

CAPTURE EVERY DETAIL

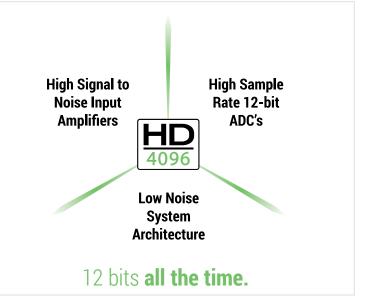


Highest Resolution HD4096 Technology, 12 bits all the time

Bigger Display, smaller footprint, most bench space

More Capability, increased productivity

Highest Resolution





Bigger Display



More Capability



with OneTouch Cab Notebook OneTouch OneTouch Cab Notebook OneTouch Cab Notebook OneTouch OneTouch Cab Notebook OneTouch OneTo



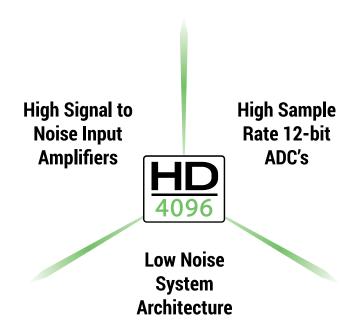
Providing 12 bits all the time, a bigger display, smaller footprint, and more capability, the HDO6000B captures every detail.

12 bits all the time.



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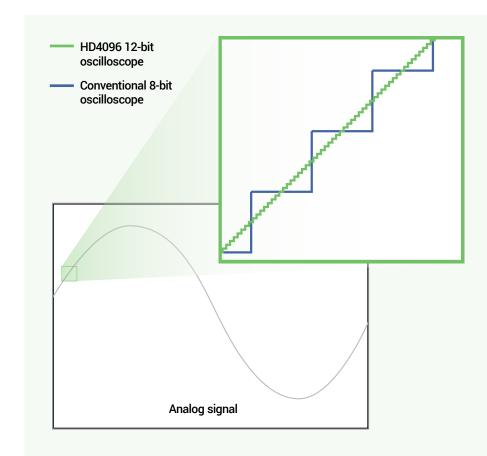
HD4096 TECHNOLOGY - 16X CLOSER TO PERFECT



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 1 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 1 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

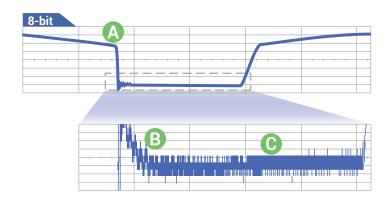
When compared to waveforms acquired and displayed using conventional 8-bit oscilloscopes, waveforms captured with HD4096 12-bit technology are dramatically crisper and cleaner, and are displayed more accurately. Once you see a waveform acquired with HD4096 technology, you will not want to go back to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

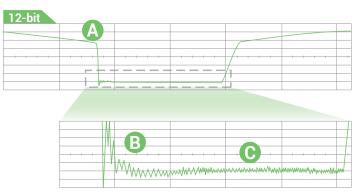
More signal details

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.

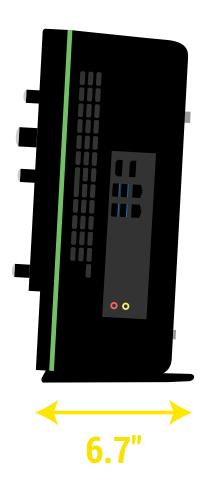




- A Clean, crisp waveforms | Thin traces show the actual waveform with minimal noise interference.
- **More signal details** | Waveform details can now be clearly seen on an HD4096 12-bit oscilloscope.
- Unmatched measurement precision | Measurements are more precise and not affected by quantization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

BIGGER DISPLAY, SMALLER FOOTPRINT, MORE BENCH SPACE





Capture every detail with the HDO6000B's bigger 15.6" display.

Bigger display

With a 15.6" display and 1920x1080 resolution, the HDO6000B allows you to capture more detail. Connect to a second monitor, and view the extended desktop in glorious 4K resolution.

Smallest footprint

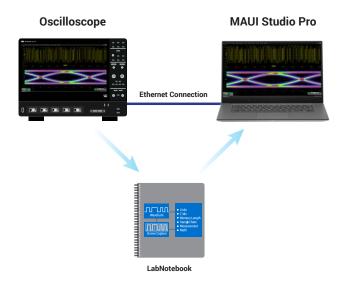
At only 6.7" deep and 25% thinner than competitive products, the HDO6000B is the sleekest instrument in the market.

Most bench space

The HDO6000B occupies less bench space than the competitive products, allowing you to spread out test circuits and probes to help focus on solving problems.

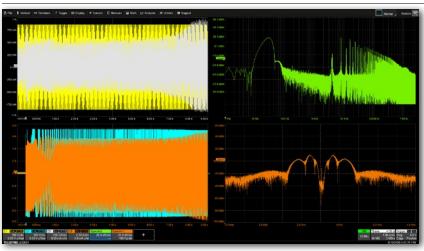
MORE CAPABILITY, INCREASED PRODUCTIVITY





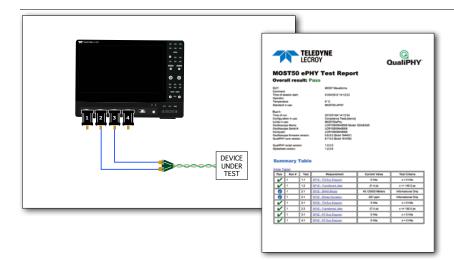
MAUI Studio

Unleash the power of a Teledyne LeCroy oscilloscope anywhere, using a PC with MAUI Studio. Work from anywhere while having the full functionality of an oscilloscope at your fingertips. Collaborate with ease by giving everyone access to the same software options to use for offline analysis.



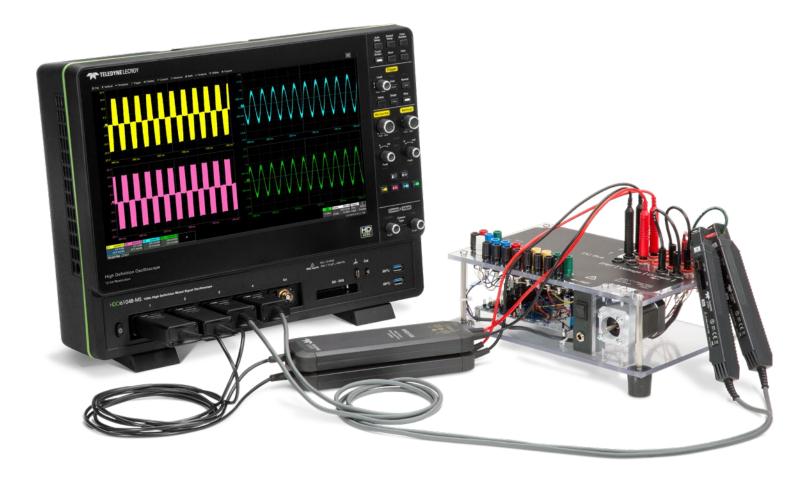
Spectrum Analysis

Spectrum-Pro-2R provides the most flexible spectral analysis with a logarithmic scale and drag-and-drop spectrum traces. Leverage long acquisition memory to perform analysis down to 1 Hz with resolution bandwidth up to 100 mHz.



QualiPHY Compliance Testing

The QualiPHY framework provides an automated and easy-to-use compliance testing platform for a number of serial data standards. QualiPHY reduces time and effort by guiding you through each setup and fully document all results.



HDO6000B 12-bit oscilloscopes deliver 4 analog channels, 3-phase power analysis software, and high performance probes for inverter subsection, power system and control testing.

Flexible Power Calculations

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.

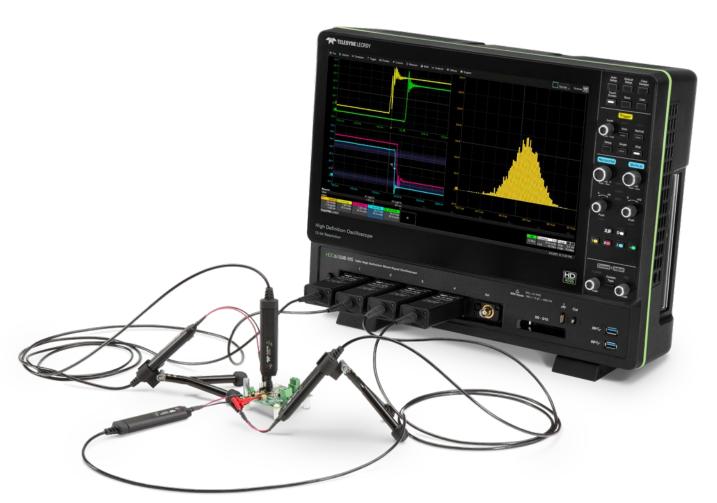
Comprehensive probing

HVD series high voltage differential probes have 65 dB CMRR at 1 MHz with upto 0.35% 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 and DL-HCM probes are ideal for gate drive probing.

Two-wattmeter Support

Both 1-phase and 3-phase measurements are supported. The two-wattmeter measurement method allows 3-phase power measurements to be made using two voltage and two current signals; therefore, 3-phase measurements can be made using 4 channels instead of 6.

Want 8 or 16 channels? The WaveRunner 8000HD has you covered. Learn more at www.teledynelecroy.com/wr8000hd



HDO6000B 12-bit oscilloscopes provide a wide range of probing solutions, compliance testing, and debug software to best address the specific test needs of the automotive industry.

Ideal probe for 48 V systems

The DL-HCM, 60 V Common Mode Differential Probes are the ideal probes for 48 V battery-powered motor and drive systems. When combined with HDO6000B 12-bit oscilloscopes, the DL10-HCM provides 1 GHz bandwidth with the highest accuracy, the best CMRR, and lowest noise.

Superior IVN tools

Unique capabilities that build on our legacy serial data trigger and decode provide the most complete in-vehicle networking (IVN) debug and validation. Cover all aspects of physical layer 10Base-T1S and 100Base-T1 Automotive Ethernet compliance testing and debug.

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.



HDO6000B 12-bit oscilloscopes' high resolution and long memory let you validate and debug all aspects of power supply, delivery and consumption – for complete confidence.

Accurate PDN measurements

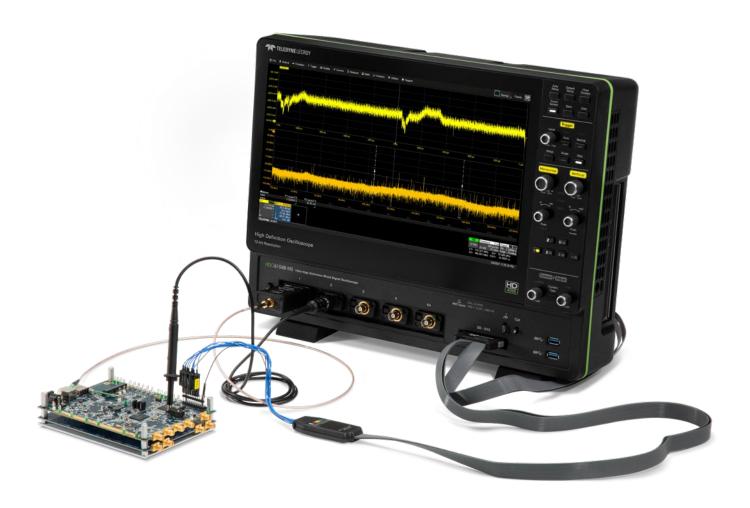
Make sensitive measurements like rail collapse characterization with total confidence thanks to HD06000B's high dynamic range and 0.5% gain accuracy. Its HD4096 architecture means an exceptionally low noise floor, for easily pinpointing noise sources.

Specialized power probes

Combine HD06000B with the RP4030 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.

Spectrum Analysis

Narrow in on interference causing problems in PDNs by enabling unique debug features such as spectral background removal on Spectrum-Pro-2R to eliminate spurious interference from environmental or other sources.



HDO6000B 12-bit oscilloscopes acquire long records at the highest resolution for the most comprehensive deeply embedded computing system analysis (analog, digital, serial data, and sensor).

Clock Analysis

Enable better analysis of clock sources by combining HDO6000B's all-instance measurements, to measure every clock edge, with the ability to capture long records and build statistics faster.

Then, trend values over time or build a statistical distribution.

Protocol Analysis

HD06000B uses powerful conditional DATA triggering to trigger on protocol elements or specific DATA patterns. Highly adaptable ERROR frame triggering helps isolate protocol errors while Search & Zoom helps correlate protocol events to embedded signals.

Power Management Tools

HD06000B supports decoding of I²C, SPMI, SMBus, and PMBus protocols to provide insight into dedicated power manangement serial protocols and speeding up test and debug of designs.





Key Attributes

- 1. 15.6" 1920 x 1080 capacitive touchscreen display
- 2. 4 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 250 Mpts of acquisition memory
- 7. HD4096 technology 12 bits all the time
- **8.** Buttons/indicators color-coded to associated waveform on display

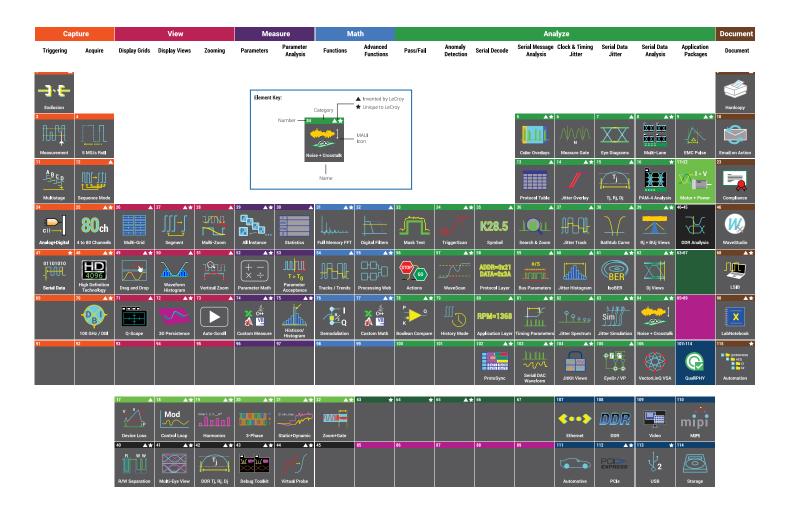
- **9.** Use cursors and adjust settings without opening a menu
- **10.** Mixed Signal capability with 16 integrated digital channels
- 11. 6 USB 3.1 ports (2 front, 4 side)
- **12.** HDMI and DisplayPort supports 4K (4096 x 2304) external monitor
- 13. Removable SSD (standard)
- **14**. Reference Clock Input/Output for connecting to other equipment
- **15.** USBTMC over USB 2.0 for data offload
- **16.** WaveSource Arbitrary Function Generator





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.

60 V Common Mode Differential Probes

DL05-HCM, DL10-HCM



The 60 V Common Mode Differential Probes are the ideal probes for lower voltage GaN power conversion measurement with the highest accuracy, best CMRR, and lowest noise.

ZS Series High Impedance Active Probes

ZS1000, ZS1500



High input impedance (1 M Ω), 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.

Differential Probes (200 MHz - 1.5 GHz)

ZD200, ZD500, ZD1000, ZD1500 AP033



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 solderin and U.FL receptacle connections.

High Voltage Fiber Optically isolated Probe

HVF0108



The HVF0108 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 35 kV common-mode. 140 dB CMRR.

HVD Series High Voltage Differential Probes

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



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 up to 0.35% gain accuracy. The ideal probe for power conversion system test.

High Voltage Passive Probes

HVP120, PPE4KV, PPE5KV, PPE6KV



The HVP and PPE series includes four fixed-attenuation probes covering a range from 1 kV to 6 kV. These probes are ideal for lightning/surge or EFT testing, or for probing in-circuit beyond the range of an LV-rated passive probe.

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. DCS015 deskew calibration source also available.

Probe and Current Sensor Adapters

TPA10, CA10



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



Vertical Analysi Channels	HD06034B	HDO6054B, HDO6054B-MS	HDO6104B, HDO6054B-MS	
Vertical - Analog Channels	050 MH	500 MI	1.011	
Analog Bandwidth @ 50 Ω (-3 dB)	350 MHz	500 MHz 500 MHz	1 GHz	
Analog Bandwidth @ 1 MΩ (-3 dB)	350 MHz	500 MHz		
Rise Time (10–90%, 50 Ω)	1 ns	700 ps	450 ps	
Rise Time (20–80%, 50 Ω) Input Channels	700 ps	500 ps	300 ps	
Vertical Resolution	12 bits; up to 15 bits with enhanced re	esolution (ERES)		
Effective Number of Bits (ENOB)	8.7 bits	8.6 bits	8.4 bits	
Vertical Noise Floor (rms, 50 Ω)				
1 mV/div	85 μV	100 μV	145 μV	
2 mV/div	85 μV	100 μV	145 µV	
5 mV/div	90 μV	105 μV	150 μV	
10 mV/div	95 μV	110 µV	155 μV	
20 mV/div	110 μV	130 μV	185 μV	
50 mV/div	210 μV	265 μV	275 μV	
100 mV/div	360 μV	450 μV	500 μV	
200 mV/div	1.10 mV	1.25 mV	1.75 mV	
500 mV/div	2.10 mV	2.60 mV	2.75 mV	
1 V/div	3.70 mV	4.50 mV	4.90 mV	
Sensitivity	50 Ω: 1 mV-1 V/div, fully variable; 1 M	Ω : 1 mV-10 V/div, fully variable		
DC Vertical Gain Accuracy (Gain Component of DC Accuracy)	±(0.5%) FS, offset at 0 V			
Channel-Channel Isolation	60 dB up to 200 MHz	60 dB up to 200 MHz	60 dB up to 200 MHz	
Charmer original toolation	50 dB up to 350 MHz	50 dB up to 500 MHz	50 dB up to 500 MHz	
Offset Range		50 Ω:	40 dB up to 1 GHz	
	1 n 10 n	1 mV to 19.8 mV: ±8 V, 20 mV to 1 V: ±10 1 MΩ: nV to 4.95 mV: ±1.6 V, 5 mV to 9.9 mV: ± nV to 19.8 mV: ±8 V, 20 mV to 100 mV: ± mV to 198 mV: ±80 V, 200 mV to 1 V: ±1 1.02 V to 10 V: ±400 V	.4 V :16 V	
DC Vertical Offset Accuracy	±(1.0% of offset setting + 0.5%FS + 0.02% of max offset + 1mV)			
Maximum Input Voltage	50 Ω: 5 Vrms, ± 10 V Peak	02% Of Illax Offset Fiffity		
Maximum input voltage	1 MΩ: 400 V max. (DC + Peak AC ≤ 10 kHz)			
Input Coupling	50 Ω: DC, GND; 1 MΩ: AC, DC, GND			
Input Impedance	$50 \Omega \pm 2.0\%$; $1 M\Omega \pm 2.0\%$ 15 pF			
Bandwidth Limiters	20 MHz, 200 MHz			
Rescaling		es: Mass: grams slugs: Temperature: Co	elsius Fahrenheit Kelvin:	
	Length: meters, inches, feet, yards, miles; Mass: grams, slugs; Temperature: Celsius, Fahrenheit, Kelvin; Angle: radian, arcdegr, arcmin, arcsec, cycles, revolutions, turns; Velocity: m/s, in/s, ft/s, yd/s, miles/s; Acceleration: m/s2, in/s2, ft/s2, g0; Volume: liters, cubic meters, cubic inches, cubic feet, cubic yards; Force (Weight): Newton, grain, ounce, pound; Pressure: Pascal, bar, atmosphere (technical), atmosphere (standard), torr, psi; Electrical: Volts, Amps, Watts, Volt-Amperes, Volt-Amperes reactive, Farad, Coulomb, Ohm, Siemen, Volt/meter, Coulomb/m2, Farad/meter, Siemen/meter, power factor; Magnetic: Weber, Tesla, Henry, Amp/meter, Henry/meter; Energy: Joule, BTU, calorie; Rotating Machine: radian/second, frequency, revolution/second, revolution/minute, N·m, lb-ft, lb-in, oz-in, Watt, horsepower; Other: %			
Horizontal - Analog Channels				
Timebases	Internal timebase common to 4 input	channels		
Time/Division Range	20 ps/div - 5 ks/div with standard mer	mory (up to 10 ks/div with -L memory, 2		
Clock Accuracy	±2.5 ppm + 1.0ppm/year from calibrat	e available at ≥ 100 ms/div and ≤ 5 MS/	<u> </u>	
Sample Clock Jitter	Up to 10 ms acquired time range: 280			
Delta Time Measurement Accuracy	Op to 10 ms acquired time range. 280	<u> </u>		
Delta Time Measurement Accuracy	$\sqrt{2} * \sqrt{\left(\frac{\text{Noise}}{\text{SlewRate}}\right)^2} + \text{(Sample Clock Jit)}$	ter) ² (RMS) + (clock accuracy * reading) (secon	ds)	
Jitter Measurement Floor	$\sqrt{\left(\frac{\textit{Noise}}{\textit{SlewRate}}\right)^2 + \textit{(Sample Clock Jit)}}$	ter) ² (RMS, seconds, TIE)		
Jitter Between Channels		petween any two channels num) between any analog and any digita	al channel	
Channel-Channel Deskew Range	±9 x time/div. setting, 100 ms max., ea			
External Timebase Reference (Input)	10 MHz ±25 ppm at 0 to 10 dBm into	50 Ohms		
External Timebase Reference (Output)	10 MHz, 2.0 dBm ±1.5 dBm, sinewave	synchronized to reference being used (internal or external reference)	



	HD06034B	HDO6054B,	HD06104B,		
		HD06054B-MS	HD06054B-MS		
Acquisition - Analog Channels					
Sample Rate (Single-Shot)	10 GS/s on all 4 Channels with Enhanc	ced Sample Rate			
Sample Rate (Repetitive)	125 GS/s, user selectable for repetitive	e signals (20 ps/div to 10 ns/div)			
Memory Length		Standard:			
(Number of Segments in Sequence	50 Mpts/ch for all channels (30,000 segments)				
Acquisition Mode)	7.00	Option - L:			
	1001	Mpts/ch for all channels (60,000 segme	ents)		
	2501	Option -XL: Mpts/ch for all channels (65,000 segme	onto)		
Intersegment Time	1.25 µs	vipts/cirror all charmers (05,000 segrite	ents)		
Averaging	Summed averaging to 1 million sweep:	s: continuous averaging to 1 million sw	leens		
Interpolation	Linear or Sin x/x (2 pt and 4 pt);	o, continuous averaging to 1 million sw	леерь		
merpolation	5 or 10 GS/s Enhanced Sample Rate d	efaults to 2 pt or 4 pt Sin x/x respective	elv		
	0 0. 10 00,0 2aoca 0ap.oa.c a				
Vertical, Horizontal, Acquisition -	- Digital Channels (-MS Models only	y)			
Maximum Input Frequency	250 MHz				
Minimum Detectable Pulse Width	1 ns				
Input Dynamic Range	±20 V				
Input Impedance (Flying Leads)	100 kΩ 5 pF				
Input Channels	16 Digital Channels				
Maximum Input Voltage	±30V Peak				
Minimum Input Voltage Swing	400 mV				
Threshold Groupings	Pod 2: D15 to D8, Pod 1: D7 to D0				
Threshold Selections	TTL, ECL, CMOS (2.5 V, 3.3 V, 5 V), PEC	L, LVDS or User Defined			
Threshold Accuracy	±(3% of threshold setting + 100 mV)				
User Defined Threshold Range	±10 V in 20 mV steps				
User Defined Hysteresis Range	100 mV to 1.4 V in 100 mV steps				
Sample Rate	1.25 GS/s				
Record Length	Standard: 50 MS				
	Optional -L: 100 MS				
	Optional -XL: 125 MS				
Channel-to-Channel Skew	350 ps				
Trianguia o Octobra					
Triggering System					
Modes	Normal, Auto, Single, and Stop				
Sources	Any input channel, Ext, Ext/10, or Line;	slope and level unique to each source (except Line)		
Coupling	DC, AC, HFRej, LFRej				
Pre-trigger Delay	0-100% of memory size				
Post-trigger Delay	0-10,000 Divisions in real time mode, limited at slower time/div settings or in roll mode				
Hold-off	From 2 ns up to 20 s or from 1 to 99,99	99,999 events	0.5 (4		
Trigger and Interpolator Jitter	≤ 4.0 ps rms (typical) <0.1 ps rms (typical, software	≤ 3.5 ps rms (typical) <0.1 ps rms (typical, software	≤ 3.5 ps rms (typical) <0.1 ps rms (typical, software		
	assisted)	assisted)	assisted)		
Internal Trigger Level Range	±4.1 div from center (typical)	5.55.615.5	3.00.000		
External Trigger Level Range	Ext (±400 mV); Ext/10 (±4 V)				
Maximum Trigger Rate	800,000 waveforms/sec (in Sequence	Mode. up to 4 channels)			
Trigger Sensitivity with Edge Trigger	0.9 division @ < 10 MHz	0.9 division @ < 10 MHz	0.9 division @ < 10 MHz		
(Ch 1-4)	1.0 divisions @ < 200 MHz	1.0 divisions @ < 200 MHz	1.0 divisions @ < 200 MHz		
	2.0 divisions @ < 350 MHz	1.5 divisions @ < 250 MHz	1.5 divisions @ < 500 MHz		
		2.0 divisions @ < 500 MHz	2.0 divisions @ < 1 GHz		
External Trigger Sensitivity,	0.9 division @ < 10 MHz	0.9 division @ < 10 MHz	0.9 division @ < 10 MHz		
Edge Trigger	1.0 divisions @ < 200 MHz	1.0 divisions @ < 200 MHz	1.0 divisions @ < 200 MHz		
	2.0 divisions @ < 350 MHz	1.5 divisions @ < 250 MHz	1.5 divisions @ < 500 MHz		
	050 1 111	2.0 divisions @ < 500 MHz	2.0 divisions @ < 1 GHz		
Max. Trigger Frequency,	350 MHz	500 MHz	1 GHz		
SMART Trigger					



	HD06034B	HDO6054B, HDO6054B-MS	HDO6104B, HDO6054B-MS
Trigger Types			
Edge Width	Triggers when signal meets slope (po Triggers on positive or negative glitch Minimum width: 1.5 ns, maximum wi	es with selectable widths.	ondition.
Glitch	Triggers on positive or negative glitch Minimum width: 1.5 ns, maximum wid	es with selectable widths.	
Window	Triggers when signal exits a window		
Pattern	Logic combination (AND, NAND, OR, N be high, low, or don't care. The high ar pattern.	IOR) of 5 inputs (4 channels and exter	rnal trigger input). Each source can ently. Triggers at start or end of
Runt	Trigger on positive or negative runts def		
Slew Rate	Trigger on edge rates. Select limits fo		between 1 ns and 20 ns.
Interval	Triggers on intervals selectable between		100
Dropout	Triggers if signal drops out for longer		
Measurement	Select from a large number of measu limits.		
Multi-stage: Qualified	Triggers on any input source only if a sources is selectable by time or event	<u>ts (Note: event B pattern trigger cann</u>	ot include analog channels).
Multi-stage: Qualified First	In Sequence acquisition mode, trigge satisfied in the first segment of the acevent B pattern trigger cannot include	equisition. Holdoff between sources is	ned pattern, state or edge (event A) is s selectable by time or events (Note:
Multi-Stage: Cascade (Sequence) Trigger, Capability	Arm on "A" event, then Trigger on "B" e	event. Or Arm on "A" event, then Quali	fy on "B" event, and Trigger on "C"
Multi-Stage: Cascade (Sequence)	Cascade A then B: Edge, Window, Pat	tern (Logic) Width, Glitch, Interval, Dro	opout, or Measurement.
Trigger, Types	Measurement can be on Stage B only Width, Glitch, Interval, Dropout, or Me C: Edge, Window, Pattern (Logic)		
Multi-Stage: Cascade (Sequence)	Holdoff between A and B or B and C is		
Trigger, Holdoff	as the last stage in a Cascade preclud	des a holdoff setting between the pric	or stage and the last stage.
Low Speed Serial Protocol Triggerin	og (Optional)		
Measurement Tools Measurement Functionality	Display up to 8 measurement parame	store together with statistics including	g maan minimum mavimum
measurement runctionality	standard deviation, and total number. statistics table. Histicons provide a f. Parameter math allows addition, subf gates define the location for measure values based on range setting or wav	Each occurrence of each parameter ast, dynamic view of parameters and traction, multiplication, or division of tement on the source waveform. Parar eform state.	is measured and added to the waveshape characteristics. two different parameters. Parameter meter accept criteria define allowable
Measurement Parameters - Horizontal and Jitter	Cycles (number of), Delay (from trigge level), Fall Time (90-10, @levels), Fred Jitter (peakpeak), Number of Points, F @levels), Setup (@levels), Skew (@lev Time (@level), Width (50%, @level), Δ	/els). Slew Rate (@levels). Time Interv	/al Error (@level). Time (@level). Δ
Measurement Parameters - Vertical Measurement Parameters - Pulse	Amplitude, Base, Level@X, Maximum Area, Base, Fall Time (90-10, 80-20, @ Top, Width (50%)		
Measurement Parameters - Statistical (on Histograms)	Full Width (@HalfMax, @%), Amplitud Mode, Range, RMS, Std. Deviation, To	le, Base, Peak@MaxPopulation, Maxir p, X(value)@Peak, Peaks (number of	mum, Mean, Median, Minimum, I, Percentile, Population (@bin, total)
Math Tools			
Math Functionality	Display up to 8 math functions traces operations on each function trace, an	s (F1-F8). The easy-to-use graphical in	nterface simplifies setup of up to two
Math Operators - Basic Math	Average (summed), Average (continue Reciprocal, Rescale (with units), Roof	ous), Difference (–), Envelope, Floor, I	
Math Operators - Digital (incl. with -MS Models)	Digital AND, Digital DFlipFlop, Digital N		l OR, Digital XOR
Math Operators - Filters	Enhanced Resolution (ERes) to 15 bit	s vertical. Interpolate (cubic, quadrati	c. sinx/x)
Math Operators - Frequency Analysis	FFT (power spectrum, magnitude, ph memory length. Select from Rectange		
Math Operators - Functions	Absolute value, Correlation (two wave Integral, Invert (negate), Log (base e), Zoom (identity)	eforms), Derivative, Deskew (resample	e), Exp (base e), Exp (base 10),
Math Operators - Other	Segment, Sparse		
Measurement and Math Integration	l		
	Histogram of statistical distributions measurements. Track (measuremen histogram and persistence trace (me	t vs. time, time-correlated to acquisiti	nd (datalog) of up to 1 million ons) of any parameter. Persistence



HD06034B	HD06054B,	
	HD06054R-M9	

HD06104B, HD06054B-MS

Pass	/Fail	Testina

Display up to 8 Pass/Fail queries using a Single or Dual Parameter Comparison (compare All values, or Any value <, \le , =, >, \ge , within limit $\pm\Delta$ value or %) or Mask Test (pre-defined or user-defined mask, waveform All In, All Out, Any In, or Any Out conditions). Combine queries into a boolean expression to Pass or Fail IF "All True", "All False", "Any True", "Any False", or groups of "All" or "Any", with following THEN Save (waveforms), Stop (test), (sound) Alarm, (send) Pulse, (save) LabNotebook or other User(-defined) Action.

Display System

Size	Color 15.6" widescreen capacitive touch screen
Resolution	Full HD (1920 x 1080 pixels)
Number of Traces	Display a maximum of 16 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

Waveform Representation Sample dots joined, or sample dots

Processor/CPU

Туре	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

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 2.0 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

Voltage	100-240 VAC (±10%) at 50/60/400 Hz (±5%)
Nominal Power Consumption	220 W / 220 VA
Max Power Consumption	320 W / 320 VA

Environmental

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
Cine and Mainlet	

Size and Weight

Dimensions (HWD)	13.8" H x 17.5" W x 6.7" D (352 mm x 445 mm x 170 mm)
Weight	21 lbs (9.8 kg)

Certifications

CE Certification CE compliant, UL and cUL listed; conforms to UL 61010-1 (3rd Edition), UL 61010-2-030 (1st Edition) UL and cUL Listing 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.

WaveSource Arbitrary Waveform Generator (all models)

General Max Frequency 25 MHz Sample Rate 125 MS/s Arbitrary Waveform Length 16 kpts Output Amplitude 4 mVpp - 6 Vpp (HiZ); 2 mVpp - 3 Vpp (50 Ω) Waveform Types Sine, Square, Pulse, Triangle, DC, Noise, Arbitrary Waveform

Freq	uency	Spec	ifica	tior

	•
Sine	1 μHz - 25 MHz
Square/Pulse	1 μHz - 10 MHz
Triangular	1 μHz - 300 KHz
DC Output	±3 V (HiZ); ±1.5 V (50 Ω)
Noise	25 MHz (-3 dB)
Arbitrary Waveform	1 uHz - 3 MHz

ORDERING INFORMATION



Product Description Product Code			
PPM Decode		Product Code	•
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## Dispasser Trigger Decode HDO6K-SpaceWirebus Description HDO6K-Spacewirebu			
### HDOK-SpaceWirebus D ### SpaceWire Decode			
First Nersion , Microsoft Windows® 10, Removable Solid State Drive, Commercial NIST Traceable Calibration with Certificate, Power Cable for the Destination Country, Protective Front Cover, 3-year Warranty			
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Destination Country, Protective Front Cover, 3-year Warranty Included with HD06000B-MS T6 Channel Digital teadest, Extra Large Gripper Probe Set (Qty. 22), Ground Extenders (Qty. 20), Flexible Ground Leads (Qty. 5) Memory Options 100 Mpts/ch memory Option HD06KB-L 250 Mpts/ch Memory Option HD06KB-SSD-02 Additional Removable Solid State Drive HD06K-MSB2B-SD-02 Additional Removable Solid State Drive HD06K-MSB2B-SD-02 Additional Removable Solid State Drive HD06K-MSB2B-SD-02 MIL-STD-155S Trigger, Decode HD06K-108Base-T1bus TDM MIL-STD-155S Trigger, Decode Measure/Graph, and Eye Diagram MIL-STD-155S Trigger & Decode Measure/Graph, HD06K-NSB2BUS DME SYMBOLIC Audiobus Tip Gapta May Developed HD06K-Markinobus TD GAN FD Trigger and Decode HD06K-ANINC429BUS DME SYMBOLIC Audiobus Tigger and Decode HD06K-ANINC429BUS DME SYMBOLIC CAN FD Trigger and Decode HD06K-CAN FDBUS TDME and Eye Diagram ARINC 429 Bus Symbolic Decode HD06K-ANINC429BUS DME SYMBOLIC CAN FD Trigger and Decode HD06K-ANINC429BUS DME SYMBOLIC CAN FD Trigger A Decode, Measure/Graph, and Eye Diagram ARINC 429 Bus Symbolic Decode HD06K-ANINC429BUS DME SYMBOLIC CAN FD Trigger A Decode, Measure/Graph, and Eye Diagram ARINC 429 Bus Symbolic Decode HD06K-ANINC429BUS DME SYMBOLIC CAN FD Trigger A Decode, Measure/Graph, and Eye Diagram ARINC 429 Bus Symbolic Decode HD06K-CAN FDBUS TDME And Eye Diagram ARINC 429 Bus Symbolic Decode HD06K-ANINC429BUS DME SYMBOLIC CAN FD Trigger A Decode, Measure/Graph, and Eye Diagram ARINC 429 Bus Symbolic Decode HD06K-CAN FDBUS TDME SYMBOLIC CAN FD Trigger A Decode, Measure/Graph, and Eye Diagram ARINC 429 Bus Symbolic Decode HD06K-CAN FDBUS TDME SYMBOLIC CAN FD Trigger A Decode, Measure/Graph, and Eye Diagram ARINC 429 Bus Symbolic Decode HD06K-CAN FDBUS TDME SYMBOLIC CAN FD Trigger A Decode, Measure/Graph, and E			
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Toolbase-T1 Trigger, Decode	Serial Trigger and Decode Options		ivieasure/Graph, and Eye Diagram
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ORDERING INFORMATION

	duct Code
Digital Filtering Options	
DFP2 Digital Filter Option	HD06K-DFP2
Other Software Options	
Spectrum Analysis Option (1 Trace) HD06K-S	SPECTRUM-1
Spectrum Analysis Option (2 Traces + Reference) HD06K-SPECTR	RUM-PRO-2R
Advanced Customization Option F	IDO6K-XDEV
EMC Pulse Parameter Software Package	HD06K-EMC
Remote Control/Network Options	
External GPIB Accessory	USB2-GPIB
General Accessories	
	CARRYCASE
	ACKMOUNT
Probes	
500 MHz Passive Probe, 2.5mm, 10:1, 10 MΩ	PP023-1
500 MHz Passive Probe, 5mm, 10:1, 10 MΩ	PP026-1
High Voltage Fiber Optic Probe, 150 MHz	HVF0108
TekProbe to ProBus Probe Adapter	TPA10
Power/Voltage Rail Probe. 4 GHz bandwidth,	RP4030
1.2x attenuation, ±30V offset, ±800mV	
1 GHz, 0.9 pF, 1 MΩ High Impedance Active Probe	ZS1000
1.5 GHz, 0.9 pF, 1 MΩ High Impedance Active Probe	ZS1500
30 A; 50 MHz Current Probe – AC/DC; 30 A _{rms} ; 50 A _{peak} Pulse	CP030
30 A, 10 MHz Current Probe - AC/DC, 30 A rms, 50 A Peak Pulse, 3 meter cable	CP030-3M
30A, 50 MHz High Sensitivity Current Probe - AC/DC, 30 A _{rms} , 50 A _{peak} Pulse, 1.5 meter cable	CP030A
30 A; 100 MHz Current Probe – AC/DC; 30 A _{rms} ; 50 A _{peak} Pulse	CP031
30A, 100 MHz High Sensitivity Current Probe - AC/DC, 30 A _{rms} , 50 A _{peak} Pulse, 1.5 meter cable	CP031A

Product Description	Product Code
Probes (cont'd)	
150 A; 10 MHz Current Probe – AC/DC; 150 A _{rms} ; 500 A _{peak} Pulse	CP150
150 A, 5 MHz Current Probe - AC/DC, 150 A rms, 500 A Peal Pulse, 6 meter cable	k CP150-6M
500 A; 2 MHz Current Probe – AC/DC; 500 A _{rms} ; 700 A _{peak} F	Pulse CP500
Deskew Calibration Source	DCS025
Programmable Current Sensor to ProBus Adapter	CA10
(for third-party current sensors)	
500 MHz, Active Differential Probe (÷1, ÷10, ÷100)	AP033
500 MHz 60 V Common Mode Differential Probe	DL05-HCM
1 GHz 60 V Common Mode Differential Probe	DL10-HCM
200 MHz, 3.5 pF, 1 MΩ Active Differential Probe, ±20 V	ZD200
500 MHz, 1.0 pF Active Differential Probe, ±8 V	ZD500
1 GHz, 1.0 pF, 1 MΩ Active Differential Probe, ±8 V	ZD1000
1.5 GHz, 1.0 pF Active Differential Probe, ±8 V	ZD1500
1,500 V, 25 MHz High-Voltage Differential Probe	HVD3102A
1kV, 25 MHz High Voltage Differential Probe without H tip Accessories)	VD3102A-NOACC
1,500 V, 120 MHz High-Voltage Differential Probe	HVD3106A
1kV, 120 MHz High Voltage Differential Probe without High Accessories	VD3106A-NOACC
1kV, 80 MHz High Voltage Differential Probe with 6m cable	HVD3106A-6M
2kV, 120 MHz High Voltage Differential Probe	HVD3206A
2kV, 80 MHz High Voltage Differential Probe with 6m cable	HVD3206A-6M
6kV, 100 MHz High Voltage Differential Probe	HVD3605A
700 V, 25 MHz High Voltage Differential Probe (÷10, ÷100)	AP031
400 MHz, 1kV Vrms High-Voltage Passive Probe	HVP120
100:1 400 MHz 50 MΩ 4 kV High-voltage Probe	PPE4KV
1000:1 400 MHz 50 MΩ 5 kV High-voltage Probe	PPE5KV
1000:1 400 MHz 50 M Ω 6 kV High-voltage Probe	PPE6KV

Customer Service

Teledyne LeCroy oscilloscopes and probes are designed, built, and tested to ensure high reliability. In the unlikely event you experience difficulties, our digital oscilloscopes are fully warranted for three years and our probes are warranted for one year.

This warranty includes:

- No charge for return shipping
- Long-term 7-year support
- Upgrade to latest software at no charge



1-800-5-LeCroy teledynelecroy.com

Local sales offices are located throughout the world. Visit our website to find the most convenient location.