







More Channels More flexibility

Longest Memory 5 Gpt records with simple navigation

Highest Resolution

High Signal to
Noise Input
Amplifiers

High Sample
Rate 12-bit
ADC's

Low Noise
System
Architecture

12 bits all the time 16x closer to perfect

- Clean, crisp waveforms
- More signal details
- Unmatched measurement precision



More Channels

More channels, more flexibility

- 8 channels is better than 4
- 16 channels with OscilloSYNC
- No analog/digital channel tradeoffs





Longest Memory

5 Gpt records with simple navigation - no compromises

- 5 Gpts fast and responsive
- Simple navigation with timebase adjust or zoom traces
- No compromises long captures at full sample rate





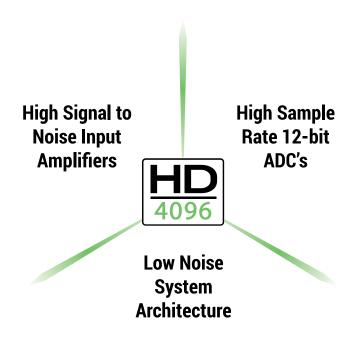
Providing 12 bits all the time,
more channels than any other oscilloscope,
and long memory without tradeoffs – the
WaveRunner 8000HD captures every detail.

The only 8 channel, 12 bit, 2 GHz oscilloscope



HD WaveRunner 8000HD

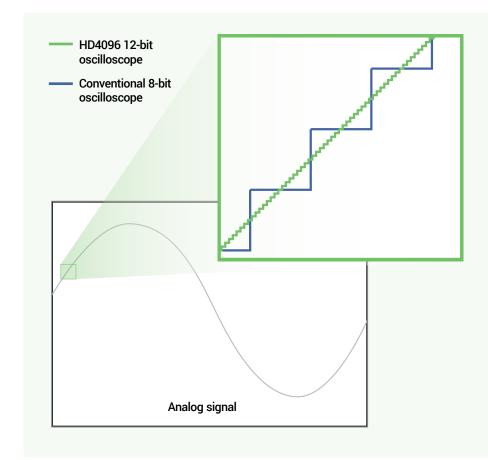
HD4096 TECHNOLOGY - 16X CLOSER TO PERFECT



Teledyne LeCroy high definition 12-bit oscilloscopes use unique HD4096 technology to provide superior and uncompromised measurement performance:

- 12-bit ADCs with high sample rates
- High signal-to-noise amplifiers
- Low noise system architecture (to 2 GHz)

Oscilloscopes with HD4096 technology have higher resolution than conventional 8-bit oscilloscopes (4096 vs. 256 vertical levels) and low noise for uncompromised measurement performance. The 12-bit ADCs support capture of fast signals at oscilloscope bandwidth ratings up to 2 GHz, while Enhanced Sample Rate to 10 GS/s ensures the highest measurement accuracy and precision. The high performance input amplifiers deliver pristine signal fidelity, and the low-noise system architecture provides an ideal signal path to ensure that signal details are delivered accurately to the oscilloscope display – 16x closer to perfect.



16x Closer to Perfect

16x more resolution

HD4096 technology provides 12 bits of vertical resolution — 16x more resolution than conventional 8-bit oscilloscopes. The 4096 discrete vertical levels reduce the quantization error compared to 256 vertical levels. This improves the accuracy and precision of the signal capture and increases measurement confidence.

EXPERIENCE THE DIFFERENCE



Experience HD4096 accuracy, detail and precision and never use an 8-bit oscilloscope again. Whether the application is general purpose design and debug, high precision analog sensors, power electronics, automotive electronics, mechatronics or other specialized applications, the HD4096 technology provides unsurpassed confidence and measurement capabilities.

Clean, crisp waveforms

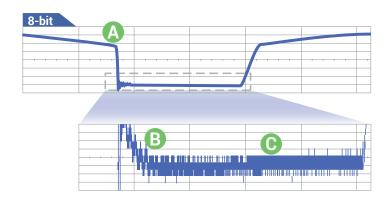
When compared to waveforms acquired and displayed using conventional 8-bit oscilloscopes, waveforms captured with HD4096 12-bit technology are dramatically crisper and cleaner, and are displayed more accurately. Once you see a waveform acquired with HD4096 technology, you will not want to go back to using a conventional 8-bit oscilloscope.

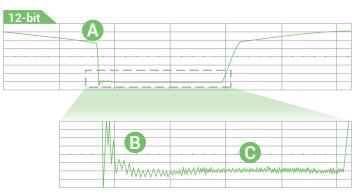
More signal details

16x more resolution provides more signal detail. This is especially helpful for analyzing wide dynamic range signals where very small amplitude signal details must be viewed. 12-bit acquisitions combined with the oscilloscope's vertical and horizontal zoom capabilities provide unparalleled insight into system behaviors and problems.

Unmatched measurement precision

HD4096 technology delivers measurement precision several times better than conventional 8-bit oscilloscopes. Higher oscilloscope measurement precision results in better ability to assess corner cases and design margins, perform root cause analysis, and create the best possible solution for any discovered design issue.



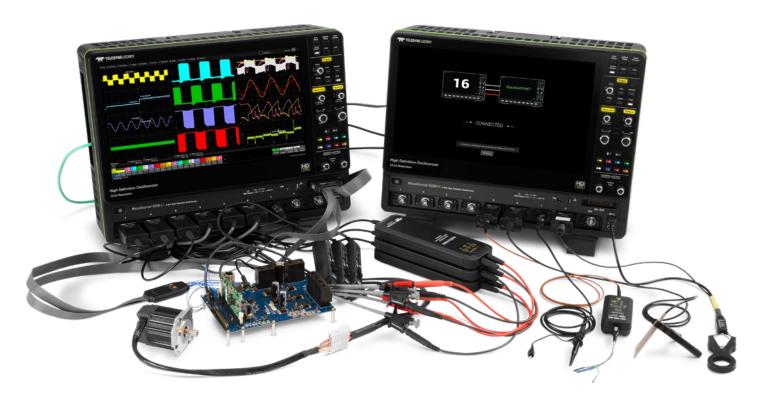


- Clean, crisp waveforms | Thin traces show the actual waveform with minimal noise interference.
- B More signal details | Waveform details can now be clearly seen on an HD4096 12-bit oscilloscope.
- Unmatched measurement precision | Measurements are more precise and not affected by quantization noise.

MORE CHANNELS, MORE FLEXIBILITY



The WaveRunner 8000HD is the only oscilloscope to offer 8 analog channels and 16 digital channels, allow synchronization of two 8-channel systems, and not penalize you for using a digital channel.



8 channels is better than 4

Twice the number of channels for much less than twice the price of a four channel oscilloscope. Gain efficiency and productivity by analyzing more of your system at one time, and locate problems that would not be apparent with only four channels.

16 channels with OscilloSYNC™

View and control 16 analog channels on a single display with OscilloSYNC technology – just like having a single 16-channel acquisition system. Setup is incredibly easy with four simple steps.

No analog/digital tradeoffs

All 8 analog and 16 digital channels are always available. Other oscilloscopes require that you trade a valuable analog channel in exchange for digital inputs. With Teledyne LeCroy, you always get all the channels you paid for.

The activation key can be downloaded at no charge from: teledynelecroy.com/redeem/OscilloSYNC



OscilloSYNC Technology

- 1 Connect Ref. In/Out terminals.
- 2 Connect Aux Out terminals.
- 3 Connect Ethernet ports.
- 4 Enter IP Address and press Connect.
- → Acquire 16 channels on one display.

LONGEST MEMORY, SIMPLE NAVIGATION



With up to 5 Gpts of acquisition memory, WaveRunner 8000HD 12-bit oscilloscopes capture long periods of time, yet maintain high sample rate for visibility into the smallest details.

5 Gpts - fast and responsive

WaveRunner 8000HD oscilloscopes contain a sophisticated acquisition and memory management architecture that makes 5 Gpt acquisitions fast and responsive. More memory means more visibility into system behavior.

Simple navigation

Long memory and high sample rates capture both millisecond-scale trends and picosecond-scale glitches. WaveRunner 8000HD oscilloscopes are equipped with an advanced user interface that makes it easy to find features, navigate directly using timebase scale and position knobs, or set up zoom traces - whichever you prefer. Apply analysis tools easily to any type of trace.

No compromise

WaveRunner 8000HD can acquire 500 ms of data at the full 10 GS/s sample rate - and always with 12 bits of resolution.

Oscilloscopes with less memory require trading sample rate for acquisition time.

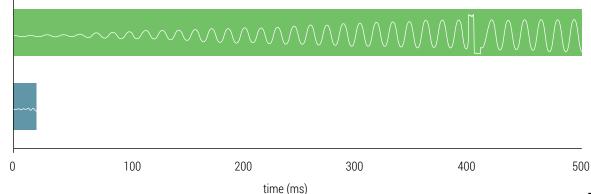




5 Gpts @ 10 GS/s 500 ms acquisition time

Competitor

125 Mpts @ 6.25 GS/s 20 ms acquisition time



DISTRAME - Tél.: 03 25 71 25 83 - infos@distrame.fr - www.distrame.fr



WaveRunner 8000HD 12-bit oscilloscopes deliver 8 analog channels (16 with OscilloSYNC), 3-phase power analysis software, and high performance probes for inverter subsection, power system and control testing.

Static, Dynamic, Complete

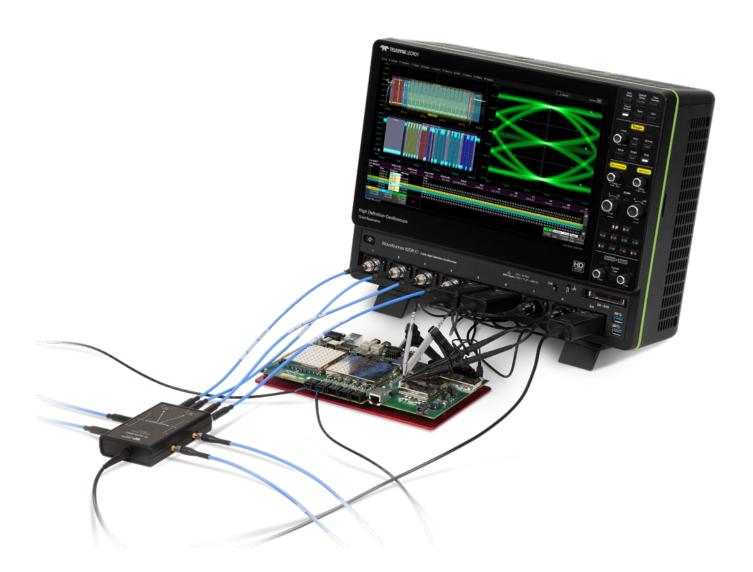
Analyze short or long acquisitions. The mean value Numerics table summarizes static performance, while per-cycle Waveforms help you understand dynamic behaviors. Use Zoom+Gate to isolate and correlate power system behaviors to control system activity during time periods as short as a single device switching cycle.

Comprehensive probing

HVD series high voltage differential probes have 65 dB CMRR at 1 MHz with 1% gain accuracy, the widest voltage ranges, and up to 6 kV commonmode rating. Connect current probes or use your own transducers with the programmable CA10 current sensor adapter to create a customized "probe". HVFO fiber-optic probes are ideal for gate drive probing.

Up to 16 analog channels

8 analog inputs at up to 2 GHz let you monitor an H-bridge's four pairs of device output and gate drive input signals. Cascaded H-bridges may be easily monitored using 12 channels, with three additional channels for output voltage. WaveRunner 8000HD has enough channels for full 3-phase power section input/output and control section analysis.



WaveRunner 8000HD 12-bit oscilloscopes combine a high channel count, long memory, and wide range of validation and debug software to best address the specific test needs of the automotive industry.

Best vehicle bus debug tools

Unique capabilities that build on our legacy serial data trigger and decode provide the most complete debug and validation of automotive buses. Cover all aspects of physical layer Automotive Ethernet testing with compliance test software and a dedicated Automotive Ethernet debug toolkit.

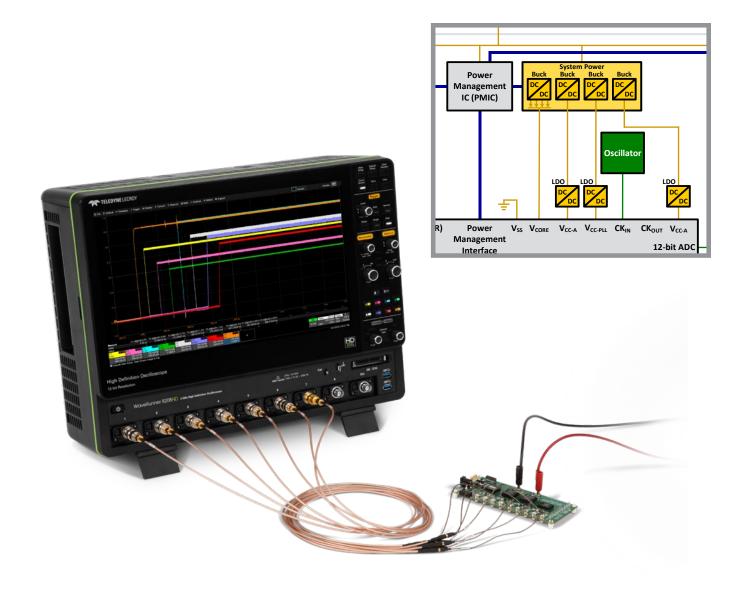
More channels for ECU debug

The flexibility of 8 12-bit analog channels and 16 digital channels make WaveRunner 8000HD the best way to analyze the array of analog, digital, and sensor signals in today's complex ECUs. Easily capture system startup behavior and perform causal analysis with 5 Gpt of memory.

EMI/EMC pre-compliance test

12-bit resolution for spectral analysis provides more insight. Specialized EMC/EMI pulse parameters provide measurement flexibility. Support for all relevant electrical and magnetic field units of measure. Capability to measure sub-1 Hz magnetic field strengths.





WaveRunner 8000HD 12-bit oscilloscopes' high resolution, long memory and high channel count let you validate and debug all aspects of power supply, delivery and consumption - for complete confidence.

Accurate PDN measurements

Make sensitive measurements like rail collapse characterization with total confidence thanks to WaveRunner 8000HD's high dynamic range and 0.5% gain accuracy. Its HD4096 architecture means an exceptionally low noise floor, for easily pinpointing noise sources.

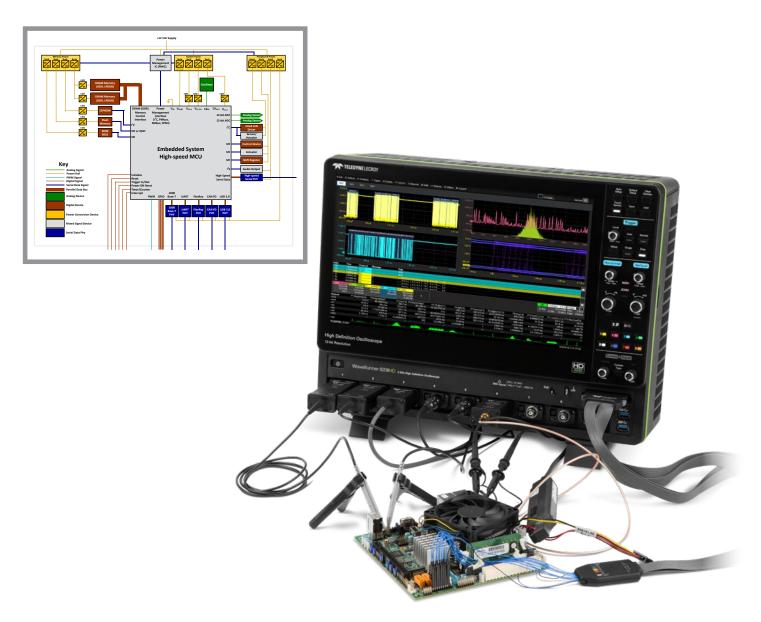
Specialized power probes

Combine WaveRunner 8000HD with the RP4030 4 GHz Power Rail Probe for unsurpassed insight into PDN behavior. The variety of probe tips ensures easy connectivity, and its low loading characteristics minimize disruption to the device under test.

Power sequencing

8 analog channels with 12-bit resolution and high offset capability give full visibility into power sequencing behavior - with 16 digital inputs available to decode and trigger on SPMI and other power management interfaces. Up to 5 Gpts of acquisition memory to capture every detail.





WaveRunner 8000HD 12-bit oscilloscopes acquire the longest records at the highest resolution for the most comprehensive deeply embedded computing system analysis (analog, digital, serial data, and sensor).

Powerful, deep toolbox

More standard math, measure, pass/fail and other tools than other oscilloscopes provide faster and more complete insight into circuit problems. Many additional application packages are optionally available to enhance understanding.

8 channels with long captures

8 channels with 12-bit resolution make the WaveRunner 8000HD the best performing oscilloscope for embedded systems testing, specifically those with sensor signals. 5 Gpts of memory captures every detail when performing causal analysis.

Comprehensive probe offering

A wide selection of low voltage, high voltage and current probes accurately measures every signal in your circuit. Additional probe adapters easily integrate third-party probes.

WAVERUNNER 8000HD OSCILLOSCOPES AT A GLANCE





Key Attributes

- 1. 15.6" 1920 x 1080 capacitive touchscreen display
- 2. 8 analog input channels
- 3. ProBus input supports every Teledyne LeCroy probe
- **4.** MAUI with OneTouch user interface for intuitive and efficient operation
- 5. Q-Scape multi-tab display architecture
- **6.** Up to 5 Gpts of acquisition memory
- 7. HD4096 technology 12 bits all the time
- **8.** Buttons/indicators color-coded to associated waveform on display

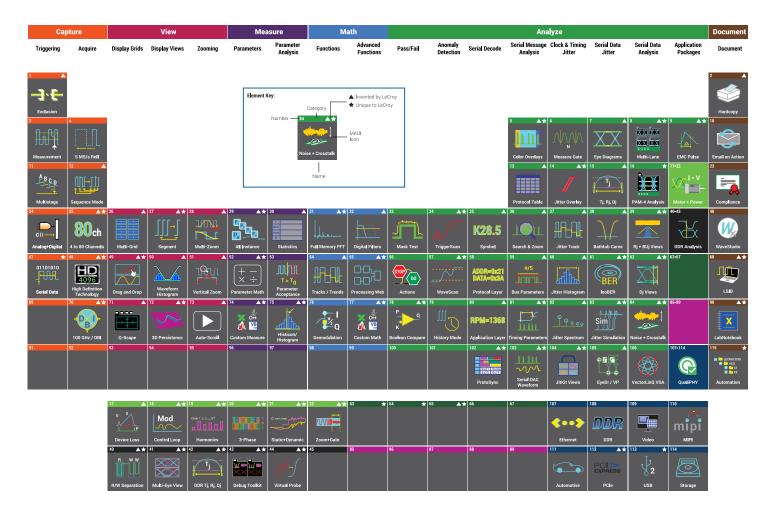
- **9.** Use cursors and adjust settings without opening a menu
- **10.** Mixed Signal capability with 16 integrated digital channels
- 11. 6 USB 3.1 ports (2 front, 4 side)
- **12.** HDMI and DisplayPort supports 4K (4096 x 2304) external monitor
- 13. Removable SSD (standard)
- **14**. View 16 channels on one display with OscilloSYNC
- **15.** Reference Clock Input/Output for connecting to other equipment
- **16.** USBTMC over USB 3.1 for fast data offload





POWERFUL, DEEP TOOLBOX





Our heritage

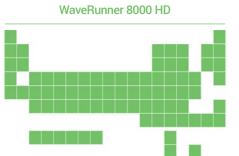
Teledyne LeCroy's 50+ year heritage is in processing long records to extract meaningful insight. We invented the digital oscilloscope and many of the additional waveshape analysis tools.

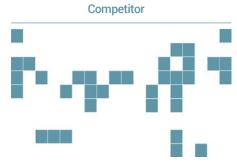
Our obsession

Our tools and operating philosophy are standardized across much of our product line. This deep toolbox inspires insight; and your moment of insight is our reward.

Our invitation

Our Periodic Table of Oscilloscope
Tools explains the toolsets that
Teledyne LeCroy has deployed in our
oscilloscopes. Visit our interactive
website to learn more about them.
teledynelecroy.com/tools







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

DL-ISO Series High Voltage Optically Isolated Probes

DL03-ISO DL07-ISO DL10-ISO



Ideal for GaN and SiC devices. Highest accuracy, most bandwidth, wide range of voltages, optical isolation.

ZS Series High Impedance Active Probes

ZS1000 ZS1500



1 to 4 GHz models. High signal fidelity and low circuit loading (<1 pF tip capacitance). ±8 V dynamic range, ±12 V offset.

Differential Probes (200 MHz - 1.5 GHz)

ZD1500, ZD1000, ZD500, AP033



Wide dynamic range, low loading and excellent noise performance. From 200 MHz to 1.5 GHz. Specialty AP033 provides 10x gain and high CMRR.

Active Voltage/Power Rail Probe

RP2060 RP4030



4 GHz bandwidth, ± 30 V offset, ± 800 mV dynamic range. High DC input impedance and low noise/attenuation. Best solution for probing power rails.

60 V Common Mode Differential Probes

DL05-HCM DL10-HCM



The ideal probes for lower voltage GaN power conversion measurement with the highest accuracy, best CMRR, and lowest noise. Up to 1 GHz bandwidth.

High Voltage Fiber Optically isolated Probe

HVF0108



Measures small signals floating on a HV bus. Highest CMRR, low DUT loading with optical isolation.

HVD Series High Voltage Differential Probes

HVD3102A, HVD3106A(1 kV) HVD3206A, HVD3220 (2 kV) HVD3605A (6 kV)



1 kV, 2 kV and 6 kV CAT safety rated models. Widest differential voltage ranges exceptional CMRR, low noise, 1% gain accuracy.

High Voltage Passive Probes

HVP120, PPE6KV-A



10x attenuating with 10 M Ω input resistance. Ideal for low frequency signals.

Current Probes

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



For AC, DC, and impulse current measurements. Utilizes combination of Hall effect and transformer technology. Up to 500A, up to 100 MHz.

Probe and Current Sensor Adapters

TPA10 CA10



Change between the different Teledyne LeCroy Oscilloscope input connections, interface to sensors, and provide interface to 3rd-party probes.



Vertical Analas Channels	WaveRunner 8038HD	WaveRunner 8058HD	WaveRunner 8108HD	WaveRunner 8208HD
Vertical - Analog Channels Analog Bandwidth @ 50 Ω (-3 dB)	350 MHz	500 MHz	1 GHz	2 GHz
Analog Bandwidth @ 1 MΩ (-3 dB)	350 MHz	500 MHz	500 MHz	500 MHz
Rise Time (10–90%, 50 Ω)	1 ns	700 ps	400 ps	235 ps
Rise Time (10-90%, 50 Ω)	750 ps	525 ps	300 ps	235 ps 176 ps
nput Channels	8	525 μ5	300 ps	170 μS
/ertical Resolution	12 bits; up to 15 bits with enl	hanged recolution (FDFC)		
			0.61:1-	0.41.1.
Effective Number of Bits (ENOB) /ertical Noise Floor (rms, 50 Ω)	8.9 bits	8.8 bits	8.6 bits	8.4 bits
1 mV/div	95 μV	100 μV	130 μV	170 μV
2 mV/div	95 μV	100 μV	130 μV	170 μV
5 mV/div	100 μV	105 μV	135 μV	175 μV
10 mV/div	115 µV	125 μV	155 μV	200 μV
20 mV/div	130 µV	145 µV	180 µV	235 µV
50 mV/div	185 µV	200 μV	250 μV	330 µV
100 mV/div	285 μV	310 µV	390 µV	510 μV
200 mV/div	1.30 mV	1.45 mV	1.80 mV	2.35 mV
500 mV/div	1.85 mV	2.00 mV	2.50 mV	3.25 mV
1 V/div	2.95 mV	3.15 mV	4.00 mV	5.20 mV
Sensitivity DC Vertical Gain Accuracy Gain Component of DC Accuracy) Channel-Channel Isolation	50 Ω: 1 mV-1 V/div, fully vari ±(0.5%) FS, offset at 0 V 70 dB up to 200 MHz 60 dB up to 350 MHz	70 dB up to 200 MHz 60 dB up to 500 MHz	70 dB up to 200 MHz 60 dB up to 500 MHz	70 dB up to 200 MHz 60 dB up to 500 MHz
Offset Range	50 dB up to 1 GHz 50 dB up to 1 GHz 40 dB up to 1 GHz 40 dB up to 2 GHz 50 Ω: 1 mV to 4.95 mV: ±1.6 V, 5 mV to 9.9 mV: ±4 V 10 mV to 19.8 mV: ±8 V, 20 mV to 1 V: ±10 V 1 MΩ: 1 mV to 4.95 mV: ±1.6 V, 5 mV to 9.9 mV: ±4 V			
OC Vertical Offset Accuracy Maximum Input Voltage	±(0.5% of offset value + 0.5% 50 Ω : 5 Vrms, ± 10 V Peak	102 mV to 198 mV: ±80 1.02 V to 1 5 FS + 1 mV)	20 mV to 100 mV: ±16 V V, 200 mV to 1 V: ±160 V 0 V: ±400 V	
	1 MΩ: 400 V max. (DC + Peal			
nput Coupling	1 MΩ: AC, DC, GND; 50 Ω: DC			
nput Impedance	$50 \Omega \pm 2\%$ or $1 M\Omega \parallel 19$ pF, 10			
Bandwidth Limiters	20 MHz, 200 MHz	20 MHz, 200 MHz, 350 MHz	20 MHz, 200 MHz, 350 MHz, 500 MHz	20 MHz, 200 MHz, 350 MHz, 500 MHz, 1 GH
	Length meters inches feet			
Rescaling	Angle: radian, arcdegr, arcmir Acceleration: m/s2, in/s2, ft/s Force (Weight): Newton, grain torr, psi; Electrical: Volts, Amp Volt/meter, Coulomb/m2, Far Henry/meter; Energy: Joule, I revolution/minute, N·m, Ib-ft,	s2, g0; Volume: liters, cubic m n, ounce, pound; Pressure: Pa ps, Watts, Volt-Amperes, Volt- rad/meter, Siemen/meter, pov BTU, calorie; Rotating Machin	turns; Velocity: m/s, in/s, ft/s leters, cubic inches, cubic fee scal, bar, atmosphere (techni Amperes reactive, Farad, Couver factor; Magnetic: Weber, e: radian/second, frequency,	hrenheit, Kelvin; , yd/s, miles/s; vt, cubic yards; cal), atmosphere (standard ılomb, Ohm, Siemen, Tesla, Henry, Amp/meter,
Rescaling Horizontal - Analog Channels	Angle: radian, arcdegr, arcmir Acceleration: m/s2, in/s2, ft/s Force (Weight): Newton, grain torr, psi; Electrical: Volts, Amp Volt/meter, Coulomb/m2, Far Henry/meter; Energy: Joule, I revolution/minute, N·m, Ib-ft,	n, arcsec, cycles, revolutions, s2, g0; Volume: liters, cubic mn, ounce, pound; Pressure: Paps, Watts, Volt-Amperes, Volt-rad/meter, Siemen/meter, povBTU, calorie; Rotating Machin lb-in, oz-in, Watt, horsepower	turns; Velocity: m/s, in/s, ft/s leters, cubic inches, cubic fee scal, bar, atmosphere (techni Amperes reactive, Farad, Couver factor; Magnetic: Weber, e: radian/second, frequency,	hrenheit, Kelvin; , yd/s, miles/s; vt, cubic yards; cal), atmosphere (standard ılomb, Ohm, Siemen, Tesla, Henry, Amp/meter,
Horizontal - Analog Channels Timebases	Angle: radian, arcdegr, arcmir Acceleration: m/s2, in/s2, ft/s Force (Weight): Newton, grain torr, psi; Electrical: Volts, Amp Volt/meter, Coulomb/m2, Fai Henry/meter; Energy: Joule, I revolution/minute, N·m, Ib-ft,	n, arcsec, cycles, revolutions, s2, g0; Volume: liters, cubic mn, ounce, pound; Pressure: Paps, Watts, Volt-Amperes, Volt-rad/meter, Siemen/meter, power lb-in, oz-in, Watt, horsepower o 8 input channels	turns; Velocity: m/s, in/s, ft/s eters, cubic inches, cubic fee scal, bar, atmosphere (techni Amperes reactive, Farad, Cou ver factor; Magnetic: Weber, e: radian/second, frequency, ; Other: %	hrenheit, Kelvin; , yd/s, miles/s; ,t, cubic yards; cal), atmosphere (standard llomb, Ohm, Siemen, Tesla, Henry, Amp/meter, revolution/second,
Horizontal - Analog Channels Timebases	Angle: radian, arcdegr, arcmir Acceleration: m/s2, in/s2, ft/s Force (Weight): Newton, grain torr, psi; Electrical: Volts, Amp Volt/meter, Coulomb/m2, Far Henry/meter; Energy: Joule, I revolution/minute, N·m, Ib-ft, Internal timebase common to 100 ps/div to 5 ks/div (up to 2000MPT memory, 100 ks/div	n, arcsec, cycles, revolutions, s2, g0; Volume: liters, cubic mn, ounce, pound; Pressure: Paps, Watts, Volt-Amperes, Volt-rad/meter, Siemen/meter, power lb-in, oz-in, Watt, horsepower 0 8 input channels 10 ks/div with 500MPT memory); F	turns; Velocity: m/s, in/s, ft/s eters, cubic inches, cubic fee scal, bar, atmosphere (techni Amperes reactive, Farad, Couver factor; Magnetic: Weber, e: radian/second, frequency, Other: %	hrenheit, Kelvin; , yd/s, miles/s; ,t, cubic yards; cal), atmosphere (standard llomb, Ohm, Siemen, Tesla, Henry, Amp/meter, revolution/second,
Horizontal - Analog Channels Timebases Time/Division Range	Angle: radian, arcdegr, arcmir Acceleration: m/s2, in/s2, ft/s Force (Weight): Newton, grain torr, psi; Electrical: Volts, Amp Volt/meter, Coulomb/m2, Far Henry/meter; Energy: Joule, I revolution/minute, N·m, Ib-ft, Internal timebase common to 100 ps/div to 5 ks/div (up to 2000MPT memory, 100 ks/div	n, arcsec, cycles, revolutions, s2, g0; Volume: liters, cubic mn, ounce, pound; Pressure: Paps, Watts, Volt-Amperes, Volt-rad/meter, Siemen/meter, power lb-in, oz-in, Watt, horsepower 0 8 input channels 10 ks/div with 500MPT memory); F	turns; Velocity: m/s, in/s, ft/s eters, cubic inches, cubic fee scal, bar, atmosphere (techni Amperes reactive, Farad, Couver factor; Magnetic: Weber, e: radian/second, frequency, Other: %	hrenheit, Kelvin; , yd/s, miles/s; ,t, cubic yards; cal), atmosphere (standard llomb, Ohm, Siemen, Tesla, Henry, Amp/meter, revolution/second,
Horizontal - Analog Channels Timebases Time/Division Range	Angle: radian, arcdegr, arcmir Acceleration: m/s2, in/s2, ft/s Force (Weight): Newton, grain torr, psi; Electrical: Volts, Amp Volt/meter, Coulomb/m2, Far Henry/meter; Energy: Joule, I revolution/minute, N·m, Ib-ft, Internal timebase common to 100 ps/div to 5 ks/div (up to 2000MPT memory, 100 ks/div 1 ppm + 1 ppm/year from coup to 10 µs Acquired Time R	n, arcsec, cycles, revolutions, s2, g0; Volume: liters, cubic mn, ounce, pound; Pressure: Paps, Watts, Volt-Amperes, Volt-rad/meter, Siemen/meter, power lb-in, oz-in, Watt, horsepower 0 8 input channels 10 ks/div with 500MPT memory); Falibration lange: 80 fsrms (Internal Times)	turns; Velocity: m/s, in/s, ft/s eters, cubic inches, cubic feescal, bar, atmosphere (techni Amperes reactive, Farad, Couver factor; Magnetic: Weber, e: radian/second, frequency, Other: % hory, 25 ks/div with 1000MP Roll Mode available at ≥ 100 measurements	hrenheit, Kelvin; , yd/s, miles/s; ,t, cubic yards; cal), atmosphere (standard llomb, Ohm, Siemen, Tesla, Henry, Amp/meter, revolution/second,
	Angle: radian, arcdegr, arcmir Acceleration: m/s2, in/s2, ft/s Force (Weight): Newton, grain torr, psi; Electrical: Volts, Amp Volt/meter, Coulomb/m2, Far Henry/meter; Energy: Joule, Erevolution/minute, N·m, Ib-ft, Internal timebase common to 100 ps/div to 5 ks/div (up to 2000MPT memory, 100 ks/div 1 ppm + 1 ppm/year from cup to 10 ms Acquired Time Rup to 10 ms Acquire	n, arcsec, cycles, revolutions, s2, g0; Volume: liters, cubic mn, ounce, pound; Pressure: Paps, Watts, Volt-Amperes, Volt-rad/meter, Siemen/meter, power lb-in, oz-in, Watt, horsepower 0 8 input channels 10 ks/div with 500MPT memory); Falibration lange: 80 fsrms (Internal Times)	turns; Velocity: m/s, in/s, ft/s leters, cubic inches, cubic feescal, bar, atmosphere (techni Amperes reactive, Farad, Couver factor; Magnetic: Weber, e: radian/second, frequency, Other: % hory, 25 ks/div with 1000MP Roll Mode available at ≥ 100 mebase Reference)	hrenheit, Kelvin; , yd/s, miles/s; ,t, cubic yards; cal), atmosphere (standard llomb, Ohm, Siemen, Tesla, Henry, Amp/meter, revolution/second,
Horizontal - Analog Channels Timebases Time/Division Range Clock Accuracy Sample Clock Jitter	Angle: radian, arcdegr, arcmir Acceleration: m/s2, in/s2, ft/s Force (Weight): Newton, grain torr, psi; Electrical: Volts, Amp Volt/meter, Coulomb/m2, Far Henry/meter; Energy: Joule, Erevolution/minute, N·m, Ib-ft, Internal timebase common to 100 ps/div to 5 ks/div (up to 2000MPT memory, 100 ks/divided to 10 ps/divided Time Rup to 10 ms Acquired Time Rup to 10 ms Acquired Time Files (Noise SlewRate) 12	n, arcsec, cycles, revolutions, s2, g0; Volume: liters, cubic mn, ounce, pound; Pressure: Paps, Watts, Volt-Amperes, Volt-rad/meter, Siemen/meter, povBTU, calorie; Rotating Machin lb-in, oz-in, Watt, horsepower 0 8 input channels 10 ks/div with 500MPT memory); Figalibration 10 tange: 80 fsrms (Internal Timerange: 150 fsrms (Internal Timera	turns; Velocity: m/s, in/s, ft/s, eters, cubic inches, cubic feescal, bar, atmosphere (techni Amperes reactive, Farad, Couver factor; Magnetic: Weber, e: radian/second, frequency, cother: % hory, 25 ks/div with 1000MP Roll Mode available at ≥ 100 mebase Reference) hory * reading* (seconds)	hrenheit, Kelvin; , yd/s, miles/s; ,t, cubic yards; cal), atmosphere (standard llomb, Ohm, Siemen, Tesla, Henry, Amp/meter, revolution/second,



	WaveRunner 8038HD	WaveRunner 8058HD	WaveRunner 8108HD	WaveRunner 8208HD	
Acquisition - Analog Channels					
Sample Rate (Single-Shot)	10 GS/s on 8 Ch with Enhanced Sample Rate				
Memory Length (8 Ch / 4 Ch / 2 Ch)	Standard:				
(Number of segments in sequence	50 Mpts / 100 Mpts / 200 Mpts (65,535 segments)				
acquisition mode)	WR8KHD-500MPT Option: 125 Mpts / 250 Mpts / 500 Mpts (65,535 segments)				
		WR8KHD-100			
	250 Mpts / 500 Mpts / 1000 Mpts (65,535 segments) WR8KHD-2000MPT Option: 500 Mpts / 1000 Mpts / 2000 Mpts (65,535 segments) WR8KHD-5000MPT Option:				
	1250 Mpts / 2500 Mpts / 5000 Mpts (65,535 segments)				
		Maximum analysis memo	ory: 500 Mpts per channel		
Intersegment Time	1.5 µs				
Averaging		on sweeps; continuous avera		veforms of ≤ 500 Mpts)	
Interpolation	Linear or Sinx/x (2 pt and 5 p	t) (waveforms of ≤ 500 Mpts)			
Vertical Harizantal Assuriaition	Digital Channels (WD9VII	ID MCO anhy)			
Vertical, Horizontal, Acquisition Maximum Input Frequency	500 MHz	IVIOU UIIIY)			
Minimum Detectable Pulse Width					
Input Dynamic Range	1 ns ±20 V				
Input Impedance (Flying Leads)	±20 V 100 kΩ 5 pF				
Input Channels	16 Digital Channels				
Maximum Input Voltage	±30 V Peak				
Minimum Input Voltage Swing	400 mV				
Threshold Groupings	Pod 2: D15 to D8, Pod 1: D7 t	- D0			
Threshold Selections		. 5 V), PECL, LVDS or User Def	inad		
Threshold Accuracy	\pm (3% of threshold setting + 1		ined		
User Defined Threshold Range	±10 V in 20 mV steps	00 1117)			
User Defined Hysteresis Range	100 mV to 1.4 V in 100 mV ste	200			
Sample Rate	2.5 GS/s	:05			
Record Length	Standard: 50 Mpts				
necord Length	Any memory option: 500 Mp				
Channel-to-Channel Skew	350 ps				
	•				
Triggering System					
Modes	Normal, Auto, Single, and Sto	op (acquisition of ≤ 500 Mpts)	ı		
	Single (acquisition of > 500 N				
Sources		<u>0, or Line; slope and level uniq</u>	ue to each source (except Lin	e)	
Coupling	DC, AC, HFRej, LFRej				
Pre-trigger Delay	0 to 100% of memory size				
Post-trigger Delay	No limitation				
Hold-off	From 1 ns up to 20 s or from				
Trigger and Interpolator Jitter	≤ 2.5 ps RMS (typical), < 0.1 ps RMS (typical, software assisted)				
Internal Trigger Level Range	±4.1 div from center (typical)				
External Trigger Level Range	Ext (±0.4 V); Ext/10 (±4 V)				
Maximum Trigger Rate	650,000 waveforms/second				
Trigger Sensitivity with Edge Trigger	0.9 div @ < 10 MHz	0.9 div @ <1 0 MHz	0.9 div @ <1 0 MHz	0.9 div @ < 10 MHz	
(Ch 1-8)	1.0 div @ < 200 MHz	1.0 div @ < 200 MHz	1.0 div @ < 200 MHz	1.0 div @ < 200 MHz	
	1.5 div @ < 350 MHz	1.5 div @ < 500 MHz	1.5 div @ < 500 MHz	1.5 div @ < 500 MHz	
			2.0 div @ < 1 GHz	2.0 div @ < 1 GHz	
Estamal Trianna Constitute	0.0 45.4 6 3.0 8415	0.0 45.0 10.1411-	0.0 45.0 10.141.5	2.5 div @ < 2 GHz	
External Trigger Sensitivity,	0.9 div @ < 10 MHz	0.9 div @ < 10 MHz	0.9 div @ < 10 MHz	0.9 div @ < 10 MHz	
Edge Trigger	1.0 div @ < 200 MHz 1.5 div @ < 350 MHz	1.0 div @ < 200 MHz 1.5 div @ < 500 MHz	1.0 div @ < 200 MHz 1.5 div @ < 500 MHz	1.0 div @ < 200 MHz 1.5 div @ < 500 MHz	
	1.5 div @ < 550 ivinz	1.5 div (w < 500 ivinz	4.5 div @ < 1 GHz	4.5 div @ < 1 GHz	
Max. Trigger Frequency,	350 MHz	500 MHz	1 GHz	2.0 GHz	
SMART Trigger		300 WI 12	I OHZ	2.0 0112	
Civil II I I I I I I I I I I I I I I I I I					



	WaveRunner 8038HD W	laveRunner 8058HD	WaveRunner 8108HD	WaveRunner 8208HD
Trigger Types				
Edge	Triggers when signal meets slop			
Width	Triggers on positive or negative of Minimum width: 750 ps, maximum	ım width: 20 s		
Glitch	Triggers on positive or negative of Minimum width: 750 ps, maximum	glitches with selectable widum width: 20 s	dths.	
Window	Triggers when signal exits a wind			
Pattern	Logic combination (AND, NAND, high, low, or don't care. The high	OR, NOR) of 9 inputs (8 cha and low level can be select	annels and external trigger in led independently. Triggers at	put). Each source can be t start or end of pattern.
Runt	Trigger on positive or negative ru			
Slew Rate	Trigger on edge rates. Select lim		<u>lect edge limits between 1 n</u> :	s and 20 ns.
Interval	Triggers on intervals selectable b			
Dropout	Triggers if signal drops out for lo			
Measurement	Select from a large number of m			
Multi-stage: Qualified	Triggers on any input source only sources is selectable by time or	events.	<u> </u>	•
Multi-stage: Qualified First	In Sequence acquisition mode, to satisfied in the first segment of t	riggers repeatably on even he acquisition. Holdoff bet	t B only if a defined pattern, s ween sources is selectable l	state or edge (event A) is by time or events.
Low Speed Serial Protocol Trigge				
	12C, I3C, SPI (SPI, SSPI, SIOP), UA (12S, LJ, RJ, TDM), USB1.x/2.0, S	ART-RS232, CAN1.1, CAN2 PMI	.0, CAN FD, LIN, FlexRay, SEN	NT, MIL-STD-1553, AudioBus
Measurement Tools				
Measurement Functionality	Display up to 12 measurement p deviation, and total number. Each Histicons provide a fast, dynamic addition, subtraction, multiplicat measurement on the source way	h occurrence of each para c view of parameters and v ion, or division of two diffe	meter is measured and adde waveshape characteristics. F rent parameters. Parameter	ed to the statistics table. Parameter math allows gates define the location for
Measurement Parameters - Horizontal and Jitter	or waveform state. Cycles (number of), Delay (from Fall Time (90-10, @levels), Frequ (peakpeak), Number of Points, Postup (@levels), Skew (@levels), Width (50%, @level), Δ Width (@levels)	iency (50%, @level), Half Period (50%, @level), A Period	eriod (@level), Hold Time (@ od (@level), Phase (@level), F	level), N Cycle Jitter Rise Time (10-90, @levels)
Measurement Parameters - Vertical	Amplitude, Base, Level@X, Maxir			
Measurement Parameters - Pulse	Area, Base, Fall Time (90-10, 80-1) Width (50%)			
Measurement Parameters - Statistical (on Histograms)	Full Width (@HalfMax, @%), Amp Range, RMS, Std. Deviation, Top,	olitude, Base, Peak@MaxP X(value)@Peak, Peaks (nu	opulation, Maximum, Mean, umber of), Percentile, Popula	Median, Minimum, Mode, tion (@bin, total)
Math Tools				
Math Functionality	Display up to 12 math functions operations on each function trac	traces (F1-F12). The easy- ce, and function traces can	to-use graphical interface si be chained together to perfo	mplifies setup of up to two orm math-on-math.
Math Operators - Basic Math	Average (summed), Average (cor Reciprocal, Rescale (with units),	ntinuous), Difference (–), E Roof, Sum (+)	nvelope, Floor, Invert (negate	e), Product (x), Ratio (/),
Math Operators - Digital (incl. with MSO option)	Digital AND, Digital DFlipFlop, Dig	gital NAND, Digital NOR, Di	gital NOT, Digital OR, Digital X	XOR
Math Operators - Filters	Enhanced Resolution (ERes) to 1	15 bits vertical, Interpolate	(cubic, quadratic, sinx/x)	
Math Operators - Frequency Analysis	FFT (power spectrum, magnitud memory length. Select from Rec	e, phase, power density, re tangular, VonHann, Hamm	al, imaginary, magnitude squ ing, FlatTop and Blackman F	uared) up to full analysis Harris windows.
Math Operators - Functions	Absolute value, Correlation (two Invert (negate), Log (base e), Log	waveforms), Derivative, De	eskew (resample). Exp (base	e). Exp (base 10). Integral.
Math Operators - Other	Segment, Sparse			, , , , , , , , , , , , , , , , , , , ,
Measurement and Math Integrat				6
	Histogram of statistical distribut measurements. Track (measure histogram and persistence trace	ment vs. time, time-correla	surements. Trend (datalog) of any pated to acquisitions) of any p	oarameter. Persistence
Pass/Fail Testing				
	Display up to 12 Pass/Fail querie <, ≤, =, >, ≥, within limit ±∆ value of In, or Any Out conditions). Comb True", "Any False", or groups of "A (send) Pulse, (save) LabNoteboo	or %) or Mask Test (pre-def ine queries into a boolean III" or "Any", with following	ined or user-defined mask, w expression to Pass or Fail IF THEN Save (waveforms), Sto	vaveform All In, All Out, Any "All True", "All False", "Any



	WaveRunner 8038HD WaveRunner 8058HD WaveRunner 8108HD WaveRunner 8208HD			
Display System				
Size	Color 15.6" widescreen capacitive touch screen			
Resolution	Full HD (1920 x 1080 pixels)			
Number of Traces	Display a maximum of 40 traces. Simultaneously display channel, zoom, memory and math traces.			
Grid Styles	Auto, Single, Dual, Triplex, Quad, Octal, Tandem, Triad, Quattro, Twelve, Sixteen, Twenty, X-Y, Single+X-Y, Dual+X-Y. Supports Normal Display Mode (1 grid style, selectable) or Q-Scape Display Mode (4 different tabs, each with individually selectable grid styles). Q-Scape tabbed displays may be viewed in Single, Dual, or Mosaic mode.			
Waveform Representation	Sample dots joined, or sample dots only			
Processor/CPU				
Type	Intel® Core i5-6500 Quad Core, 3.2 GHz (or better)			
Processor Memory	16 GB standard			
Operating System	Microsoft Windows® 10			
Real Time Clock	Date and time displayed with waveform in hardcopy files. SNTP support to synchronize to precision internal clocks.			
Connectivity				
Ethernet Port	2 x 10/100/1000BaseT Ethernet interface (RJ45 port)			
USB Host Ports	4 side USB 3.1 Gen1 ports, 2 front USB 3.1 Gen1 ports			
USB Device Port	1 USBTMC over USB 3.1 Gen1 port			
GPIB Port (Optional)	Supports IEEE-488.2 (External)			
External Monitor Port	1 x DisplayPort, supports up to 4096x2304 @ 24 Hz 1 x HDMI, supports up to 4096x2304 @ 60 Hz			
Remote Control	Microsoft COM Automation or LeCroy Remote Command Set			
Network Communication Standard	VICP or VXI-11, LXI Compatible			
Power Requirements	20. 061.7 47. 60.1			
Voltage	90 to 264 Vrms, 47 to 63 Hz 90 to 132 Vrms, 380 to 420 Hz			
Nominal Power Consumption	400 W / 400 VA			
Max Power Consumption	500 W / 500 VA			
Environmental				
Temperature (Operating)	+5 °C to +40 °C			
Temperature (Non-Operating)	-20 °C to +60 °C			
Humidity (Operating)	5% to 90% relative humidity (non-condensing) up to +31 °C Upper limit derates to 50% relative humidity (non-condensing) at +40 °C			
Humidity (Non-Operating)	5% to 95% relative humidity (non-condensing) as tested per MIL-PRF-28800F			
Altitude (Operating)	Up to 10,000 ft (3048 m) at or below +30 °C			
Altitude (Non-Operating)	Up to 40,000 ft (12,192 m)			
Random Vibration (Operating)	0.31 grms 5 Hz to 500 Hz, 20 minutes in each of three orthogonal axes			
Random Vibration (Non-Operating)	2.4 grms 5 Hz to 500 Hz, 15 minutes in each of three orthogonal axes			
Functional Shock	30 g peak, half sine, 11 ms pulse, 3 shocks (positive and negative) in each of three orthogonal axes, 18 shocks total			
Size and Weight				
Dimensions (HWD)	13.6" H x 17.5" W x 7.7" D (345 mm x 445 mm x 196 mm)			
Weight	24.4 lbs (11.1kg)			
Certifications				
CE Certification UL and cUL Listing	CE compliant, UL and cUL listed; conforms to UL 61010-1 (3rd Edition), UL 61010-2-030 (1st Edition) CAN/CSA C22.2 No. 61010-1-12			
Warranty and Service				
-	3-year warranty; calibration recommended annually. Optional service programs include extended warranty, upgrades, and calibration services.			

ORDERING INFORMATION



	Allon		4096
Product Description	Product Code	Product Description	Product Code
WaveRunner 8000HD Oscilloscopes		Serial Trigger and Decode Options (cont'd)	
350 MHz, 8 Ch, 12 Bits, 10 GS/s, 50 Mpts/Ch	WaveRunner 8038HD		XL TDME Symbolic
High Definition Oscilloscope			HD-DIGRF3GBUS D
with 15.6" 1920x1080 capacitive touch screen			HD-DIGRFV4BUS D
and 4K extended desktop		DisplayPort AUX Decode, Measure/Graph, and WR	8KHD-DPAUX DMP
500 MHz, 8 Ch, 12 Bits, 10 GS/s, 50 Mpts/Ch	WaveRunner 8058HD	Physical Layer Option	
High Definition Oscilloscope			WR8KHD-DPAUX D
with 15.6" 1920x1080 capacitive touch screen			8KHD-DPHYBUS D
and 4K extended desktop		Embedded Bundle: I2C, SPI, UART-RS232 Trigger & Decode	WR8KHD-EMB TD
1 GHz, 8 Ch, 12 Bits, 10 GS/s, 50 Mpts/Ch	WaveRunner 8108HD		R8KHD-EMB TDME
High Definition Oscilloscope		Trigger, Decode, Measure/Graph & Eye Diagram	TOTATIO EIVID TOTALE
with 15.6" 1920x1080 capacitive touch screen			R8KHD-ENETBUS D
and 4K extended desktop	11/ B 000011B	FlexRay Trigger & Decode WR8KHI	D-FLEXRAYBUS TD
2 GHz, 8 Ch, 12 Bits, 10 GS/s, 50 Mpts/Ch	WaveRunner 8208HD		LEXRAYBUS TDMP
High Definition Oscilloscope		Measure/Graph & Physical Layer Tests	
with 15.6" 1920x1080 capacitive touch screen			R8KHD-I2CBUS TD
and 4K extended desktop			KHD-I2CBUS TDME
Included with Standard Configurations		Measure/Graph & Eye Diagram I3C Trigger & Decode WI	R8KHD-I3CBUS TD
÷10, 500 MHz passive probe (Qty. 4), protective cov	ver, Getting Started		KHD-13CBUS TDME
Guide, Microsoft Windows® 10, commercial NIST t		Measure/Graph & Eye Diagram	TID ISODOS IDIVIL
with certificate, power cable for the destination cou			R8KHD-LINBUS TD
M. 10. 10.17.			KHD-LINBUS TDME
Mixed Signal Solutions	14/D01/11/D 1400	Measure/Graph & Eye Diagram	
Mixed Signal Oscilloscope (incl. 16-channel digital	WR8KHD-MS0		ANCHESTERBUS D
leadset, 22 extra large gripper probes, 20 ground extenders, 5 flexible ground leads and license)			R8KHD-MDIOBUS D
extenders, 5 flexible ground leads and license)		NRZ Decode W	R8KHD-NRZBUS D
Memory Upgrade Options		PMBus Trigger, Decode, Measure/Graph, WR8k and Eye Diagram Option	KHD-PMBUS TDME
500 Mpt/2 Ch (250 Mpt/4 Ch, 125 Mpt/8 Ch)	WR8KHD-500MPT		R8KHD-PMBUS TD
1 Gpt/2 Ch (500 Mpt/4 Ch, 250 Mpt/8 Ch)	WR8KHD-1000MPT		BKHD-SENTBUS TD
2 Gpt/2 Ch (1 Gpt/4 Ch, 500 Mpt/8 Ch)	WR8KHD-2000MPT		D-SENTBUS TDME
5 Gpt/2 Ch (2.5 Gpt/4 Ch, 1.25 Gpt/8 Ch)	WR8KHD-5000MPT	Measure/Graph & Eye Diagram	
CPU, Computer and Other Hardware Options			KHD-SMBus TDME
Additional Standard Solid State Drive	WR8KHD-RSSD-02	and Eye Diagram	
	R8KHD-UPG-32GBRAM		R8KHD-SMBUS TD
*32 GB RAM upgrade is included with all memory upg			-SPACEWIREBUS D
	rade optiono.		R8KHD-SPIBUS TD KHD-SPIBUS TDME
Oscilloscope Synchronization Options		Measure/Graph & Eye Diagram	YUD-SLIBOS I DIVIE
,	WR8KHD-16CH-SYNCH		BKHD-SPMIBUS TD
two WaveRunner/MDA 8000HD oscilloscopes)			ID-SPMIBUS TDME
Serial Trigger and Decode Options		Measure/Graph & Eye Diagram	
	HD-100Base-T1BUS TD		ART-RS232BUS TD
100Base-T1 Trigger and Decode Whoki			T-RS232BUS TDME
Graph, and Eye Diagram	TOODGOC TIDOO TOWLE	Measure/Graph & Eye Diagram	DIVID LICEOUS TO
10Base-T1S Trigger, Decode, Measure/ WR8K	HD-10BASE-T1S TDME		BKHD-USB2BUS TD
Graph, and Eye Diagram		USB 2.0 Trigger, Decode, WR8KH Measure/Graph & Eye Diagram	ID-USB2BUS TDME
	R8KHD-10BASE-T1S TD		D-USB2-HSICBUS D
MIL-STD-1553 Trigger & Decode	WR8KHD-1553 TD		R8KHD-USBPD TD
MIL-STD-1553 Trigger, Decode,	WR8KHD-1553 TDME		KHD-USBPD TDMP
Measure/Graph & Eye Diagram 8b10b Decode	WR8KHD-8B10B D	and Physical Layer	
	C429BUS D SYMBOLIC		8KHD-USB4-SB TD
	29BUS DME SYMBOLIC		HD-USB4-SB TDMP
Measure/Graph & Eye Diagram	L9DOO DIVIL OT WIDOLIO	Measure/Graph, and Physical Layer	
	VR8KHD-AUDIOBUS TD	Serial Data Compliance Test Options	
	R8KHD-AUDIOBUS TDG		PHY-1000BASE-T1*
CAN FD Trigger & Decode WI	R8KHD-CAN FDBUS TD	100Base-T1/BroadR-Reach Compliance Software	QPHY-100Base-T1
	(HD-CAN FDBUS TDME		QPHY-10BASE-T1L
Measure/Graph & Eye Diagram	DUO TONICE CONTRACTOR	QualiPHY 10Base-T1S Compliance Software	QPHY-10Base-T1S
	BUS TDME SYMBOLIC	QualiPHY Ethernet 10/100/1000BT Software	QPHY-ENET*
Decode, Measure/Graph & Eye Diagram		QualiPHY MOST150 Software	QPHY-MOST150
CAN Trigger & Decode	WR8KHD-CANBUS TD	QualiPHY MOST50 Software	QPHY-MOST50
	R8KHD-CANBUS TDME	QualiPHY USB 2.0 Software	QPHY-USB‡
Measure/Graph& Eye Diagram		10/100/1000Base-T Ethernet Test Fixture	TF-ENET-B**
CAN Symbolic Trigger, Decode, WR8KHD-CAN	IBUS TDME SYMBOLIC	USB4 Sideband Test Coupon Fixture	TF-USB-C-SB
Measure/Graph & Eye Diagram		USB 2.0 Compliance Test Fixture	TF-USB-B
CAN XL Trigger and Decode	WR8KHD-CAN XL TD	*TF-ENET-B required	-
DIOTDAM	T41 . 00 05 74 05 00	includes LINE 1-ZOAD-SIVIAU 10 dilu EINE 1-ZADA-BINGSIVIA	'

ORDERING INFORMATION

ONDERING IN ORIMATION		
Product Description Product Code	Product Description	Product Code
Debug Toolkit Options	Probes (cont'd)	
100Base-T1 and 1000Base-T1 WR8KHD-AUTO-ENET-TOOLKI		HVF0108
Debug Toolkit	500 MHz Passive Probe, 2.5mm, 10:1, 10 MΩ	PP021
Automotive Ethernet Breakout Test Fixture for TF-AUTO-ENE	500 MHz Passive Probe, 5mm, 10:1, 10 MΩ	PP025
10Base-T1S, 100Base-T1, and 1000Base-T1 Debug and	1 GHz, 0.9 pF, 1 MΩ High Impedance Active Probe	ZS1000
Compliance Testing	1.5 GHz, 0.9 pF, 1 MΩ High Impedance Active Probe	ZS1500
Carial Data Analysis Ontions	500 MHz, 1.0 pF Active Differential Probe, ±8 V	ZD500
Serial Data Analysis Options Serial Data Analysis Software (single-lane eye, WR8KHD-SDAII	1 GHz, 1.0 pF Active Differential Probe, ±8 V	ZD1000
jitter and noise measurements)	1.5 GHZ, 1.6 pr Active Differential Flobe, ±6 v	ZD1500
Eye Doctor II Software (channel & fixture WR8KHD-EYEDRI	500 MHz, Active Differential Probe (÷1, ÷10, ÷100)	AP033
de-embedding/emulation, Tx/Rx equalization)	30 A, 50 MHz Current Probe - AC/DC, 30 Arms, 50 A peak pulse, 1.5-meter cable	CP030
Virtual Probe Software (advanced WR8KHD-VIRTUALPROBE		CP030-3M
de-embedding, emulation and virtual probing)	AC/DC, 30 Arms, 50 A peak pulse, 3-meter cable	OI 000 0IVI
Serial Data Mask Software WR8KHD-SDN	30 A, 50 MHz High Sensitivity Current Probe -	CP030A
Cable De-Embedding Software WR8KHD-CBL-DE-EMBE	AC/DC, 30 Arms, 50 A peak pulse, 1.5-meter cable	
•	30 A, 100 MHz Current Probe -	CP031
Power Analysis Options	AC/DC, 30 Arms, 50 A peak pulse, 1.5-meter cable 30A, 100 MHz High Sensitivity Current Probe -	CP031A
3-phase Vector Display option WR8KHD-THREEPHASEVECTOR	AC/DC 30 Arms 50 A peak pulse 1 5-meter cable	CPUSTA
Power Analyzer Software WR8KHD-PWF	150 A 10 MHz Current Probe	CP150
3-phase dq0 Transform option WR8KHD-THREEPHASEDQ0	AC/DC, 150 Arms; 500 A peak pulse, 2-meter cable	
Digital Power Management Analysis Software WR8KHD-DIG-PWR-MGM	- 130 A, 3 MHZ GUITEHLI TODE	CP150-6M
3-Phase Power Analysis Software WR8KHD-THREEPHASEPOWER		
3-Phase Harmonics Calculation WR8KHD-THREEPHASEHARMONICS	500 A, 2 MHz Current Probe -	CP500
Software (requires WR8KHD-THREEPHASEPOWER)	AC/DC, 500 Arms, 700 A peak pulse, 6-meter cable Deskew Calibration Source	DCS025
Whokid-iinelfiastfowen)	Programmable Current Sensor to ProBus Adapter	CA10
Jitter Analysis Options	(for third-party current sensors)	CATO
JitKit Software (clock/clock-data jitter analysis WR8KHD-JITKI		HVP120
with statistical, spectral and jitter overlay)	6kV High Voltage Passive Probe, 500 MHz	PPE6KV-A
	TekProbe to ProBus Probe Adapter	TPA10
Digital Filtering Options	1 kV, 25 MHz High Voltage Differential Probe	HVD3102A
Digital Filter Software WR8KHD-DFP2	1 kV, 25 MHz High Voltage Differential Probe	HVD3102A-NOACC
Other Software Options	(without tip accessories)	
EMC Pulse Parameter WR8KHD-EMC	1 kV, 120 MHz High Voltage Differential Probe	HVD3106A
Spectrum Analyzer for WaveRunner 8000HD - WR8KHD-SPECTRUM-	- I NV. 120 IVIDZ DIUH VOITAUE DIHEIEHHAI FIODE	HVD3106A-NOACC
1 trace	1 kV, 80 MHz High Voltage Differential Probe -	HVD3106A-6M
Spectrum Analyzer for WaveRunner WR8KHD-SPECTRUM-PRO-2F		TIVESTOOA OW
8000HD - 2 traces + reference	2 kV, 120 MHz High Voltage Differential Probe	HVD3206A
VectorLinQ Vector Signal Analysis WR8KHD-VECTORLING		HVD3206A-6M
Advanced Customization WR8KHD-XDEV		
	6 kV, 100 MHz High Voltage Differential Probe	HVD3605A
Offline Analysis Software	2kV, 400 MHz High Voltage Differential Probe	HVD3220
MAUI Studio Pro Offline Remote and MAUI Studio Pro	7.5 GHz Low Capacitance Passive Probe $(\div 10, 1 \text{ k}\Omega; \div 20, 500 \Omega)$	PP066
PC Analysis Software License	500 MHz 60 V Common Mode Differential Probe	DL05-HCM
Remote Control/Network Options	1 GHz 60 V Common Mode Differential Probe	DL10-HCM
External USB2 to GPIB Adaptor USB2-GPIB	-	DETOTION
External 03b2 to 01 ib Adaptol)	
General Accessories	Overtone on Compies	
WaveRunner 8000HD Rackmount Kit WR8KHD-RACKMOUN	Customer Service	
Instrument Cart (with additional shelf and drawer) OC1024-A	high reliability. In the unlikely event you experience difficulties	, our digital oscillo-
Probes - Please consult sales	scopes are fully warranted for three years and our probes are	warranted for one year.
High Voltage Optically Isolated Probe, 350 MHz Bandwidth. DL03-ISO		
High Voltage Optically Isolated Probe, 700 MHz Bandwidth DL07-ISO	- '' 9	
High Voltage Optically Isolated Probe, 1 GHz Bandwidth DL10-ISO		
Power/Voltage Rail Probe. 2 GHz bandwidth, 1.2x attenua-	• Upgrade to latest software at no charge	
tion, +/-60V offset, +/-800mV Power/Voltage Rail Probe. 4 GHz bandwidth, 1.2x attenua-RP4030		
tion, +/-60V offset, +/-800mV		
tion, 1/ 00 V 0113CL, 1/ 000111V		



1-800-5-LeCroy teledynelecroy.com

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