS/s to 10 GS/s
MSO Characteristics	250 MHz, 1.25 GS/s [†]	500 MHz, 2 GS/s [†]	250 MHz, 1.25 GS/s [†]	250 MHz, 1 GS/s [†]
Trigger Types	Edge, Width, Glitch, Pattern, Video, HDTV, Runt, Timeout, Slew Rate, Interval (Period), Dropout, Qualified, Measurement, Window, Cascade	Edge, Width, Glitch, Pattern, Video, HDTV, Runt, Timeout, Slew Rate, Interval (Period), Dropout, Qualified, Measurement, Window, Cascade	Edge, Width, Glitch, Pattern, Video, HDTV, Runt, Slew Rate, Interval (Period), Dropout, Qualified	Edge, Width, Glitch, Pattern, Video, HDTV, Runt, Slew Rate, Interval (Period), Dropout, Qualified
Serial Trigger and Decode[†]	I ² C, SPI, UART, RS-232, CAN, LIN, FlexRay, SENT, Audio, MIL-STD-1553, D-PHY, ARINC 429, DigRF 3G, DigRF v4, ENET, Manchester, NRZ, USB 1.0/1.1/2.0, USB 2.0-HSIC	I ² C, SPI, UART, RS-232, CAN, LIN, FlexRay, SENT, Audio, MIL-STD-1553, M-PHY, D-PHY, ARINC 429, DigRF 3G, DigRF v4, ENET, Manchester, NRZ, 8b/10b, SAS, SATA, Fibre Channel, PCIe, USB 1.0/1.1/2.0, USB 2.0-HSIC	I ² C, SPI, UART, RS-232, CAN, LIN, FlexRay, SENT, Audio, MIL-STD-1553, D-PHY, ARINC 429, DigRF 3G, DigRF v4, ENET, Manchester, NRZ, USB 1.0/1.1/2.0, USB 2.0-HSIC	I ² C, SPI, UART, RS-232, CAN, LIN, FlexRay, SENT, Audio, MIL-STD-1553, D-PHY, ARINC 429, DigRF 3G, DigRF v4, ENET, Manchester, NRZ, USB 1.0/1.1/2.0, USB 2.0-HSIC
Connectivity and Storage	USB Host for Storage USB Device for PC LAN for PC GPIB for PC ¹	USB Host for Storage USB Device for PC LAN for PC GPIB for PC ¹	USB Host for Storage USB Device for PC LAN for PC GPIB for PC ¹	USB Host for Storage LAN for PC GPIB for PC ¹
Math	+, -, x, /, FFT, Absolute Value, Average, Copy, Correlation, Derivative, Deskew, Envelope, Enhanced Resolution, Exponent, Floor, Histogram, Integral, Invert, Log, Phistogram, Ptrace Mean, Ptrace Range, Ptrace Sigma, Reciprocal, Rescale, Roof, Seg- ment, Sparse, Square, Square Root, Track, Trend, Zoom	+, -, x, /, FFT, Absolute Value, Average, Copy, Correlation, Derivative, Deskew, Envelope, Enhanced Resolution, Exponent, Floor, Histogram, Integral, Invert, Log, Phistogram, Ptrace Mean, Ptrace Range, Ptrace Sigma, Reciprocal, Rescale, Roof, Seg- ment, Sparse, Square, Square Root, Track, Trend, Zoom	+, -, x, /, FFT, Absolute Value, Average, Derivative, Deskew, Envelope, Enhanced Resolution, Floor, Integral, Invert, Reciprocal, Rescale, Roof, Square, Square Root, Trend, Zoom	+, -, x, /, FFT, Absolute Value, Average, Derivative, Deskew, Envelope, Enhanced Resolution, Floor, Integral, Invert, Reciprocal, Rescale, Roof, Square, Square Root, Zoom
Dimensions (HWD)	291.7 x 399.4 x 131.31 mm (11.48" x 15.72" x 5.17")	297 x 418 x 227 mm (11.6929" x 16.4567" x 8.937")	291.7 x 399.4 x 131.31 mm (11.48" x 15.72" x 5.17")	260 x 340 x 152 mm (10.25" x 13.4" x 6")
Weight	5.71 kg (12.6 lbs)	11.52 kg (25.4 lbs)	5.71 kg (12.6 lbs)	7.26 kg (16.0 lbs)



WaveJet 300A

WaveAce 2000

WaveAce 1000

Bandwidth	100 MHz to 500 MHz	70 MHz to 300 MHz	40 MHz to 100 MHz
Resolution	8-bit ADC resolution	8-bit ADC resolution	8-bit ADC resolution
Rise Time	3.5 ns to 750 ps	5.0 ns to 1.2 ns	8.8 ns to 3.5 ns
Channels	2, 4	2, 4	2
Display	7.5" Color VGA	7" Color WQVGA	7" Color WQVGA
Memory	500 kpts/Ch	12 kpts/Ch 24 kpts Interleaved	1 Mpts/Ch 2 Mpts Interleaved
Maximum Memory[†]	–	–	–
Sample Rate	1 GS/s to 2 GS/s	1 GS/s to 2 GS/s	500 MS/s to 1 GS/s
MSO Characteristics	–	–	–
Trigger Types	Edge, Width, Video, Interval (Period), Pulse Count	Edge, Width, Video, Slope, Alternate	Edge, Width, Video, Slope, Alternate
Serial Trigger and Decode[†]	–	–	–
Connectivity and Storage	USB Host for Storage USB Device for PC LAN for PC [†] GPIB for PC [†]	USB Host for Storage USB Device for PC LAN for PC	USB Host for Storage USB Device for PC
Math	+, -, x, FFT	+, -, x, /, FFT	+, -, x, /, FFT
Dimensions (HWD)	190 x 295 x 102 mm (7.5" x 11.2" x 4")	163 x 360 x 124.1 mm (6.42" x 14.17" x 4.89")	163 x 313 x 115.8 mm (6.42" x 12.32" x 4.6")
Weight	3.2 kg (7.0 lbs)	3.33 kg (7.40 lbs)	2.78 kg (6.10 lbs)

WAVESTATION™ AND ARBSTUDIO™ SPECIFICATIONS



ArbStudio

WaveStation

Number of Channels	2, 4	2
Digital Pattern Generator	18, 36 Channels	N/A
Waveforms	Sine, Cosine, Triangle, Rectangle, Sawtooth, Ramp, Pulse, Sinc, Exponential, Sweep, DC, Noise, From File, Arbitrary	Sine, Square, Ramp, Pulse, Noise, Arbitrary: Stairup, Stairdown, Positive Pulse, Negative Pulse, Up Ramp, Down Ramp, Sinc, Gaussian, LogFall, LogRise, Sqrt, TwoTone, etc
Sine Waves		
Frequency Range (Arbitrary)	2 μ Hz - 125 MHz	1 μ Hz - 160 MHz
Square Wave, Pulse (1 Vp-p)		
Frequency Range	2 μ Hz - 62.5 MHz	1 μ Hz - 50 MHz
Triangle		
Frequency Range	2 μ Hz - 31.25 MHz	1 μ Hz - 4 MHz
Ramp		
Frequency Range	2 μ Hz - 31.25 MHz	1 μ Hz - 4 MHz
Sinc (Sin(x)/x)		
Frequency Range	2 μ Hz - 15.5 MHz	NA
Waveform Sequencing		
Waveforms	All, From File, Arbitrary	All, From File, Arbitrary
Amplitude Resolution		
	< 1 mV	1 mV
Output Impedance		
	Selectable: 50 Ω , Low or High Impedance	Selectable: 50 Ω , Hi-Z
Skew Between Channels (at Common Sample Rate)		
Average (Typical)	< 300 ps	< 3 ns
Modulation		
Amplitude Modulation		
Modulation Type	Arbitrary, AM, ASK	AM, ASK
Carrier Waveform	All, From File, Arbitrary	Sine, Square, Ramp, Arbitrary (Except DC)
Modulating Waveforms	All, From File, Arbitrary	Sine, Square, Ramp, Arbitrary (2 mHz - 20 kHz)
Modulating Source	Internal	Internal / External
Modulating Waveform Sample Clock at Max. Sampling Rate	0.46 S/s - 125 MS/s	3.90625 MHz
Memory Size	2047 entries	4k x 12 bit
Phase/Frequency Modulation		
Modulation Type	Arbitrary, FM / PM, FSK, PSK	FM / PM, FSK
Carrier Waveform	All, From File, Arbitrary	Sine, Square, Ramp, Arbitrary (Except DC)
Modulating Waveforms	All, From File, Arbitrary	Sine, Square, Ramp, Arbitrary (2 mHz - 20 kHz)
Modulating Source	Internal	Internal / External
Pulse Width Modulation		
Carrier Waveform	Pulse	Pulse
Carrier Frequency	100 mHz - 20 MHz	500 μ Hz - 20 kHz
Duty Cycle Modulating Waveform	Sine, Triangle, Ramp, Noise, Manual	Sine, Square, Ramp, Arbitrary (Except DC)
Duty Cycle Modulating Frequency	10 μ Hz - 6.67 MHz	2 mHz - 20 kHz
Source	Internal	Internal / External
Pattern Generator Characteristics		
Number of Channels	18 / 36	N/A
Vector Memory Depth	1 Mpts / Ch	N/A
Acquisition Memory Depth	2 Mpts / Ch	N/A
Update Frequency	125 MS/s	N/A
Sampling Frequency	250 MS/s	N/A
Direction Control	Per Ch programmable	N/A
Output Voltage Level	1.2 V - 3.6 V	N/A
Trigger Levels	31	N/A
Operating Modes	36 Ch Digital or 4 Ch Analog or 18 Ch Digital plus 2 Ch Analog	N/A

PROBES

The right probe is an essential tool for accurate signal capture and Teledyne LeCroy offers an extensive range of probes to meet virtually every probing need.

ZS Series High Impedance Active Probes

ZS4000, ZS2500,
ZS1500, ZS1000



The ZS Series probes provide high impedance and an extensive set of probe tips and ground accessories to handle a wide range of probing scenarios. The high 1 M Ω input resistance and low input capacitance mean this probe is ideal for all frequencies. The ZS Series probes provide full system bandwidth for all Teledyne LeCroy oscilloscopes having bandwidths of 4 GHz and lower.

Differential Probes (200 MHz – 1.5 GHz)

ZD1500, ZD1000,
ZD500, ZD200



High bandwidth, excellent common-mode rejection ratio (CMRR) and low noise make these active differential probes ideal for applications such as automotive development (e.g. FlexRay) and failure analysis, as well as wireless and data communication design. The ProBus interface allows sensitivity, offset and common-mode range to be displayed on the oscilloscope screen.

High Voltage Differential Probes

AP031, ADP300, ADP305



Low cost active differential probes are intended for measuring higher voltages. The differential techniques employed permit measurements to be taken at two points in a circuit without reference to the ground, allowing the oscilloscope to be safely grounded without the use of opto-isolators or isolating transformers.

High Voltage Passive Probes

PPE1.2KV, PPE2KV,
PPE4KV, PPE5KV, PPE6KV



The PPE Series includes five fixed-attenuation probes covering a range from 2 kV to 6 kV, and one switchable probe providing $\div 10/\div 100$ attenuation for voltage inputs up to 1.2 kV. All fixed-attenuation, standard probes automatically rescale compatible Teledyne LeCroy oscilloscopes for the appropriate attenuation of the probe.

Current Probes

AP015, CP030, CP031,
CP150, CP500, DCS015



Available current probes reach bandwidths of 100 MHz, peak currents of 700 A and sensitivities of 10 mA/div. Use multiple current probes to make measurements on three-phase systems or a single current probe with a voltage probe to make instantaneous power measurements. Teledyne LeCroy current probes enable the design and testing of switching power supplies, motor drives, electric vehicles, and uninterruptible power supplies.

ORDERING INFORMATION

Product Description Product Code

HDO6000 Oscilloscopes

350 MHz, 2.5 GS/s, 4 Ch, 50 Mpts/Ch 12-bit HD Oscilloscope with 12.1" Color WXGA Touch Display	HDO6034
500 MHz, 2.5 GS/s, 4 Ch, 50 Mpts/Ch 12-bit HD Oscilloscope with 12.1" Color WXGA Touch Display	HDO6054
1 GHz, 2.5 GS/s, 4 Ch, 50 Mpts/Ch 12-bit HD Oscilloscope with 12.1" Color WXGA Touch Display	HDO6104
350 MHz 2.5 GS/s,4+16Ch,50 Mpts/Ch 12-bit HD Mixed Signal Oscilloscope with 12.1" WXGA Color Display	HDO6034-MS
500 MHz 2.5 GS/s,4+16Ch,50 Mpts/Ch 12-bit HD Mixed Signal Oscilloscope with 12.1" WXGA Color Display	HDO6054-MS
1 GHz 2.5 GS/s,4+16Ch,50 Mpts/Ch 12-bit HD Mixed Signal Oscilloscope with 12.1" WXGA Color Display	HDO6104-MS

WaveRunner Oscilloscopes

400 MHz, 10 GS/s, 4 Ch, 16 Mpts/Ch DSO with 12.1" WXGA Color Display. 50 Ω and 1 M Ω Input 20 GS/s and 32 Mpts/Ch in Interleaved Mode	WaveRunner 604Zi
600 MHz, 10 GS/s, 4 Ch, 16 Mpts/Ch DSO with 12.1" WXGA Color Display. 50 Ω and 1 M Ω Input 20 GS/s and 32 Mpts/Ch in Interleaved Mode	WaveRunner 606Zi
1 GHz, 10 GS/s, 4 Ch, 16 Mpts/Ch DSO with 12.1" WXGA Color Display. 50 Ω and 1 M Ω Input 20 GS/s and 32 Mpts/Ch in Interleaved Mode	WaveRunner 610Zi
2 GHz, 10 GS/s, 4 Ch, 16 Mpts/Ch DSO with 12.1" WXGA Color Display. 50 Ω and 1 M Ω Input 20 GS/s and 32 Mpts/Ch in Interleaved Mode	WaveRunner 620Zi
2.5 GHz, 20 GS/s, 4 Ch, 16 Mpts/Ch DSO with 12.1" WXGA Color Display. 50 Ω and 1 M Ω Input 40 GS/s and 32 Mpts/Ch in Interleaved Mode	WaveRunner 625Zi
4 GHz, 20 GS/s, 4 Ch, 16 Mpts/Ch DSO with 12.1" WXGA Color Display. 50 Ω and 1 M Ω Input 40 GS/s and 32 Mpts/Ch in Interleaved Mode	WaveRunner 640Zi

HDO4000 Oscilloscopes

200 MHz, 2.5 GS/s, 2 Ch, 12.5 Mpts/Ch 12-bit HD Oscilloscope with 12.1" Color WXGA Touch Display	HDO4022
200 MHz, 2.5 GS/s, 4 Ch, 12.5 Mpts/Ch 12-bit HD Oscilloscope with 12.1" Color WXGA Touch Display	HDO4024
350 MHz, 2.5 GS/s, 2 Ch, 12.5 Mpts/Ch 12-bit HD Oscilloscope with 12.1" Color WXGA Touch Display	HDO4032
350 MHz, 2.5 GS/s, 4 Ch, 12.5 Mpts/Ch 12-bit HD Oscilloscope with 12.1" Color WXGA Touch Display	HDO4034
500 MHz, 2.5 GS/s, 4 Ch, 12.5 Mpts/Ch 12-bit HD Oscilloscope with 12.1" Color WXGA Touch Display	HDO4054
1 GHz, 2.5 GS/s, 4 Ch, 12.5 Mpts/Ch 12-bit HD Oscilloscope with 12.1" Color WXGA Touch Display	HDO4104
200 MHz, 2.5 GS/s, 2+16ch, 12.5 Mpts/Ch 12-bit HD Mixed Signal Oscilloscope w/ 12.1" Color WXGA Display	HDO4022-MS
200 MHz, 2.5 GS/s, 4+16ch, 12.5 Mpts/Ch 12-bit HD Mixed Signal Oscilloscope w/ 12.1" Color WXGA Display	HDO4024-MS
350 MHz, 2.5 GS/s, 2+16ch, 12.5 Mpts/Ch 12-bit HD Mixed Signal Oscilloscope w/ 12.1" Color WXGA Display	HDO4032-MS
350 MHz, 2.5 GS/s, 4+16ch, 12.5 Mpts/Ch 12-bit HD Mixed Signal Oscilloscope w/ 12.1" Color WXGA Display	HDO4034-MS
500 MHz, 2.5 GS/s, 4+16ch, 12.5 Mpts/Ch 12-bit HD Mixed Signal Oscilloscope w/ 12.1" Color WXGA Display	HDO4054-MS
1 GHz, 2.5 GS/s, 4+16ch, 12.5 Mpts/Ch 12-bit HD Mixed Signal Oscilloscope w/ 12.1" Color WXGA Display	HDO4104-MS

Product Description Product Code

WaveSurfer MXs-B and MSO MXs-B Oscilloscopes

200 MHz, 2.5 GS/s, 4 Ch, 16 Mpts/Ch DSO with 10.4" Color SVGA Touch Screen Display. 32 Mpts Interleaved	WaveSurfer 24MXs-B
400 MHz, 5 GS/s, 4 Ch, 16 Mpts/Ch DSO with 10.4" Color SVGA Touch Screen Display. 32 Mpts Interleaved	WaveSurfer 44MXs-B
600 MHz, 5 GS/s, 4 Ch, 16 Mpts/Ch DSO with 10.4" Color SVGA Touch Screen Display. 10 GS/s, 32 Mpts Interleaved	WaveSurfer 64MXs-B
1 GHz, 5 GS/s, 4 Ch, 16 Mpts/Ch DSO with 10.4" Color SVGA Touch Screen Display. 10 GS/s, 32 Mpts Interleaved	WaveSurfer 104MXs-B
400 MHz, 5 GS/s, 4+18 Ch, 16 Mpts/Ch MSO with 10.4" Color SVGA Touch Screen Display. 32 Mpts Interleaved	MSO 44MXs-B
600 MHz, 5 GS/s, 4+18 Ch, 16 Mpts/Ch MSO with 10.4" Color SVGA Touch Screen Display. 10 GS/s, 32 Mpts Interleaved	MSO 64MXs-B
1 GHz, 5 GS/s, 4+18 Ch, 16 Mpts/Ch MSO with 10.4" Color SVGA Touch Screen Display. 10 GS/s, 32 Mpts Interleaved	MSO 104MXs-B

WaveJet Oscilloscopes

500 MHz, 1 GS/s, 4 Ch, 500 kpts/Ch with 7.5" Color VGA Display. 2 GS/s Interleaved	WaveJet 354A
350 MHz, 1 GS/s, 4 Ch, 500 kpts/Ch with 7.5" Color VGA Display. 2 GS/s Interleaved	WaveJet 334A
200 MHz, 1 GS/s, 4 Ch, 500 kpts/Ch with 7.5" Color VGA Display. 2 GS/s Interleaved	WaveJet 324A
200 MHz, 1 GS/s, 2 Ch, 500 kpts/Ch with 7.5" Color VGA Display. 2 GS/s Interleaved	WaveJet 322A
100 MHz, 1 GS/s, 4 Ch, 500 kpts/Ch with 7.5" Color VGA Display	WaveJet 314A
100 MHz, 1 GS/s, 2 Ch, 500 kpts/Ch with 7.5" Color VGA Display	WaveJet 312A

WaveAce Oscilloscopes

40 MHz, 500 MS/s, 2 Ch, 1 Mpts/Ch with 7" Color WQVGA Display. 1 GS/s Interleaved, 1 M Ω Input	WaveAce 1001
60 MHz, 500 MS/s, 2 Ch, 1 Mpts/Ch with 7" Color WQVGA Display. 1 GS/s Interleaved, 1 M Ω Input	WaveAce 1002
100 MHz, 500 MS/s, 2 Ch, 1 Mpts/Ch with 7" Color WQVGA Display. 1 GS/s Interleaved, 1 M Ω Input	WaveAce 1012
70 MHz, 1 GS/s, 2 Ch, 12 kpts/Ch with 7" Color WQVGA Display. 24 kpts, 2 GS/s Interleaved, 1 M Ω Input	WaveAce 2002
70 MHz, 1 GS/s, 4 Ch, 12 kpts/Ch with 7" Color WQVGA Display. 24 kpts, 2 GS/s Interleaved, 1 M Ω Input	WaveAce 2004
100 MHz, 1 GS/s, 2 Ch, 12 kpts/Ch with 7" Color WQVGA Display. 24 kpts, 2 GS/s Interleaved, 1 M Ω Input	WaveAce 2012
100 MHz, 1 GS/s, 4 Ch, 12 kpts/Ch with 7" Color WQVGA Display. 24 kpts, 2 GS/s Interleaved, 1 M Ω Input	WaveAce 2014
200 MHz, 1 GS/s, 2 Ch, 12 kpts/Ch with 7" Color WQVGA Display. 24 kpts, 2 GS/s Interleaved, 50/1 M Ω Input	WaveAce 2022
200 MHz, 1 GS/s, 4 Ch, 12 kpts/Ch with 7" Color WQVGA Display. 24 kpts, 2 GS/s Interleaved, 50/1 M Ω Input	WaveAce 2024
300 MHz, 1 GS/s, 2 Ch, 12 kpts/Ch with 7" Color WQVGA Display. 24 kpts, 2 GS/s Interleaved, 50/1 M Ω Input	WaveAce 2032
300 MHz, 1 GS/s, 4 Ch, 12 kpts/Ch with 7" Color WQVGA Display. 24 kpts, 2 GS/s Interleaved, 50/1 M Ω Input	WaveAce 2034

ORDERING INFORMATION

Product Description Product Code

Logic Studio Logic Analyzer

16 Channel, 1 GS/s, 100 MHz USB Logic Analyzer LogicStudio 16

ArbStudio Arbitrary Waveform Generators

2 Ch 16-bit 1 GS/s Arbitrary Waveform Generator ArbStudio 1102

2 Ch 16-bit 1 GS/s Arbitrary Waveform and Digital Pattern Generator ArbStudio 1102D

4 Ch 16-bit 1 GS/s Arbitrary Waveform Generator ArbStudio 1104

4 Ch 16-bit 1 GS/s Arbitrary Waveform and Digital Pattern Generator ArbStudio 1104D

WaveStation Function/Arbitrary Waveform Generators

10 MHz, 2 Ch, 14-bit, 125 MS/s Function/Arbitrary Waveform Generator with 3.5" Display WaveStation 2012

25 MHz, 2 Ch, 14-bit, 125 MS/s Function/Arbitrary Waveform Generator with 3.5" Display WaveStation 2022

50 MHz, 2 Ch, 14-bit, 125 MS/s Function/Arbitrary Waveform Generator with 3.5" Display WaveStation 2052

80 MHz, 2 Ch, 14 bit, 500 MS/s Function/Arbitrary Waveform Generator with 4.3" Display WaveStation 3082

120 MHz, 2 Ch, 14 bit, 500 MS/s Function/Arbitrary Waveform Generator with 4.3" Display WaveStation 3122

160 MHz, 2 Ch, 14 bit, 500 MS/s Function/Arbitrary Waveform Generator with 4.3" Display WaveStation 3162

Probes for WaveRunner 6 Zi

Passive Probes

2.5 mm \pm 10, 500 MHz 10 M Ω Passive Probe PP008

5 mm \pm 10, 500 MHz 10 M Ω Passive Probe PP009

Active Probes

1 GHz, 0.9 pF, 1 M Ω High Impedance Active Probe ZS1000

1.5 GHz, 0.9 pF, 1 M Ω High Impedance Active Probe ZS1500

2.5 GHz, 0.9 pF, 1 M Ω High Impedance Active Probe ZS2500

4 GHz, 0.6 pF, 1 M Ω High Impedance Active Probe ZS4000

Differential Probes

1,400 V, 20 MHz High-Voltage Differential Probe ADP300

1,400 V, 100 MHz High-Voltage Differential Probe ADP305

200 MHz, 3.5 pF, 1 M Ω Active Differential Probe ZD200

500 MHz, 1.0 pF, 1 M Ω Active Differential Probe ZD500

1 GHz, 1.0 pF, 1 M Ω Active Differential Probe ZD1000

1.5 GHz, 1.0 pF, 1 M Ω Active Differential Probe ZD1500

WaveLink 3 GHz Differential Amplifier Module with Adjustable Tip D300A-AT

WaveLink 6 GHz Differential Amplifier Module with Adjustable Tip D600A-AT

WaveLink 4 GHz, 2.5 Vp-p Differential Probe System D410-PS

WaveLink 4 GHz, 5 Vp-p Differential Probe System D420-PS

WaveLink ProBus Platform/Cable Assembly (4 GHz) WL-PBus-CASE

Differential Amplifiers

1 Ch, 100 MHz Differential Amplifier with Precision Voltage Source DA1855A

DA1855A with Rackmount DA1855A-RM

2 Ch, 100 MHz Differential Amplifier with Precision Voltage Source DA1855A-PR2

DA1855A with Rackmount DA1855A-PR2-RM
(must be ordered at time of purchase, no retrofit)

Current Probes

30 A; 50 MHz Current Probe – AC/DC; 30 A_{rms}; 50 A_{peak} Pulse AP015

30 A; 50 MHz Current Probe – AC/DC; 30 A_{rms}; 50 A_{peak} Pulse CP030

30 A; 100 MHz Current Probe – AC/DC; 30 A_{rms}; 50 A_{peak} Pulse CP031

150 A; 10 MHz Current Probe – AC/DC; 150 A_{rms}; 500 A_{peak} Pulse CP150

500 A; 2 MHz Current Probe – AC/DC; 500 A_{rms}; 700 A_{peak} Pulse CP500

Deskew Calibration Source for Current and Differential Probes DCS015

Product Description Product Code

Probes for WaveRunner 6 Zi (Cont'd)

High-Voltage Probes

10:1/100:1 200/300 MHz 50 M Ω High-Voltage Probe PPE1.2KV
600 V/1.2 kV Max. Volt. DC

100:1 400 MHz 50 M Ω 2 kV High-Voltage Probe PPE2KV

100:1 400 MHz 50 M Ω 4 kV High-Voltage Probe PPE4KV

1000:1 400 MHz 50 M Ω 5 kV High-Voltage Probe PPE5KV

1000:1 400 MHz 50 M Ω 6 kV High-Voltage Probe PPE6KV

Optical Probes

Optical-to-Electrical Converter, 500-870 nm ProBus BNC Connector OE425

Optical-to-Electrical Converter, 950-1630 nm ProBus BNC Connector OE455

Probes for HDO6000, HDO4000, WaveSurfer MXs-B and MSO MXs-B

Passive Probes

500 MHz 10:1, 10 M Ω Passive Probe for 200 MHz, 400 MHz and 600 MHz WaveSurfer and MSO Oscilloscopes PP009

500 MHz 10:1, 10 M Ω Passive Probe for 1 GHz WaveSurfer and MSO Oscilloscopes PP011

250 MHz Passive Probe for HDO4000, 10:1, 10 M Ω PP017

500 MHz Passive Probe for HDO6000 and HDO4000, 10:1, 10 M Ω PP018

Active Probes

1.0 GHz, 0.9 pF, 1 M Ω Active Voltage Probe ZS1000

1.5 GHz, 0.9 pF, 1 M Ω Active Voltage Probe ZS1500

Differential Probes

1,400 V, 20 MHz High-Voltage Differential Probe ADP300

1,400 V, 100 MHz High-Voltage Differential Probe ADP305

200 MHz, 3.5 pF, 1 M Ω Active Differential Probe ZD200

500 MHz, 1.0 pF, 1 M Ω Active Differential Probe ZD500

1 GHz, 1.0 pF, 1 M Ω Active Differential Probe ZD1000

1.5 GHz, 1.0 pF, 1 M Ω Active Differential Probe ZD1500

Differential Amplifiers

1 Ch, 100 MHz Differential Amplifier DA1855A

100:1 or 10:1 Selectable, 250 MHz Passive Differential Probe Pair DXC100A

Current Probes

30 A; 50 MHz Current Probe – AC/DC; 30 A_{rms}; 50 A_{peak} Pulse AP015

30 A; 50 MHz Current Probe – AC/DC; 30 A_{rms}; 50 A_{peak} Pulse CP030

30 A; 100 MHz Current Probe – AC/DC; 30 A_{rms}; 50 A_{peak} Pulse CP031

150 A; 10 MHz Current Probe – AC/DC; 150 A_{rms}; 500 A_{peak} Pulse CP150

500 A; 2 MHz Current Probe – AC/DC; 500 A_{rms}; 700 A_{peak} Pulse CP500

Deskew Calibration Source for Current and Differential Probes DCS015

High-Voltage Probes

10:1/100:1 200/300 MHz 50 M Ω High-Voltage Probe PPE1.2KV
600 V/1.2 kV Max. Volt. DC

100:1 400 MHz 50 M Ω 2 kV High-Voltage Probe PPE2KV

100:1 400 MHz 50 M Ω 4 kV High-Voltage Probe PPE4KV

1000:1 400 MHz 50 M Ω 5 kV High-Voltage Probe PPE5KV

1000:1 400 MHz 50 M Ω 6 kV High-Voltage Probe PPE6KV

ORDERING INFORMATION

Product Description	Product Code
Probes for WaveJet 300A and WaveAce 1000 / 2000	
Passive Probes	
500 MHz 10:1, 10 M Ω Passive Probe for 350 MHz and 500 MHz WaveJet Oscilloscopes	PP005A
200 MHz 10:1, 10 M Ω Passive Probe for 100 MHz and 200 MHz WaveJet Oscilloscopes	PP010
300 MHz, 10:1, 10 M Ω Passive Probe for WaveAce Oscilloscopes	PP016
Differential Probes	
700 V, 15 MHz High-Voltage Differential Probe (± 10 , ± 100)	AP031
High-Voltage Probes	
10:1/100:1 200/300 MHz 50 M Ω High-Voltage Probe 600 V/1.2 kV Max. Volt. DC	PPE1.2KV
100:1 400 MHz 50 M Ω 2 kV High-Voltage Probe	PPE2KV
100:1 400 MHz 50 M Ω 4 kV High-Voltage Probe	PPE4KV
1000:1 400 MHz 50 M Ω 5 kV High-Voltage Probe	PPE5KV
1000:1 400 MHz 50 M Ω 6 kV High-Voltage Probe	PPE6KV



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