

Product Line Card



For more information, please contact:





LabMaster 10 Zi-A
(SDA Models)



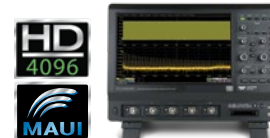
WaveMaster 8 Zi-B
(SDA/DDA 8 Zi-B)

Bandwidth	20 GHz to 100 GHz	4 GHz to 30 GHz
Resolution	8-bit resolution, 11-bit with enhanced resolution	8-bit resolution, 11-bit with enhanced resolution
Rise Time	4.5 ps to 19.3 ps	15.5 ps to 95 ps
Channels (Analog+Digital+Sensor)	Up to 80, 80 + 18	4, 4 + 18
Display	15.3" WXGA Touch Screen	15.3" WXGA Touch Screen
Standard Memory	32 Mpts/Ch (64 Mpts/Ch)	32 Mpts/Ch (64 Mpts/Ch)
Maximum Memory†	Up to 1536 Mpts	Up to 512 Mpts
Sample Rate	Up to 240 GS/s	Up to 80 GS/s
MSO Characteristics† (Digital Channels)	3 GHz, 12.5 GS/s, 18 Ch	3 GHz, 12.5 GS/s, 18 Ch
Trigger Types	Edge, Width, Glitch, Pattern, Runt, Slew Rate, Interval (Period), Dropout, Qualified, Cascade (Sequence) Trigger, High-speed Serial Trigger†	Edge, Width, Glitch, Pattern, Video, HDTV, Runt, Slew Rate, Interval (Period), Dropout, Qualified, Cascade (Sequence) Trigger, High-speed Serial Trigger†
Serial Data† Trigger (T) Decode (D) Measure / Graph (M) Eye Diagram (E) Graph only (G) Physical Layer (P)	TD: 80-bit NRZ, 8b/10b, 64b/66b D: 64b66b, 8b/10b, ARINC 429, Audio, CAN, CAN FD, CAN FD Symbolic, DigRF 3G, DigRF v4, ENET, ENET 10G, Fibre Channel, I²C, LIN, Manchester, MDIO, MIL-STD-1553, NRZ, PCIe, RS-232, SAS, SATA, SENT, SpaceWire, SPI, UART, UniPro, USB 1.0/1.1/2.0, USB 3.0 DP: D-PHY, Fibre Channel, FlexRay, M-PHY DG: Audio	TD: 80-bit NRZ, 8b/10b, 64b/66b, RS-232, UART TD or TDME: CAN, CAN FD, CAN FD Symbolic, I²C, LIN, MIL-STD-1553, SPI, TD or TDxx: Audio (TDG), FlexRay (TDMP) D: DigRF 3G, DigRF v4, ENET, ENET 10G, Fibre Channel, Manchester, MDIO, NRZ, PCIe, SAS, SATA, SENT, SpaceWire, SPMI, UniPro, USB 2.0-HSIC, USB 3.0, 64b / 66b, 8b/10b DP: D-PHY, M-PHY DME: ARINC 429, USB 1.0/1.1/2.0
Serial Data Analysis	Eye Jitter and Noise Analysis (SDAIII-CompleteLINQ), Virtual Probe, Eye Doctor II, PAM4 Signal Analysis, Serial Data Mask, Cable De-Embedding	
Serial Data Compliance	DDR 3/4, LPDDR 3/4, DisplayPort 1.4, eDP, Ethernet 10GBase-T, 10GBase-KR, HDMI 1.4/2.0, MIPI M-PHY, PAM4-56G, PCI Express 1.0/2.0/3.0/4.0, SAS 2/3, SATA, SFI, USB 3.0/3.1/3.2	DDR 2/3/4, LPDDR 2/3/4, DisplayPort 1.4, eDP Ethernet 10/100/1000Base-T, Ethernet 10GBase-T, 10GBase-KR, HDMI 1.4/2.0, MIPI D-PHY, MIPI M-PHY, MOST 50/150, PAM4-56G, PCI Express 1.0/2.0/3.0, SAS 2/3, SATA, SFI, USB 1.1/2.0, USB 3.0/3.1/3.2
Applications Software Options	Spectrum Analyzer (Dual), Clock and Clock-Data Jitter Analysis, DDR Debug Toolkit, Switch-mode Power Supply and Device Analysis, Advanced Customization (Standard with LabMaster 10 Zi-A), EMC Pulse Parameters, Digital Filter Package, Protocol Analyzer Synch (ProtoSync), Advanced Vector Signal Analysis, Vector Signal Analysis, Advanced Optical Recording, Disk Drive Analysis, Disk Drive Measurements, Coherent Optical Analysis, Electrical Telecom Pulse Mask Test	
Connectivity and Storage	USB Host for Storage, LAN for PC, LXI for PC, GPIB for PC†	
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, Segment, Sparse, Square, Square Root, Track, Trend, Zoom	
Dimensions (HWD)	MCM-Zi-A: 277 x 462 x 396 mm (10.9" x 18.2" x 15.6") LabMaster 10-xxZi-A Acq. Module: 202 x 462 x 660 mm (8.0" x 18.2" x 26")	355 x 467 x 406 mm (14" x 18.4" x 16")
Weight	MCM-Zi-A: 47 lbs. (21.4 kg) LabMaster 10-xxZi-A Acq. Module - 58 lbs. (24 kg)	58 lbs. (26.4 kg)
Warranty	3 yr	3 yr
Starting Price	\$222,362	\$77,868

**WavePro HD****HDO8000A/MDA8000A**

Bandwidth	2.5 GHz to 8 GHz	350 MHz to 1 GHz
Resolution	12-bit resolution, 15-bit with enhanced resolution	12-bit resolution, 15-bit with enhanced resolution
Rise Time	57.5 ps to 166 ps	1 ns to 450 ps
Channels (Analog+Digital+Sensor)	4, 4 + 16	8, 8 + 16, 8 + 16 + 24
Display	15.6" Widescreen Capacitive Touch Screen	12.1" WXGA Multi-Touch Screen
Standard Memory	50 Mpts/Ch 100 Mpts Interleaved	50 Mpts/Ch
Maximum Memory[†]	Up to 5 Gpts	Up to 250 Mpts
Sample Rate	Up to 20 GS/s	Up to 10 GS/s
MSO Characteristics[†] (Digital Channels)	250 MHz, 1.25 GS/s 16 Ch	250 MHz, 1.25 GS/s 16 Ch
Trigger Types	Edge, Width, Glitch, Pattern, Video, HDTV, Runt, Slew Rate, Interval (Period), Dropout, Qualified,	Edge, Width, Glitch, Pattern, Video, HDTV, Runt, Timeout, Slew Rate, Interval (Period), Dropout, Qualified, Measurement, Window
Serial Data[†] Trigger (T) Decode (D) Measure / Graph (M) Eye Diagram (E) Graph only (G) Physical Layer (P)	TD or TDME: CAN, CAN FD, CAN FD Symbolic, I ² C, LIN, MIL-STD-1553, RS-232, SPI, UART, USB 1.0/1.1/2.0 TD or TDxx: Audio (TDG), FlexRay (TDMP) D: DigRF 3G, DigRF v4, ENET, Fibre Channel, Manchester, MDIO, NRZ, PCIe, SATA, SAS, SENT, SpaceWire, SPMI, UniPro, USB 2.0-HSIC, USB 3.0, 8b/10b DP: D-PHY, M-PHY DME: ARINC 429, USB 1.0/1.1/2.0	TD or TDME: CAN, CAN FD, CAN FD Symbolic, I ² C, LIN, MIL-STD-1553, RS-232, SPI, UART TD or TDxx: Audio (TDG), FlexRay (TDMP) D: DigRF 3G, DigRF v4, D-PHY, ENET, Manchester, MDIO, NRZ, SENT, SpaceWire, SPMI, USB 1.0/1.1/2.0, USB 2.0-HSIC DME: ARINC 429
Serial Data Analysis	Eye Jitter and Noise Analysis (SDAIII-CompleteLINQ), Virtual Probe, Eye Doctor II, Serial Data Mask, Cable De-Embedding	Serial Data Mask
Serial Data Compliance	DDR 2/3, LPDDR 2/3, Automotive Ethernet 1000Base-T1, BroadR-Reach, Ethernet 10/100/1000Base-T, MIPI D-PHY, MOST 50/150, PCI Express 1.0, USB 1.1/2.0	—
Applications Software Options	Spectrum Analyzer (Dual), Clock and Clock-Data Jitter Analysis, DDR Debug Toolkit, Switch-mode Power Supply and Device Analysis, Three-phase Electrical Power Analysis, Digital Power Management, Advanced Customization, EMC Pulse Parameters, Digital Filter Package, Protocol Analyzer Synch (ProtoSync), Vector Signal Analysis, Advanced Optical Recording, Disk Drive Analysis, Disk Drive Measurements, Electrical Telecom Pulse Mask Test	Spectrum Analyzer (Dual, Incl. Standard), Clock and Clock-Data Jitter Analysis, Switch-mode Power Supply and Device Analysis, Three-phase Electrical Power Analysis, Digital Power Management, Advanced Customization, EMC Pulse Parameters, Digital Filter Package, Vector Signal Analysis Three-phase Electrical and Mechanical Power Analysis (included with MDA8000A Series Models)
Connectivity and Storage	USB Host for Storage, USB Device for PC, LAN for PC, GPIB for PC [†]	
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, Segment, Sparse, Square, Square Root, Track, Trend, Zoom	
Dimensions (HWD)	345 x 445 x 196 mm (13.6" H x 17.5" W x 7.7" D)	374 mm x 417 mm x 280 mm (14.72" x 16.41" x 11")
Weight	24.4 lbs (11.1kg)	27 lbs (12.27 kg)
Warranty	3 yr	3 yr
Starting Price	\$31,930	\$26,626

[†] Optional



	WaveRunner 9000/9000-MS/ WaveRunner 8000-R	HDO6000A/ HDO6000A-MS
Bandwidth	500 MHz to 4 GHz	350 MHz to 1 GHz
Resolution	8-bit resolution, 11-bit with enhanced resolution	12-bit resolution, 15-bit with enhanced resolution
Rise Time	700 ps to 100 ps	1 ns to 450 ps
Channels (Analog+Digital+Sensor)	4, 4 + 16	4, 4 + 16, 4 + 16 + 24
Display	15.4" WXGA Multi-Touch Screen	12.1" WXGA Multi-Touch Screen
Standard Memory	16 Mpts/Ch; M Models: 64 Mpts/Ch 32 Mpts Interleaved; M Models: 128 Mpts	50 Mpts/Ch
Maximum Memory†	Up to 128 Mpts	Up to 250 Mpts
Sample Rate	Up to 20 GS/s; M Models: Up to 40 GS/s	Up to 10 GS/s
MSO Characteristics† (Digital Channels)	250 MHz, 1.25 GS/s, 16 Ch	250 MHz, 1.25 GS/s 16 Ch
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
Serial Data†	TD: SATA, 8b/10b TD or TDME: CAN, CAN FD, CAN FD Symbolic, I ² C, LIN, MIL-STD-1553, RS-232, SPI, UART, USB 1.0/1.1/2.0 TD or TDxx: Audio (TDG), FlexRay (TDMP) D: DigRF 3G, DigRF v4, ENET, Fibre Channel, Manchester, MDIO, NRZ, PCIe, SAS, SENT, SpaceWire, SPMI, UniPro, USB 2.0-HSIC DP: D-PHY, M-PHY DME: ARINC 429	TD or TDME: CAN, CAN FD, CAN FD Symbolic, I ² C, LIN, MIL-STD-1553, RS-232, SPI, UART TD or TDxx: Audio (TDG), FlexRay (TDMP) D: DigRF 3G, DigRF v4, D-PHY, ENET, Manchester, MDIO, NRZ, SENT, SpaceWire, SPMI, USB 1.0/1.1/2.0, USB 2.0-HSIC DME: ARINC 429
Trigger (T) Decode (D) Measure / Graph (M) Eye Diagram (E) Graph only (G) Physical Layer (P)		
Serial Data Analysis	Eye Jitter, Virtual Probe, Eye Doctor II, Serial Data Mask, Cable De-Embedding	Serial Data Mask
Serial Data Compliance	DDR 2/3, LPDDR 2/3, Automotive Ethernet 1000Base-T1, BroadR-Reach, Ethernet 10/100/1000Base-T, MIPI D-PHY, MOST 50/150, USB 1.1/2.0	—
Applications Software Options	Spectrum Analyzer (Dual), Clock and Clock-Data Jitter Analysis, DDR Debug Toolkit, Switch-mode Power Supply and Device Analysis, Advanced Customization, EMC Pulse Parameters, Digital Filter Package, Protocol Analyzer Synch (ProtoSync), Vector Signal Analysis, Advanced Optical Recording, Disk Drive Analysis, Disk Drive Measurements, Electrical Telecom Pulse Mask Test	Spectrum Analyzer (Dual, Incl. Standard), Clock and Clock-Data Jitter Analysis, Switch-mode Power Supply and Device Analysis, Three-phase Electrical Power Analysis, Digital Power Management, Advanced Customization, EMC Pulse Parameters, Digital Filter Package, Vector Signal Analysis, Electrical Telecom Pulse Mask Test
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, GPIB for PC†
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, Segment, 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, Segment, Sparse, Square, Square Root, Track, Trend, Zoom
Dimensions (HWD)	358 x 445 x 242 mm (14.1" x 17.5" x 9.5") WaveRunner 8000-R: 316 x 417 x 238 mm (12.44" x 16.42" x 9.37")	291.7 x 399.4 x 131.31 mm (11.48" x 15.72" x 5.17")
Weight	25.8 lbs. (11.7 kg)	12.6 lbs (5.71 kg)
Warranty	3 yr	3 yr
Starting Price	\$16,435	\$15,965



	HDO4000A/ HDO4000A-MS	WaveSurfer 510	WaveSurfer 3000z
Bandwidth	200 MHz to 1 GHz	1 GHz	100 MHz to 1 GHz
Resolution	12-bit resolution, 15-bit with enhanced resolution	8-bit resolution, 11-bit with enhanced resolution	8-bit resolution, 11-bit with enhanced resolution
Rise Time	1.75 ns to 450 ps	350 ps	3.5 ns to 430 ps
Channels (Analog+Digital+Sensor)	4, 4 + 16, 4 + 16 + 24	4, 4 + 18	4, 4+16
Display	12.1" WXGA Multi-Touch Screen	12.1" WXGA Multi-Touch Screen	10.1" Capacitive Touch Screen
Standard Memory	12.5 Mpts/Ch 25 Mpts Interleaved	16 Mpts/Ch, 32 Mpts interleaved	10 Mpts/Ch, 20 Mpts Interleaved
Maximum Memory[†]	Up to 50 Mpts	Up to 32 Mpts	Up to 20 Mpts
Sample Rate	Up to 10 GS/s	10 GS/s	Up to 4 GS/s 100 MHz models: Up to 2 GS/s
MSO Characteristics[†] (Digital Channels)	250 MHz, 1.25 GS/s 16 Ch	250 MHz, 1 GS/s	125 MHz, 500 MS/s
Trigger Types	Edge, Width, Glitch, Pattern, Video, HDTV, Runt, Slew Rate, Interval (Period), Dropout, Qualified, Window	Edge, Width, Glitch, Pattern, Video, HDTV, Runt, Slew Rate, Interval (Period), Dropout, Qualified	Edge, Width, Pattern, TV, Runt, Slew Rate, Interval (Period), Dropout, Qualified
Serial Data[†] Trigger (T) Decode (D) Measure / Graph (M) Eye Diagram (E) Graph only (G) Physical Layer (P)	TD: Audio, CAN, CAN FD, FlexRay, I ² C, LIN, MIL-STD-1553, RS-232, SPI, UART D: ARINC 429, DigRF 3G, DigRF v4, D-PHY, ENET, Manchester, MDIO, NRZ, SENT, SpaceWire, SPMI, USB 1.0/1.1/2.0, USB 2.0-HSIC	TD: Audio, CAN, CAN FD, FlexRay, I ² C, LIN, MIL-STD-1553, RS-232, SPI, UART D: ARINC 429, DigRF 3G, DigRF v4, D-PHY, ENET, Manchester, MDIO, NRZ, SENT, SpaceWire, SPMI, USB 1.0/1.1/2.0, USB 2.0-HSIC	TD: Audio, CAN, CAN FD, FlexRay, I ² C, LIN, RS-232, SPI, UART
Serial Data Analysis	—	—	—
Serial Data Compliance	—	—	—
Additional Software Options	Spectrum Analyzer (Single), Switch-mode Power Supply and Device Analysis, Electrical Telecom Pulse Mask Test	Spectrum Analyzer (Single), Switch-mode Power Supply and Device Analysis	Switch-mode Power Supply and Device Analysis, Function Generator, Digital Voltmeter (Included standard with registration)
Connectivity and Storage	USB Host for Storage, USB Device for PC LAN for PC, GPIB for PC [†]	USB Host for Storage, LAN for PC, GPIB for PC [†]	USB Host, USB Device, LAN, GPIB, and LXI Compatible
Math	+, -, x, /, FFT, Absolute Value, Average, Derivative, Deskew, Envelope, Enhanced Resolution, Floor, Integral, Invert, Reciprocal, Rescale, Roof, Square, Square Root, Trend, Zoom	+, -, x, /, FFT, Derivative, Deskew, Integral, Rescale, Roof, Square, Square Root, Zoom, Absolute Value, Average, Envelope, Enhanced Resolution, Exp (base e), Exp (base 10) Floor, Invert, Log (base e), Log (base 10), Reciprocal, Roof and Trend	+, -, x, /, FFT, Absolute Value, Average, Derivative, Envelope, Floor, Integral, Invert, Reciprocal, Rescale, Roof, SinX/x, Square, Square Root, Trend, Zoom
Dimensions (HWD)	291.7 x 399.4 x 131.31 mm (11.48" x 15.72" x 5.17")	316 x 417 x 238 mm (12.44" x 16.42" x 9.37")	270 x 380 x 125 mm (10.63" x 14.96" x 4.92")
Weight	12.6 lbs (5.71 kg)	22.8 lbs. (10.3 kg)	10.6 lbs (4.81 kg)
Warranty	3 yr	3 yr	3 yr
Starting Price	\$10,403	\$13,287	\$3,700

[†]Optional

TEST & MEASUREMENT INSTRUMENTS

MDA800A Motor Drive Analyzer



3-phase Electrical and Mechanical Power Analysis

Motor Drive Analyzers provide complete three-phase electrical and mechanical power analysis from motor drive input through motor mechanical output, with results in a convenient Numeric table format. Motor speed, position, and torque integration are the most complete available. Long memory, per-cycle "synthesized" Waveforms and Zoom+Gate mode provide powerful dynamic drive and motor analysis. 8 analog input channels (MSO optional) with high resolution (12-bits), sample rate (up to 2.5 GS/s), bandwidth (up to 1 GHz) and memory (up to 250 Mpt/ch) provide unique capability to perform complete system debug on the motor drive power section, motor mechanical performance, and embedded drive control system operation. Standalone three-phase electrical power analysis is also available on selected oscilloscopes.

Key Features:

- Oscilloscope + Power Analyzer in one instrument
- Complete motor drive system debug
- Numerics measurement results table
- Dynamic drive response analysis
- Most complete motor mechanical integration
- Intuitive, graphical user interface
- HD4096 High Definition Technology
- Harmonics Calculation option

teledynelecroy.com/motor-drive-analyzer | teledynelecroy.com/static-dynamic-complete

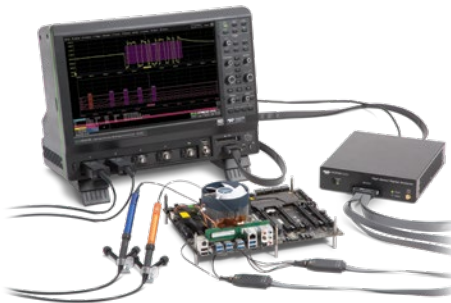
SAM40 Sensor Acquisition Module



Add 24-bit Resolution Input Channels to a Supported Oscilloscope

The SAM40 provides up to 24 input channels for low frequency (sensor signal) acquisition and analysis. It connects to a 4 or 8 channel Teledyne LeCroy 12-bit resolution high definition oscilloscope (HD4096 HDOs and MDAs) to provide Analog+Digital+Sensor (up to 8+16+24 channel) acquisitions. This capability is ideal for system debug and analysis of deeply embedded, electromechanical, and mechatronic designs in the medical, mil/aero, motors and drives, power, appliance, Internet of Things (IoT), vehicle/automotive and other applications.

HDA125 High-speed Digital Analyzer



The Most Flexible Mixed-Signal Test Solution

The HDA125 transforms your Teledyne LeCroy oscilloscope into the highest-performance, most flexible mixed-signal solution for high-speed digital debug and evaluation. With 12.5 GS/s digital sampling rate on 18 input channels, and the revolutionary QuickLink probing solution allowing seamless transitions from digital to high-bandwidth analog acquisitions, validation of challenging interfaces such as DDR4 has never been simpler or more comprehensive.

Key Features:

- 12.5 GS/s sampling rate for 80ps timing accuracy
- 3 GHz leadset for capturing digital signals up to 6 Gb/s
- Add high-speed mixed-signal capability to your Teledyne LeCroy high-bandwidth oscilloscope
- LBUS connection for precise timing synchronization
- USB 3.1 for fast data transfer
- Unique QuickLink probing system
- Differential solder-in tips with 9-inch lead simplify access to difficult test points
- Ultra low loading for superior performance
- 8 GHz bandwidth tips are compatible with both HDA digital leadset and Teledyne LeCroy WaveLink differential analog probes for unmatched acquisition flexibility

teledynelecroy.com/logicanalyzers

PeRT³ Test System



Protocol-enabled Receiver and Transmitter Tolerance Tester

The PeRT³ (Protocol-enabled Receiver and Transmitter Tolerance Tester) fills the space between physical layer test and protocol test, providing a new and more intelligent capability for performance testing of receivers and transmitters. Designed to meet the test needs of engineers working with serial data transceivers and other high-speed serial data communication systems, the Teledyne LeCroy PeRT³ Test System is not just a new instrument, it is an entirely new instrument class.

teledynelecroy.com/pert3

TEST & MEASUREMENT INSTRUMENTS

Optical Modulation Analyzer



The Most Powerful, Flexible Optical Toolset

Teledyne LeCroy's IQS42 and IQS70 Coherent Optical Receivers integrate seamlessly with Teledyne LeCroy's LabMaster 10Zi-A series of real-time oscilloscopes to provide up to 65 GHz system bandwidth for optical modulation analysis of dual-polarized signals up to 130 GBaud. The Optical-LinQ optical modulation analysis software package provides real-time calibration and control of the Coherent Optical Receiver, and a wide variety of analytical views and parameters.

Key Features:

- Up to 65 GHz system bandwidth
- Up to 130 GBaud detectable baud rate
- Up to 160 GS/s sample rate
- Real-time acquisition for testing of coherent modulated optical communications links
- Built-in dispersion compensation, polarization de-multiplexing, and carrier recovery algorithms
- Supports DP-QPSK, DP-16QAM, and a wide variety of other PSK and QAM formats
- Support for custom modulation formats
- Built-in local oscillator
- Adaptive calibration – Receiver can be disconnected and reconnected without factory calibration

teledynelecroy.com/optical

Logic Analyzer



16 Channels, 1 GS/s, 100 MHz Input plus I²C, SPI and UART Analysis

LogicStudio 16 provides 16 channels with a high sample rate of 1 GS/s and maximum input of up to 100 MHz. The software provides a lively, dynamic waveform display with a smart, intuitive user-interface that is easily navigated by a few basic mouse clicks. LogicStudio provides a lot of tools for digital debug including timing cursors, unique zooming and panning of waveforms, a persistence display and a history mode which can replay old data captures. Additionally, protocol analysis for I²C, SPI and UART is included to decode waveforms as they are captured and provide the ability to trigger on specific address or data packets on the bus.

Try it Free—Download software here
teledynelecroy.com/logicstudio

Teledyne Test Tools

[Learn More: teledynelecroy.com/testtools](http://teledynelecroy.com/testtools)

Teledyne Test Tools is a comprehensive range of test equipment solutions to complement Teledyne LeCroy's family of oscilloscopes and analyzers. These tools provide a one-stop-shop for test engineers, developers and teaching establishments looking to satisfy ongoing testing, education and electronics validation needs efficiently, reliably and within budget.

The Teledyne Test Tools portfolio was created in collaboration with leading OEM technology partners to support new product design needs across a range of industries such as mobile, automotive, communications, defense and manufacturing.



T3SP Time Domain Reflectometers

Teledyne Test Tools T3SP10D (10 GHz) and T3SP15D (15 GHz) stimulate the DUT with true differential signals. The TDRs offer fast rise times of 50 ps (T3SP10D) and 35 ps (T3SP15D) for fault resolution (in FR4) of 4.2 mm and 3 mm, respectively, at DUT lengths of up to 40 meters and TDR repetition rates of up to 10 MHz and uses the same open short load (OSL) calibration standards as vector network analyzers. Thanks to their small form factors, light weight, and optional internal batteries, the instruments go anywhere in test labs or in the field at a cost-effective price point.



T3AWG3252 / T3AWG3352 Arbitrary Waveform Generators

T3AWG3252 and T3AWG3352 are two high definition high performance Arbitrary Waveform Generators (HD AWG) consisting of 2 channels, 16 bit vertical resolution, 12 Vpp max output voltage (50Ω into 50Ω), 128 Mpts/ch memory (optional 1 Gpts/ch), a maximum sampling rate of 1.2 GS/s and a max sine wave frequency of 250 MHz and 350 MHz respectively. The baseline HW voltage offset capability provide the unmatched ability to generate ±24 V or 48V output voltage window (50Ω into High Impedance).

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

Differential Probes (4 to 8 GHz)

Various
(see teledynelecroy.com/probes for more information)



General purpose high-bandwidth probes with high dynamic range and offset. Wide variety of tips and leads available, including solder-in, QuickLink solder-in, HiTemp solder-in, browser tip, square-pin, and SMA/SMP lead (8 GHz model only).

Differential Probes (200 MHz – 1.5 GHz)

ZD1500, ZD1000,
ZD500, ZD200
AP033v



High bandwidth, excellent common-mode rejection ratio (CMRR) and low noise make these active differential probes ideal for applications such as automotive electronics and data communications. AP033 provides 10x gain for high-sensitivity measurement of series/shunt resistor voltages.

Active Voltage/Power Rail Probe

RP4030



Specifically designed to probe a low impedance power/voltage rail. The RP4030 has 30 V built-in offset adjust, low attenuation (noise), and high DC input impedance with 4 GHz of bandwidth. Featuring a wide assortment of tips and leads, including solder-in and U.FL receptacle connections.

ZS Series High Impedance Active Probes

ZS4000, ZS2500,
ZS1500, ZS1000



High input impedance (1 MΩ), low 0.9 pF input capacitance and an extensive set of probe tips and ground accessories make these low-cost, single-ended probes ideal for a wide range of applications. The ZS Series is available up to 4 GHz bandwidth.

High Voltage Fiber Optically-isolated Probes

HVFO103



The HVFO is a compact, simple, affordable probe for measurement of small signals (gate-drives, sensors, etc.) floating on an HV bus in power electronics designs, or for EMC, EFT, ESD, and RF immunity testing sensor monitoring. Suitable for up to 35kV common-mode. 140 dB CMRR.

High Voltage Differential Probes

HVD3102A, HVD3106A-6M,
HVD3106A, HVD3206A,
HVD3206A-6M, HVD3605A, AP031



Available with 1, 2 or 6 kV common-mode ratings. Excellent CMRR (65 dB @ 1 MHz) at high frequencies is combined with low inherent noise, wide differential voltage range, high offset voltage capabilities, and 1% gain accuracy. The ideal probe for power conversion system test.

Current Probes

CP030, CP030-3M, CP030A
CP031, CP031A, CP150,
CP150-6M, CP500, DCS025



Available in bandwidths up to 100 MHz with peak currents of 700 A and sensitivities to 1 mA/div. Extra-long cables (3 or 6 meters) available on some models. Ideal for component or power conversion system input/output measurements.

High Voltage Passive Probes

HVP120, PPE4KV,
PPE5KV, PPE6KV



High voltage single-ended passive probes are suitable for a wide range of applications where ground-referenced high-voltage measurements must be made safely and accurately. There are several fixed-attenuation probes covering a range from 1 kV to 6 kV and varying transient overvoltage ratings. All of these high voltage probes feature a spring loaded probe tip and a variety of standard accessories to make probing high voltages safe and easy. Additionally, all of the high voltage probe have a probe sense pin to automatically configure the oscilloscope for use with the probe.

Passive Probes

PP006C, PP016, PP019, PP020,
PP021, PP022, PP023, PP024,
PP025, PP026



Typical passive probes provide a /10 attenuation and feature a high input resistance of 10 MΩ. This high input resistance means that passive probes are the ideal tool for low frequency signals since circuit loading at these frequencies is minimized. Passive probes are designed to handle voltages of at least 400 V, some as high as 600 V. Teledyne LeCroy passive probes feature an attenuation sense pin for automatic probe detection and voltage scaling.

Probe and Current Sensor Adapters

TPA10, CA10, CA10-QUADPAK



TPA10 adapts supported Tektronix TekProbe-compatible probes to Teledyne LeCroy ProBus interface. CA10 is a programmable adapter for third-party current sensors that have voltage or current outputs proportional to measured current.

Optical to Electrical Converters

OE6250G-M, OE695G,
OE425, OE455



Teledyne LeCroy's wide-band multi-mode optical-to-electrical converters are designed for measuring optical communications signals. Their broad wavelength range and multi-mode input optics make these devices ideal for applications including Ethernet, Fibre Channel, and ITU telecom standards. Available to support optical data rates up to 11.3 Gb/s with reference receivers, or slightly higher without reference receivers.



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