

# 60 MHz - 30 GHz

WaveMaster® 8 Zi  
4 GHz - 30 GHz



WavePro® 7 Zi  
1.5 GHz - 6 GHz



SDA 7 Zi  
2.5 GHz - 6 GHz



SDA 8 Zi  
4 GHz - 30 GHz



WaveRunner®  
400 MHz - 2 GHz



WaveAce™  
60 MHz - 300 MHz



WaveJet®  
100 MHz - 500 MHz



WaveSurfer®  
200 MHz - 1 GHz



For more information, please contact:



Oscilloscope Series	Bandwidth	Maximum Sampling Rate	Standard Memory	Maximum Memory
<b>WaveAce™ Series</b> 	60 MHz – 300 MHz	2 GS/s	9 kpts/Ch 18 kpts interleaved	9 kpts/Ch 18 kpts interleaved
<b>WaveJet® 300-A Series</b> 	100 MHz – 500 MHz	2 GS/s	500 kpts/Ch	500 kpts/Ch
<b>WaveSurfer® Xs-A Series</b> 	200 MHz – 1 GHz	2.5 GS/s – 5 GS/s	5 Mpts/Ch	10 Mpts/Ch
<b>WaveSurfer® MXs-A Series</b> 	200 MHz – 1 GHz	2.5 GS/s – 5 GS/s	10 Mpts/Ch	10 Mpts/Ch
<b>WaveRunner® Xi-A Series</b> 	400 MHz – 2 GHz	10 GS/s	12.5 Mpts/Ch 25 Mpts interleaved	12.5 Mpts/Ch 25 Mpts interleaved
<b>WaveRunner® MXi-A Series</b> 	400 MHz – 2 GHz	10 GS/s	12.5 Mpts/Ch 25 Mpts interleaved	12.5 Mpts/Ch 25 Mpts interleaved

The WaveAce combines long memory, a color display, extensive measurement capabilities, advanced triggering and excellent connectivity to improve troubleshooting and shorten debug time. With bandwidths from 60 MHz to 300 MHz, sample rates up to 2 GS/s and waveform memory up to 9 kpts/Ch (18 kpts interleaved) the WaveAce exceeds all expectations of a small affordable oscilloscope.

The WaveJet 300 Series raises the bar for performance in its class of oscilloscopes, offering exceptional value with 2 and 4 channel models from 100 MHz to 500 MHz. WaveJet eliminates the tradeoff between high sample rate and long capture time — providing a very long capture time at 2 GS/s sample rate.

With the WaveSurfer Xs-A Series, validation and debug is fast and simple. They were designed with speed and responsiveness in mind. The big display, simplified front panel, and graphical touch screen user interface will allow you to be efficient in a matter of minutes. A multitude of powerful and flexible triggers are provided to meet any need. Long capture time greatly assists in debugging common circuit problems such as clock/data issues and timing errors.

The WaveRunner MXs oscilloscopes emphasize strong fundamentals for lab and bench scope use. One price includes: Advanced Math and Advanced Trigger software packages, HDTV Trigger along with WaveScan™ an advanced search and analysis feature, WaveStream™ a fast viewing mode, and LabNotebook™ a unique tool for documentation and report generation.

The LeCroy WaveRunner Xi-A is the most powerful and capable scope available in its class. Basic system validation using advanced triggers, fast viewing modes, measurement parameters, or serial decodes is simple and easy. Advanced debug, multi-domain analysis, and WaveShape analysis are possible with tools unique to WaveRunner Xi-A. Optional application packages help you make sense of well-defined problems.

The WaveRunner MXi-A not only provides the performance and tools required to debug and to validate your signals, it goes deeper into your testing to help you understand the causes of complex problems. The WaveRunner MXi-A provide all of the powerful debug and analysis tools of the Xi-A models, with the addition of advanced Math and measurements, jitter and timing analysis, and customized math and measurements.

## Oscilloscope Series

### Bandwidth

### Maximum Sampling Rate

### Standard Memory

### Maximum Memory

## Mixed Signal Oscilloscope Solutions



200 MHz – 30 GHz

2.5 GS/s – 80 GS/s

10 Mpts/Ch –  
20 Mpts/Ch

10 Mpts/Ch –  
256 Mpts/Ch

With up to 36 digital channels, analog bandwidths up to 30 GHz, a maximum digital input frequency of 500 MHz, and long memory of 50 Mpts/Ch, LeCroy's mixed signal oscilloscopes deliver raw performance and the best solutions for serial data busses such as I<sup>2</sup>C, SPI, UART, RS-232, CAN, LIN, AudioBus and FlexRay. All analog and digital channels can capture data at full sample rate, since all memory is always available and not shared.

## WavePro<sup>®</sup> 7 Zi Series



1.5 GHz – 6 GHz

40 GS/s

10 Mpts/Ch  
20 Mpts interleaved

128 Mpts/Ch  
256 Mpts interleaved

Combining signal fidelity with an architecture that maximizes speed in every performance aspect, the new WavePro 7 Zi Series presents a totally new oscilloscope experience from 1.5 GHz to 6 GHz bandwidths. 50 Ω and 1 MΩ inputs for every channel and four inputs into high-speed front end amplifiers and analog to digital converters. X-Stream II architecture provides 10 to 20 times faster long memory performance than any other oscilloscope. LeCroy's flexible and deep analysis toolbox gives an unforgettable experience for debugging, validation, analysis and compliance testing.

## SDA 7 Zi Series



2.5 GHz – 6 GHz

40 GS/s

20 Mpts/Ch  
40 Mpts interleaved

128 Mpts/Ch  
256 Mpts interleaved

SDA 7 Zi Serial Data Analyzers are based on the WavePro 7 Zi Series oscilloscope and are equipped with double the standard memory to capture more unit intervals in the eye diagram. They include an enhanced high-speed serial pattern trigger that operates on up to 80 bit patterns and at speeds up to 3.125 Gb/s. Whether debugging eye pattern failures, or other compliance test failures, the SDA Series has easily accessible tools that rapidly isolate the source of the problem in your design.

## WaveMaster<sup>®</sup> 8 Zi Series



4 GHz – 30 GHz

40 GS/s – 80 GS/s

10 Mpts/Ch  
20 Mpts interleaved

256 Mpts/Ch  
512 Mpts interleaved

WaveMaster 8 Zi combines the highest bandwidth and sample rate with the superior performance of the X-Stream II architecture to maximize speed in all aspects—high bandwidth signal capture, 10–100x faster analysis processing, instantaneous instrument responsiveness, and 20x faster off-line data transfer. Availability of models from 4 to 30 GHz with complete bandwidth upgradability makes it affordable to stay current with emerging high-speed technologies and serial data standards. The WaveMaster provides an unforgettable experience for the debugging, validation, analysis and compliance testing of electronic designs.

## SDA 8 Zi Series



4 GHz – 30 GHz

40 GS/s – 80 GS/s

20  
40 Mpts/Ch

Mpts/Ch 256  
Mpts/Ch 512 Mpts interleaved

SDA 8 Zi Serial Data Analyzers are based on the WaveMaster 8 Zi Series oscilloscope and are equipped with double the standard memory to capture more unit intervals in the eye diagram. They include an enhanced high-speed serial pattern trigger that operates on up to 80 bit patterns and at speeds up to 3.125 Gb/s. The expansive SDA II toolset includes superior jitter breakdown methodologies and more precise jitter breakdown tools to increase confidence in measurements, and offer more complete insight, faster than competitive tools.

## WaveExpert<sup>®</sup> Series



20 GHz – 100 GHz

1 MS/s (standard)  
10 MS/s (CIS)

100 kByte/Ch  
16 Mbyte/Ch (CIS)

128 MByte/Ch  
510 MByte interleaved

The WaveExpert is the first sampling oscilloscope capable of acquiring, measuring and processing signals that cannot be physically probed. It completely addresses the analysis and compliance requirements of the long serial data patterns required by standards such as second generation PCI Express, Serial ATA, XAUI and 10 Gigabit Ethernet. The modular architecture of the WaveExpert supports up to four electrical channels with bandwidths up to 100 GHz as well as clock recovery and serial pattern generation up to 13.5 Gb/s.

# Probe Selection Guide

## High Bandwidth Probing Solution DA18000



The DA18000 is a very high bandwidth DC coupled differential amplifier with a true 100  $\Omega$  balanced input. It features high common mode rejection and low noise. The amplifier has unity gain, to maximize the signal to noise performance when used with the lower amplitude signal voltages common in higher data rate systems. The DA18000 is supplied with a short pair of input cables which are matched to an electrical propagation length of 2.5 ps. These cables eliminate the need to deskew and calibrate input channels for differential match. The DA18000 utilizes third generation digital response equalization for the most accurate magnitude and phase response.

## Differential Probes (11 GHz–13 GHz) D13000PS, D11000PS



The D13000PS/D11000PS extends the full signal acquisition performance of WaveMaster 8 Zi to the probe tips. With 13/11 GHz system bandwidth, the probe enables direct measurement of high-speed serial data streams up to 6.25 Gb/s. The D13000PS/D11000PS provide unprecedented waveform fidelity, even with signals at higher serial data rates.

## WaveLink Differential Probes (3.5 GHz–20 GHz) D610/D620, D310/D320 D600A-AT, D300A-AT, D500PT D1305, D1605, D2005



WaveLink® probes provide industry leading technology for wideband signal connection to test instruments. The first differential probes to employ SiGe technology, they deliver full system bandwidth when used with WaveRunner WavePro WaveMaster, DDA and SDA oscilloscopes up to 20 GHz.

## Differential Probes (500 MHz–1 GHz) AP034, AP033



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 ADP305, ADP300, AP031



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.

## ZS Series High Impedance Active Probes ZS1500, ZS1000, ZS1500-QUADPAK, ZS1000-QUADPAK



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 $\Omega$  input resistance and low 0.9 pF input capacitance mean this probe is ideal for all frequencies. The ZS Series probes provide full system bandwidth for all LeCroy oscilloscopes having bandwidths of 1 GHz and lower.

## Current Probes CP031, CP030, AP015, CP015, CP500, DCS015



LeCroy 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. LeCroy current probes enable the design and testing of switching power supplies, motor drives, electric vehicles, and uninterruptible power supplies.

## High Voltage Passive Probes PPE1.2KV, PPE20KV, PPE2KV, PPE4KV, PPE5KV, PPE6KV



The PPE Series includes five fixed-attenuation probes covering a range from 2 kV to 20 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 LeCroy oscilloscopes for the appropriate attenuation of the probe.

## Passive Probes PP008-1, PP009-1, PP007-WR-1, PP007-WS-1, PP005A, PP006A, PP010-1, PP011-1



LeCroy passive probes automatically scale the oscilloscope waveforms without user input. 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.



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