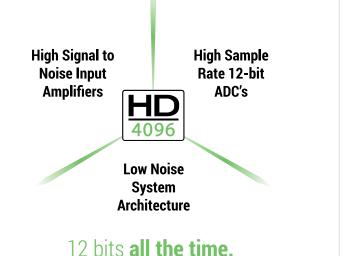


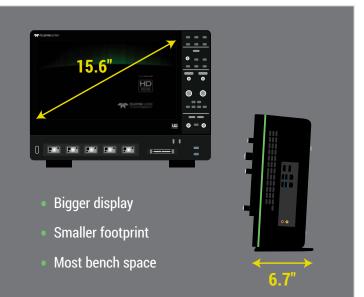
CAPTURE EVERY DETAIL



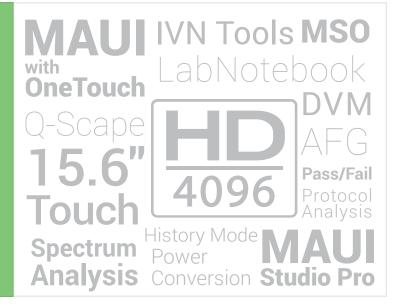
Highest Resolution



Bigger Display



More Capability

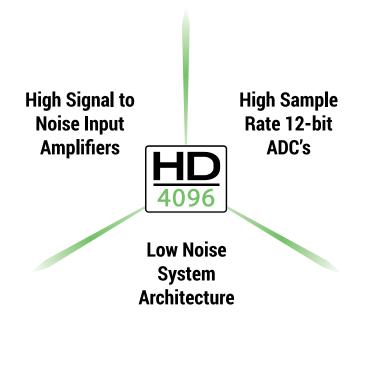




Providing **12 bits all the time**, a **bigger display**, **smaller footprint**, and **more capability**, the **HD06000B captures every detail**.

12 bits all the time.

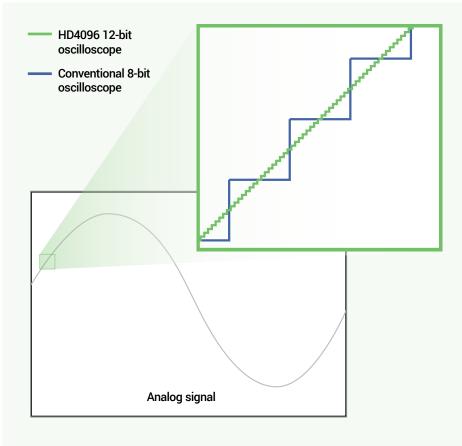




Teledyne LeCroy high definition 12-bit oscilloscopes use unique HD4096 technology to provide superior and uncompromised measurement performance:

- 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

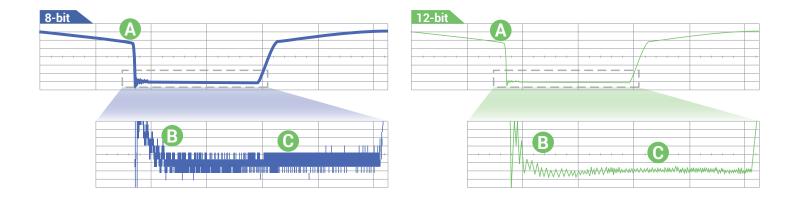
When compared to waveforms acquired and displayed using conventional 8-bit oscilloscopes, waveforms captured with HD4096 12-bit technology are dramatically crisper and cleaner, and are displayed more accurately. Once you see a waveform acquired with HD4096 technology, you will not want to go back to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



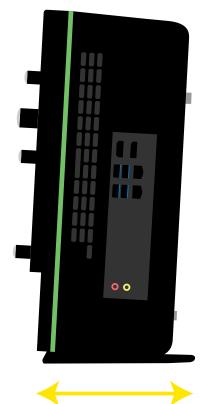
Clean, crisp waveforms | Thin traces show the actual waveform with minimal noise interference.

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





6.7"

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

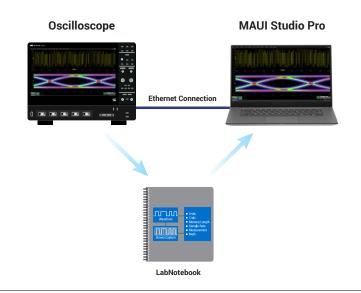
At only 6.7" deep and 25% thinner than competitive products, the HDO6000B is the sleekest instrument in the market.

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.

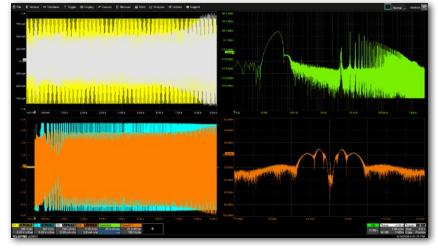
MORE CAPABILITY, INCREASED PRODUCTIVITY





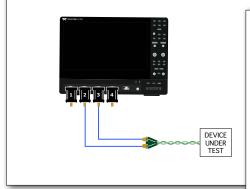
MAUI Studio

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

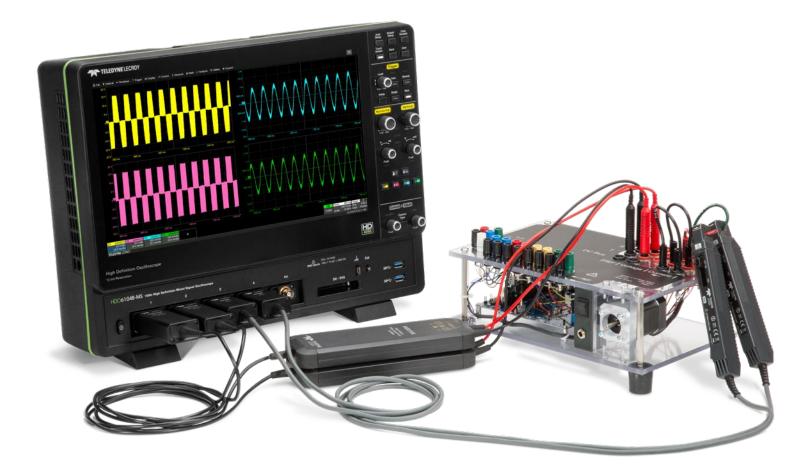
Spectrum-Pro-2R provides the most flexible spectral analysis with a logarithmic scale and drag-and-drop spectrum traces. Leverage long acquisition memory to perform analysis down to 1 Hz with resolution bandwidth up to 100 mHz.





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

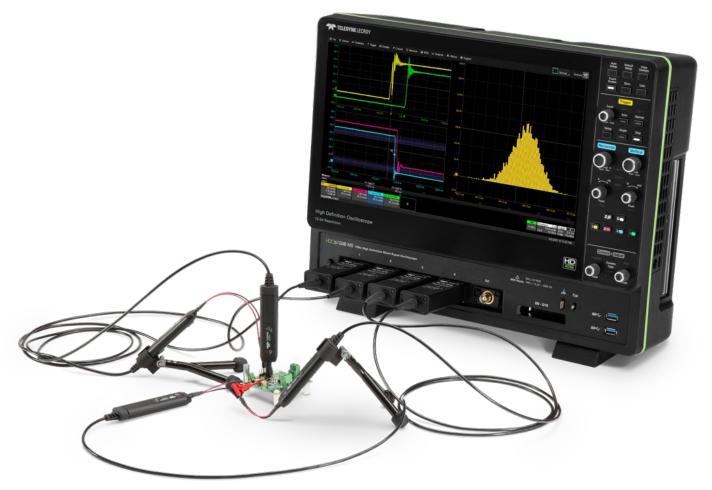
HVD series high voltage differential probes have 65 dB CMRR at 1 MHz with upto 0.35% gain accuracy, the widest voltage ranges, and up to 6 kV commonmode rating. Connect current probes or use your own transducers with the programmable CA10 current sensor adapter to create a customized "probe". HVFO and 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

AUTOMOTIVE ELECTRONICS



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 HD06000B 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

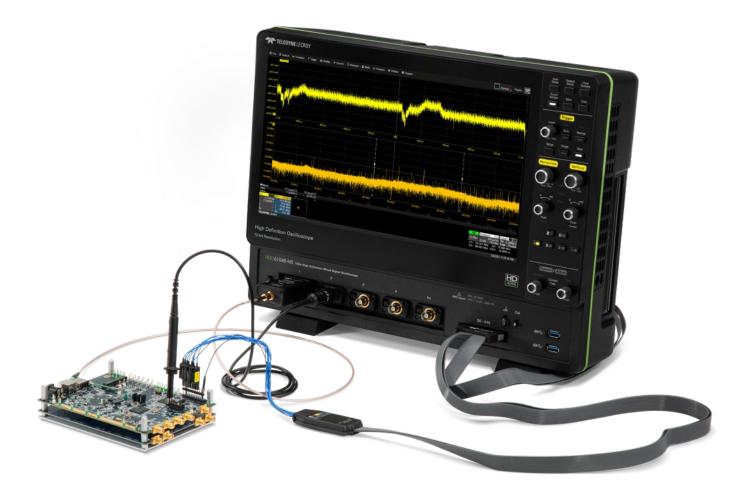
Make sensitive measurements like rail collapse characterization with total confidence thanks to HD06000B's high dynamic range and 0.5% gain accuracy. Its HD4096 architecture means an exceptionally low noise floor, for easily pinpointing noise sources.

Specialized power probes

Combine HDO6000B 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

HDO6000B 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.

HD06000B OSCILLOSCOPES AT A GLANCE





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

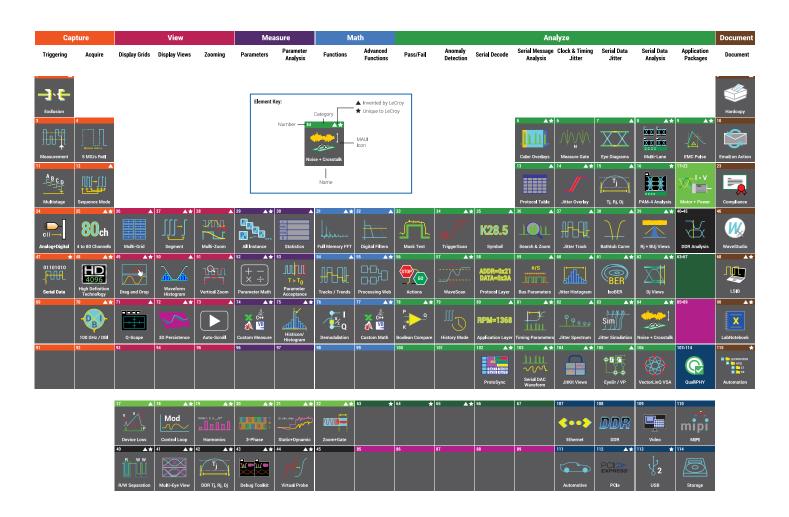




- 9. Use cursors and adjust settings without opening a menu
- **10.** Mixed Signal capability with 16 integrated digital channels
- 11. 6 USB 3.1 ports (2 front, 4 side)
- **12.** HDMI and DisplayPort supports 4K (4096 x 2304) external monitor
- 13. Removable SSD (standard)
- 14. Reference Clock Input/Output 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

PROBES



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

60 V Common Mode Differential Probes	The ideal probes for lower voltage GaN power conversion measurement with the highest accuracy, best CMRR, and
DL02-HCM, DL05-HCM, DL10-HCM	lowest noise. Up to 1 GHz.
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)	Wide dynamic range, low loading and excellent noise performance. From 200 MHz to 1.5 GHz. Specialty AP033 provideo 10x gain and high CMPR
ZD200, ZD500, ZD1000, ZD1500	provides 10x gain and high CMRR.
Active Voltage/Power Rail Probe	2 to 4 GHz bandwidth, ±60 V offset, ±800 mV dynamic range. High DC input impedance and low noise/attenuation for power
RP2060, RP4060	rail probing.
High Voltage Optically Isolated Probes	Up to 1 GHz. Ideal for GaN and SiC devices. Highest accuracy, most bandwidth, wide range of voltages, optical isolation.
DL03-ISO, DL07-ISO, DL10-ISO, HVF0108	S°
HVD Series High vVoltage Differential Probes	1 kV, 2 kV and 6 kV CAT safety rated models. Widest differential voltage ranges, exceptional CMRR, low noise, 1% gain accuracy
HVD3102A, HVD3106A (1 kV) HVD3206A, HVD3220 (2 kV) HVD3605A (6 kV)	
High Voltage Passive Probes	1 kV to 6 kV ratings. Provide ground-referenced high voltage measurements in a wide range of applications.
HVP120, РРЕ6КV-А	
Current Probes	For AC, DC, and impulse current measurements. Utilizes
CP030B, CP030-3M, CP031, CP031A CP150B, CP150-6M CP500, DCS025	combination of Hall effect and transformer technology. Up to 500A, up to 100 MHz.
Probe and Current Sensor Adapters	Change between the different Teledyne LeCroy Oscilloscope input types or provide simple interface to 3rd-party probes.
TPA10, CA10	



Vertical Resolution 1 Effective Number of Bits (ENOB) Vertical Noise Floor (rms, 50 Ω) 1 mV/div 2 mV/div 3 mV/div 10 mV/div 20 mV/div 10 mV/div 20 mV/div 20 mV/div 200 mV/div Sensitivity 5 DC Vertical Gain Accuracy ± (Gain Component of DC Accuracy) ± Channel-Channel Isolation	350 MHz 350 MHz 1 ns 700 ps 4 12 bits; up to 15 bits with enhanced re 8.7 bits 85 μV 90 μV 90 μV 95 μV 110 μV 210 μV 210 μV 360 μV 1.10 mV 2.10 mV 3.70 mV 50 Ω: 1 mV-1 V/div, fully variable; 1 M	8.6 bits 100 μV 100 μV 105 μV 110 μV 130 μV 265 μV 450 μV 1.25 mV 2.60 mV	1 GHz 500 MHz 450 ps 300 ps 8.4 bits 145 μV 145 μV 150 μV 155 μV 185 μV 275 μV 500 μV	
Analog Bandwidth @ 1 MΩ (-3 dB) Rise Time (10–90%, 50 Ω) Rise Time (20–80%, 50 Ω) Input Channels Vertical Resolution 1 Effective Number of Bits (ENOB) Vertical Noise Floor (rms, 50 Ω) 1 mV/div 2 mV/div 5 0 10 mV/div 20 mV/div 20 mV/div 20 mV/div 200 mV/div 200 mV/div 200 mV/div 200 mV/div 200 mV/div 200 More the model of DC Accuracy ± (Gain Component of DC Accuracy) Channel-Channel Isolation Offset Range DC Vertical Offset Accuracy ± Maximum Input Voltage	350 MHz 1 ns 700 ps 4 12 bits; up to 15 bits with enhanced re 8.7 bits 85 μV 90 μV 90 μV 95 μV 110 μV 210 μV 360 μV 1.10 mV 2.10 mV 3.70 mV 3.70 mV 3.70 mV	500 MHz 700 ps 500 ps esolution (ERES) 8.6 bits 100 μV 100 μV 105 μV 110 μV 130 μV 265 μV 450 μV 1.25 mV 2.60 mV	500 MHz 450 ps 300 ps 8.4 bits 145 μV 145 μV 150 μV 155 μV 185 μV 275 μV	
Rise Time (10-90%, 50 Ω) Rise Time (20-80%, 50 Ω) Input Channels Vertical Resolution 1 Effective Number of Bits (ENOB) Vertical Noise Floor (rms, 50 Ω) 1 mV/div 2 mV/div 5 mV/div 2 0 mV/div 2 0 mV/div 20 mV/div 200 MV/div Sensitivity Sensitivity Channel-Channel Isolation Offset Range DC Vertical Offset Accuracy # Maximum Input Voltage	1 ns 700 ps 4 12 bits; up to 15 bits with enhanced re 8.7 bits 85 μV 85 μV 90 μV 95 μV 110 μV 210 μV 360 μV 1.10 mV 2.10 mV 3.70 mV 3.70 mV 50 Ω: 1 mV–1 V/div, fully variable; 1 M	700 ps 500 ps esolution (ERES) 8.6 bits 100 μV 100 μV 105 μV 110 μV 130 μV 265 μV 450 μV 1.25 mV 2.60 mV	450 ps 300 ps 8.4 bits 145 μV 145 μV 150 μV 155 μV 185 μV 275 μV	
Rise Time (20-80%, 50 Ω) Input Channels Vertical Resolution IEffective Number of Bits (ENOB) Vertical Noise Floor (rms, 50 Ω) 1 mV/div 2 mV/div 5 mV/div 10 mV/div 20 mV/div 50 mV/div 10 mV/div 20 mV/div 50 mV/div 10 mV/div 200 mV/div 500 mV/div 10 Vertical Gain Accuracy 4 Channel-Channel Isolation Offset Range DC Vertical Offset Accuracy 4 Maximum Input Voltage	700 ps 4 12 bits; up to 15 bits with enhanced re 8.7 bits 85 μV 90 μV 95 μV 110 μV 210 μV 360 μV 1.10 mV 2.10 mV 3.70 mV 3.70 mV	500 ps esolution (ERES) 8.6 bits 100 μV 100 μV 105 μV 110 μV 130 μV 265 μV 450 μV 1.25 mV 2.60 mV	300 ps 8.4 bits 145 µV 145 µV 150 µV 155 µV 185 µV 275 µV	
Input Channels 4 Vertical Resolution 1 Effective Number of Bits (ENOB) 1 Vertical Noise Floor (rms, 50 Ω) 1 1 mV/div 2 mV/div 3 mV/div 2 mV/div 3 mV/div 10 mV/div 20 mV/div 3 0 10 mV/div 20 mV/div 3 0 10 mV/div 20 mV/div 3 0 10 mV/div 20 mV/div 20 mV/div 3 0 Sensitivity 5 DC Vertical Gain Accuracy ± (Gain Component of DC Accuracy) Channel-Channel Isolation Offset Range 0 DC Vertical Offset Accuracy ± Maximum Input Voltage 5	4 12 bits; up to 15 bits with enhanced re 8.7 bits 85 μV 90 μV 90 μV 95 μV 110 μV 210 μV 360 μV 1.10 mV 2.10 mV 3.70 mV 3.70 mV	esolution (ERES) 8.6 bits 100 μV 100 μV 105 μV 110 μV 130 μV 265 μV 450 μV 1.25 mV 2.60 mV	8.4 bits 145 μV 145 μV 150 μV 155 μV 185 μV 275 μV	
Vertical Resolution 1 Effective Number of Bits (ENOB) Vertical Noise Floor (rms, 50 Ω) 1 mV/div 2 mV/div 10 mV/div 20 mV/div 100 mV/div 200 mV/div 200 mV/div 100 mV/div 200 mV/div 200 mV/div 200 mV/div 200 mV/div 200 mV/div Sensitivity 5 DC Vertical Gain Accuracy ± (Gain Component of DC Accuracy) ± Channel-Channel Isolation	12 bits; up to 15 bits with enhanced re 8.7 bits 85 μV 90 μV 95 μV 110 μV 210 μV 360 μV 1.10 mV 2.10 mV 3.70 mV 3.70 mV 50 Ω: 1 mV-1 V/div, fully variable; 1 M	8.6 bits 100 μV 100 μV 105 μV 110 μV 130 μV 265 μV 450 μV 1.25 mV 2.60 mV	145 μV 145 μV 150 μV 155 μV 185 μV 275 μV	
Effective Number of Bits (ENOB) Vertical Noise Floor (rms, 50 Ω) 1 mV/div 2 mV/div 5 mV/div 10 mV/div 20 mV/div 50 mV/div 100 mV/div 200 mV/div 200 mV/div 200 mV/div 200 mV/div 200 mV/div 200 mV/div 500 mV/div 0 mV/div Channel-Channel Isolation Offset Range DC Vertical Offset Accuracy 4 Maximum Input Voltage	8.7 bits 85 μV 85 μV 90 μV 95 μV 110 μV 210 μV 360 μV 1.10 mV 2.10 mV 3.70 mV 3.70 mV 3.70 mV	8.6 bits 100 μV 100 μV 105 μV 110 μV 130 μV 265 μV 450 μV 1.25 mV 2.60 mV	145 μV 145 μV 150 μV 155 μV 185 μV 275 μV	
Vertical Noise Floor (rms, 50 Ω) 1 mV/div 2 mV/div 5 mV/div 10 mV/div 20 mV/div 50 mV/div 100 mV/div 200 mV/div 200 mV/div 00 mV/div 200 mV/div 00 mV/div 0 mV/div	85 μV 85 μV 90 μV 95 μV 110 μV 210 μV 360 μV 1.10 mV 2.10 mV 2.10 mV 3.70 mV 3.70 mV	100 μV 100 μV 105 μV 110 μV 130 μV 265 μV 450 μV 1.25 mV 2.60 mV	145 μV 145 μV 150 μV 155 μV 185 μV 275 μV	
1 mV/div 2 mV/div 5 mV/div 10 mV/div 20 mV/div 50 mV/div 100 mV/div 200 mV/div 200 mV/div 500 mV/div 500 mV/div 100 mV/div Channel-Channel Isolation Offset Range DC Vertical Offset Accuracy 4 DC Vertical Offset Accuracy 4 Maximum Input Voltage	85 μV 90 μV 95 μV 110 μV 210 μV 360 μV 1.10 mV 2.10 mV 3.70 mV 3.70 mV	100 μV 105 μV 110 μV 130 μV 265 μV 450 μV 1.25 mV 2.60 mV	145 μV 150 μV 155 μV 155 μV 185 μV 275 μV	
2 mV/div 5 mV/div 10 mV/div 20 mV/div 50 mV/div 200 mV/div 200 mV/div 500 mV/div 1 V/div Sensitivity 50 DC Vertical Gain Accuracy 4 (Gain Component of DC Accuracy) Channel-Channel Isolation Offset Range DC Vertical Offset Accuracy 4 Maximum Input Voltage	85 μV 90 μV 95 μV 110 μV 210 μV 360 μV 1.10 mV 2.10 mV 3.70 mV 3.70 mV	100 μV 105 μV 110 μV 130 μV 265 μV 450 μV 1.25 mV 2.60 mV	145 μV 150 μV 155 μV 155 μV 185 μV 275 μV	
5 mV/div 10 mV/div 20 mV/div 50 mV/div 100 mV/div 200 mV/div 500 mV/div 500 mV/div 500 mV/div 500 mV/div 00 mV/div 1 V/div Sensitivity 50 C Vertical Gain Accuracy 4 (Gain Component of DC Accuracy) Channel-Channel Isolation Offset Range DC Vertical Offset Accuracy 4 Maximum Input Voltage	90 μV 95 μV 110 μV 210 μV 360 μV 1.10 mV 2.10 mV 3.70 mV 3.70 mV	105 μV 110 μV 130 μV 265 μV 450 μV 1.25 mV 2.60 mV	150 μV 155 μV 185 μV 275 μV	
10 mV/div 20 mV/div 50 mV/div 100 mV/div 200 mV/div 200 mV/div 500 mV/div	95 μV 110 μV 210 μV 360 μV 1.10 mV 2.10 mV 3.70 mV 3.70 mV 50 Ω: 1 mV–1 V/div, fully variable; 1 M	110 μV 130 μV 265 μV 450 μV 1.25 mV 2.60 mV	155 μV 185 μV 275 μV	
20 mV/div 50 mV/div 100 mV/div 200 mV/div 200 mV/div 500 mV/div 500 mV/div 500 mV/div 500 mV/div 500 mV/div 500 mV/div 1 V/div 500 mV/div 500 mV/div 1 V/div 500 mV/div 1 V/div 500 mV/div 1 V/div 500 mV/div 500	110 μV 210 μV 360 μV 1.10 mV 2.10 mV 3.70 mV 50 Ω: 1 mV-1 V/div, fully variable; 1 M	130 μV 265 μV 450 μV 1.25 mV 2.60 mV	185 μV 275 μV	
50 mV/div 100 mV/div 200 mV/div 500 mV/div 500 mV/div 1 V/div Sensitivity Component of DC Accuracy (Gain Component of DC Accuracy) Channel-Channel Isolation Offset Range DC Vertical Offset Accuracy ± Maximum Input Voltage	210 μV 360 μV 1.10 mV 2.10 mV 3.70 mV 50 Ω: 1 mV–1 V/div, fully variable; 1 M	265 μV 450 μV 1.25 mV 2.60 mV	275 µV	
100 mV/div 200 mV/div 500 mV/div 1 V/div Sensitivity Component of DC Accuracy (Gain Component of DC Accuracy) Channel-Channel Isolation Offset Range DC Vertical Offset Accuracy 4 Maximum Input Voltage	360 μV 1.10 mV 2.10 mV 3.70 mV 50 Ω: 1 mV−1 V/div, fully variable; 1 M	450 μV 1.25 mV 2.60 mV		
200 mV/div 500 mV/div 1 V/div Sensitivity DC Vertical Gain Accuracy (Gain Component of DC Accuracy) Channel-Channel Isolation Offset Range DC Vertical Offset Accuracy ± Maximum Input Voltage	1.10 mV 2.10 mV 3.70 mV 50 Ω: 1 mV−1 V/div, fully variable; 1 M	2.60 mV		
1 V/div Sensitivity 5 DC Vertical Gain Accuracy ± (Gain Component of DC Accuracy) ± Channel-Channel Isolation ± Offset Range ± DC Vertical Offset Accuracy ± Maximum Input Voltage 5	<u>3.70 mV</u> 50 Ω: 1 mV−1 V/div, fully variable; 1 M	2.60 mV	1.75 mV	
Sensitivity E DC Vertical Gain Accuracy ± (Gain Component of DC Accuracy) ± Channel-Channel Isolation ± Offset Range ± DC Vertical Offset Accuracy ± Maximum Input Voltage 5	50 Ω: 1 mV–1 V/div, fully variable; 1 M	150 11	2.75 mV	
DC Vertical Gain Accuracy (Gain Component of DC Accuracy) Channel-Channel Isolation Offset Range DC Vertical Offset Accuracy Maximum Input Voltage		4.50 mV	4.90 mV	
(Gain Component of DC Áccuracy) Channel-Channel Isolation Offset Range DC Vertical Offset Accuracy ± Maximum Input Voltage		Ω : 1 mV–10 V/div, fully variable		
Offset Range DC Vertical Offset Accuracy ± Maximum Input Voltage 5	E(0.5%) FS, offset at 0 V			
DC Vertical Offset Accuracy ± Maximum Input Voltage 5	60 dB up to 200 MHz 50 dB up to 350 MHz	60 dB up to 200 MHz 50 dB up to 500 MHz	60 dB up to 200 MHz 50 dB up to 500 MHz 40 dB up to 1 GHz	
Maximum Input Voltage 5	10 1 m 10 m	nV to 4.95 mV: ±1.6 V, 5 mV to 9.9 mV: ±) 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	0 ∨ 4 ∨ -16 ∨	
Maximum Input Voltage 5	±(1.0% of offset setting + 0.5%FS + 0.02% of max offset + 1mV)			
-	50 Ω: 5 Vrms, ± 10 V Peak 1 MΩ: 400 V max. (DC + Peak AC ≤ 10 kHz)			
	50 Ω: DC, GND; 1 MΩ: AC, DC, GND			
Input Impedance 5	50 Ω ± 2.0%;1 MΩ ± 2.0% 15 pF			
	20 MHz, 200 MHz			
4 4 F t V F	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, Ib-ft, Ib-in, oz-in, Watt, horsepower; Other: %			
Horizontal - Analog Channels				
	nternal timebase common to 4 input of	channels		
		mory (up to 10 ks/div with -L memory, 2 e available at ≥ 100 ms/div and ≤ 5 MS/s		
	±2.5 ppm + 1.0ppm/year from calibrat			
	Jp to 10 ms acquired time range: 280			
Delta Time Measurement Accuracy	$\sqrt{2} * \sqrt{\left(\frac{Noise}{SlewRate}\right)^2 + (Sample Clock Jit)}$	tter)² (RMS) + (clock accuracy * reading) (second	ds)	
Jitter Measurement Floor	$\sqrt{\left(\frac{Noise}{SlewRate} ight)^2}$ + (Sample Clock Jiti	tter)² (RMS, seconds, TIE)		
	Analog Channels: 2 psrms (TIE, typical) Digital Channels: 350 ps (maximum) between any two channels Analog-Digital Channels: <5ns (maximum) between any analog and any digital channel			
	Analog-Digital Channels: <5ns (maxim	±9 x time/div. setting, 100 ms max., each channel 10 MHz ±25 ppm at 0 to 10 dBm into 50 0bms		
External Timebase Reference (Output) 1	Analog-Digital Channels: <5ns (maxim			



	HD06034B	HDO6054B, HDO6054B-MS	HDO6104B, HDO6014B-MS
Acquisition - Analog Channels			
Sample Rate (Single-Shot)	10 GS/s on all 4 Channels with Enhanced 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 1	Mpts/ch for all channels (30,000 segme	nts)
Acquisition Mode)		Option - L:	
	100 Mpts/ch for all channels (60,000 segments) Option -XL :		ents)
	250	Mpts/ch for all channels (65,000 segme	ante)
Intersegment Time	1.25 μs	mpts/errior all charnels (03,000 segme	
Averaging		s; continuous averaging to 1 million sw	eens
Interpolation	Linear or Sin x/x (2 pt and 4 pt);		
interpolation		lefaults to 2 pt or 4 pt Sin x/x respective	ely
Vertical, Horizontal, Acquisition	- Digital Channels (-MS Models onl	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	CL, LVDS or User Defined	
Threshold Accuracy	$\pm(3\% \text{ of threshold setting} + 100 \text{ mV})$		
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		
onamer to onamer onew	000 00		
Triggering System			
Modes	Normal, Auto, Single, and Stop		
Sources		slope and level unique to each source (e	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,	imited at slower time/div settings or in	roll mode
Hold-off	From 2 ns up to 20 s or from 1 to 99,9		
Trigger and Interpolator Jitter	≤ 4.0 ps rms (typical)	≤ 3.5 ps rms (typical)	≤ 3.5 ps rms (typical)
	<0.1 ps rms (typical, software	<0.1 ps rms (typical, software	<0.1 ps rms (typical, software
Internal Trigger Level Denge	assisted)	assisted)	assisted)
Internal Trigger Level Range	± 4.1 div from center (typical)		
External Trigger Level Range Maximum Trigger Rate	Ext (±400 mV); Ext/10 (±4 V) 800,000 waveforms/sec (in Sequence	Mada up to 1 abappala)	
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
		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, HDO6104B-MS
Trigger Types			
Edge	Triggers when signal meets slope (po	ositive, negative, or either) and level co	ondition.
Width	Triggers on positive or negative glitch Minimum width: 1.5 ns, maximum wi	dth: 20 s	
Glitch	Triggers on positive or negative glitch Minimum width: 1.5 ns, maximum wi		
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.	NOR) of 5 inputs (4 channels and externed low level can be selected independent	nal trigger input). Each source can ently. Triggers at start or end of
Runt	Trigger on positive or negative runts de	fined by two voltage limits and two time	limits. Select between 1 ns and 20 ns.
Slew Rate	Trigger on edge rates. Select limits fo		
nterval	Triggers on intervals selectable betw		
Dropout	Triggers if signal drops out for longer		20 s.
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 even	ts (Note: event B pattern trigger cann	ot include analog channels).
Multi-stage: Qualified First	In Sequence acquisition mode, trigge satisfied in the first segment of the a event B pattern trigger cannot include	rs repeatably on event B only if a defined	ned pattern, state or edge (event A) is
Multi-Stage: Cascade (Sequence) Trigger, Capability	Arm on "A" event, then Trigger on "B" event	event. Or Arm on "A" event, then Qualit	y on "B" event, and Trigger on "C"
Multi-Stage: Cascade (Sequence)	Cascade A then B: Edge, Window, Pat	tern (Logic) Width Glitch Interval Dro	poout, or Measurement
Trigger, Types	Measurement can be on Stage Bonly Width, Glitch, Interval, Dropout, or Me C: Edge, Window, Pattern (Logic)	. Cascade A then B then C (Measurer	nent): Edge, Window, Pattern (Logic)
Multi-Stage: Cascade (Sequence)	Holdoff between A and B or B and C i	s selectable by time or number of eve	nts. Measurement trigger selection
Trigger, Holdoff	as the last stage in a Cascade preclu		
Low Speed Serial Protocol Triggeri	ng (Optional)		
Measurement Tools	Please refer to the Oscilloscope Feat instruments	ares, options, and accessories catalo	g for the latest onenings on all our
Measurement Functionality	Display up to 8 measurement parame standard deviation, and total number statistics table. Histicons provide a f Parameter math allows addition, sub gates define the location for measure values based on range setting or way	Each occurrence of each parameter ast, dynamic view of parameters and traction, multiplication, or division of t ment on the source waveform. Parar reform state.	is measured and added to the waveshape characteristics. wo different parameters. Parameter neter accept criteria define allowable
Measurement Parameters - Horizontal and Jitter	Cycles (number of), Delay (from trigg level), Fall Time (90-10, @levels), Frec Jitter (peakpeak), Number of Points, @levels), Setup (@levels), Skew (@lev Time (@level), Width (50%, @level), Δ	er, 50%), ∆ Delay (50%), Duty Cycle (5 guency (50%, @level), Half Period (@le Period (50%, @level), ∆ Period (@level vels), Slew Rate (@levels), Time Interv Width (@level), X(value)@max, X(valu	al Error (@level), Time (@level), Δ
Measurement Parameters - Vertical	Amplitude, Base, Level@X, Maximum		
Measurement Parameters - Pulse	Area, Base, Fall Time (90-10, 80-20, @ Top, Width (50%)		
Measurement Parameters - Statistical (on Histograms)	Full Width (@HalfMax, @%), Amplituc Mode, Range, RMS, Std. Deviation, To	le, Base, Peak@MaxPopulation, Maxir pp, X(value)@Peak, Peaks (number of)	num, Mean, Median, Minimum, , Percentile, Population (@bin, total)
Math Tools			
Math Functionality	Display up to 8 math functions traces operations on each function trace, ar		
Math Operators - Basic Math	Average (summed), Average (continu Reciprocal, Rescale (with units), Root	ous), Difference (–), Envelope, Floor, I	
Math Operators - Digital (incl. with -MS Models)	Digital AND, Digital DFlipFlop, Digital		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 Rectang		
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			d (detales) of we to 1 w '''
	Histogram of statistical distributions measurements. Track (measuremen histogram and persistence trace (me	t vs. time, time-correlated to acquisiti	ia (datalog) of up to T million ons) of any parameter. Persistence



			4090
	HDO6034B	HD06054B.	HD06104B,
		HD06054B-MS	HD06104B-MS
Pass/Fail Testing			
rass/rail lesting	Disaleurus ta O Dasa (Esil suerias usia		
	Display up to 8 Pass/Fail queries usin	ig a Single or Dual Parameter Compariso	on (compare All values, or Any
	$\Delta II \cap Ut \Delta ny In or \Delta ny \cap Ut conditions)$	Combine queries into a boolean expres	sion to Pass or Fail IF "All True"
	"All False" "Any True" "Any False" or g	roups of "All" or "Any" with following TH	=N Save (waveforms) Stop (test)
	(sound) Alarm, (send) Pulse, (save) La	g a Single or Dual Parameter Comparisc or %) or Mask Test (pre-defined or user- . Combine queries into a boolean expres roups of "All" or "Any", with following TH abNotebook or other User(-defined) Actio	
Display System			
Size	Color 15.6" widescreen capacitive tou	ich screen	
Resolution	Full HD (1920 x 1080 pixels)		
Number of Traces		ultaneously display channel, zoom, men	nory and math traces.
Grid Styles		l, Tandem, Triad, Quattro, Twelve, Sixteer	
	Dual+X-Y		i, i wenty, x i, eingleix i,
Waveform Representation	Sample dots joined, or sample dots o	nlv	
)	
Processor/CPU			
Туре	Intel® Core i5-6500 Quad Core, 3.2 G	Hz (or better)	
Processor Memory	16 GB standard		
Operating System	Microsoft Windows® 10		
Real Time Clock		in hardcopy files. SNTP support to synchr	onize to precision internal clocks
Real Hille Glock	Date and time displayed with waveronn	ninnardcopy nies. Sinn Support to synchi	onize to precision internal clocks.
Connectivity			
Ethernet Port	2 x 10/100/1000BaseT Ethernet inter	rface (B 1/15 port)	
USB Host Ports	4 side USB 3.1 Gen1 ports, 2 front US		
USB Device Port	1 USBTMC over USB 2.0 port		
	Supports IEEE-488.2 (External)		
GPIB Port (Optional)			
External Monitor Port	1 x DisplayPort, supports up to 4096x		
Devereta Oevetual	1 x HDMI, supports up to 4096x2304		
Remote Control	Microsoft COM Automation or LeCroy	Remote Command Set	
Network Communication Standard	VICP or VXI-11, LXI Compatible		
Power Requirements			
	100 240 \/40 (110%) at E0/C0/400 L		
Voltage	100-240 VAC (±10%) at 50/60/400 Hz	Z (±5%)	
Nominal Power Consumption	220 W / 220 VA		
Max Power Consumption	320 W / 320 VA		
Environmental			
Environmental	. 5 10 1		
Temperature (Operating)	+5 °C to +40 °C		
Temperature (Non-Operating)	-20 °C to +60 °C		
Humidity (Operating)	5% to 90% relative humidity (non-cond Upper limit derates to 50% relative hu	densing) up to +31 °C	
Humidity (Non-Operating)		densing) 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		
Random Vibration (Non-Operating)	2.4 grms 5 Hz to 500 Hz, 15 minutes		
Functional Shock	30 g peak, half sine, 11 ms pulse, 3 shock	<s (positive="" and="" each="" in="" negative)="" of="" or<="" td="" three=""><td>thogonal axes, 18 shocks total</td></s>	thogonal axes, 18 shocks total
Size and Weight			
Dimensions (HWD)	13.8" H x 17.5" W x 6.7" D (352 mm x 4	445 mm x 170 mm)	
Weight	21 lbs (9.8 kg)		
Certifications			
CE Certification		Forms to UL 61010-1 (3rd Edition), UL 61	010-2-030 (1st Edition)
UL and cUL Listing	CAN/CSA C22.2 No. 61010-1-12		
Wernenty and Comiss			
Warranty and Service	0	anded annually. Ontional service program	
	Z voor worronty, oolibration roommo	paga applially liptional carvia program	

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

Frequency Specification

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 µHz - 3 MHz

ORDERING INFORMATION

Product Description HDO6000B Oscilloscopes	Product Code
350 MHz, 4 Ch, 12 Bits, 10 GS/s, 50 Mpts/Ch	HD06034B
High Definition Oscilloscope	
with 15.6" 1920x1080 capacitive touch screen	
and 4K extended desktop	
500 MHz, 4 Ch, 12 Bits, 10 GS/s, 50 Mpts/Ch	HD06054B
High Definition Oscilloscope	
with 15.6" 1920x1080 capacitive touch screen	
and 4K extended desktop	
1 GHz, 4 Ch, 12 Bits, 10 GS/s, 50 Mpts/Ch	HD06104B
High Definition Oscilloscope	
with 15.6" 1920x1080 capacitive touch screen	
and 4K extended desktop	

HDO6000B-MS Mixed Signal Oscilloscopes

500 MHz, 4 Ch, 12 Bits, 10 GS/s, 50 Mpts/Ch	HDO6054B-MS
High Definition Mixed Signal Oscilloscope	
with 15.6" 1920x1080 capacitive touch screen	
and 4K extended desktop	
1 GHz, 4 Ch, 12 Bits, 10 GS/s, 50 Mpts/Ch	HDO6104B-MS
High Definition Mixed Signal Oscilloscope	
with 15.6" 1920x1080 capacitive touch screen	

Included with Standard Configurations (HDO6000B and HDO6000B-MS)

÷10 Passive Probe (Qty. 4), Getting Started Guide, Anti-virus Software (Trial Version), 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

Included with HDO6000B-MS

16 Channel Digital Leadset, 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-XL

CPU, Computer, and Other Hardware Options	
Additional Removable Solid State Drive	HD06KB-SSD-02
WaveSource Arbitrary Function Generator	HD06KB-AFG

Serial Trigger and Decode Options

Senal mggel and Decode Option	15
100Base-T1 Trigger, Decode, Measur and Physical Layer Option	e/Graph, HDO6K-100BASE-T1 TDMP
100Base-T1 Trigger & Decode	HDO6K-100Base-T1bus TD
10Base-T1S Trigger, Decode, Measur Graph, and Eye Diagram Option	e/ HD06K-10BASE-T1S TDME
10Base-T1S Trigger and Decode Opti	on HD06K-10BASE-T1S TD
MIL-STD-1553 Trigger & Decode	HD06K-1553 TD
MIL-STD-1553 Trigger, Decode, Meas and Eye Diagram	ure/Graph, HD06K-1553 TDME
ARINC 429 Bus Symbolic Decode, Measure/Graph, and Eye Diagram	HDO6k-ARINC429BUS DME SYMBOLIC
ARINC 429 Symbolic Decode	HDO6K-ARINC429bus DSymbolic
Audiobus Trigger and Decode	HDO6K-Audiobus TD
Audiobus Trigger, Decode, And Graph	HDO6K-Audiobus TDG
CAN FD Trigger & Decode	HD06K-CAN FDbus TD
CAN FD Symbolic Trigger, Decode, and Measure/Graph, and Eye Diagram	HDO6K-CAN FDBUS TDME SYMBOLIC
CAN Trigger and Decode Option	HDO6K-CANbus TD
CAN Symbolic Trigger, Decode, and Measure/Graph, and Eye Diagram	HDO6K-CANBUS TDME SYMBOLIC
CAN/ CAN FD/ CAN XL Trigger and D	ecode HD06K-CAN XL TD
CAN /CAN FD/ CAN XL Symbolic Trigger, Decode, Measure/Graph, and Eye Diagram	HD06K-CAN XL TDME SYMBOLIC

Η	D
40	96

Product Description	Product Code
Serial Trigger and Decode Options (co	nt'd)
DigRF 3G Decode	HDO6K-DigRF3Gbus D
DigRF v4 Decode	HD06K-DigRFv4bus D
D-PHY Decode	HD06K-DPHYbus D
DisplayPort AUX Decode Option	HD06K-DPAUX D
I ² C, SPI and UART-RS232 Trigger & Decode	HDO6K-EMB TD
I ² C, SPI, UART-RS232 Trigger, Decode,	HD06K-EMB TDME
Measure/Graph, and Eye Diagram	FIDOOR-LIVID TDIVIL
ENET Decode	HD06K-ENETbus D
FlexRay Trigger & Decode	HD06K-FlexRaybus TD HD06K-FLEXRAYBUS TDMP
FlexRay Trigger, Decode, Measure/Graph	HDUOK-FLEXRAYBUS I DIVIP
and Physical Layer	
<u>I²C Bus Trigger & Decode</u>	HD06K-I2Cbus TD
I ² C Trigger, Decode, Measure/Graph,	HD06K-12CBUS TDME
and Eye Diagram	
I ³ C Bus Trigger & Decode	HD06K-I3Cbus TD
I ³ C Trigger, Decode, Measure/Graph,	HD06K-I3Cbus TDME
and Eye Diagram	
LIN Trigger & Decode	HDO6K-LINbus TD
LIN Trigger, Decode, Measure/Graph,	HD06K-LINBUS TDME
and Eye Diagram	
Manchester Decode	HDO6K-Manchesterbus D
MDIO Decode	HDO6K-MDIObus D
NRZ Decode	HDO6K-NRZbus D
PMBus Trigger & Decode	HD06K-PMBUS TD
PMBus Trigger, Decode, Measure/Graph,	HD06K-PMBUS TDME
and Eye Diagram	
SENT Trigger & Decode	HDO6K-SENTbus TD
SENT Trigger, Decode, Measure/Graph,	HDO6K-SENTbus TDME
and Eye Diagram	
SpaceWire Decode	HDO6K-SpaceWirebus D
SPI Bus Trigger and Decode	HD06K-SPIbus TD
SPI Trigger, Decode, Measure/Graph,	HD06K-SPIBUS TDME
and Eye Diagram	
SMBus Trigger & Decode	HD06K-SMBUS TD
SMBus Trigger, Decode, Measure/Graph,	HD06K-SMBUS TDME
and Eye Diagram	
UART and RS-232 Trigger & Decode	HD06K-UART-RS232bus TD
UART-RS232 Trigger, Decode,	HD06K-UART-RS232BUS TDME
Measure/Graph, and Eye Diagram	
USB2-HSIC Decode	HD06K-USB2-HSICbus D
USB 2.0 Trigger and Decode	HD06K-USB2bus TD
USB 2.0 Trigger, Decode, Measure/Graph,	HD06k-USB2BUS TDME
and Eye Diagram	
USB Power Delivery Trigger & Decode	HD06K-USBPD TD
USB Power Delivery Trigger, Decode,	HD06K-USBPD TDME
Measure/Graph, and Eye Diagram	
USB4-SB Trigger, Decode, Measure/Graph,	and HDO6K-USB4SB TDMP
PHY Measurement Optio	

Serial Data Analysis Options

NRZ Serial Data Analysis Framework,	HD06K-SDAX-NRZ
Eye, Jitter, Noise and Crosstalk Measurements	
PAM Serial Data Expert Analysis Framework,	HD06K-SDAX-PAM
Eye, Jitter and Noise Measurements	
Serial Data Mask Option	HD06K-SDM

Serial Data Compliance Test Options

QualiPHY 10Base-T1L Compliance Software	QPHY-10Base-T1L
QualiPHY 10Base-T1S Compliance Software	QPHY-10Base-T1S
QualiPHY 100Base-T1 Compliance Software	QPHY-100Base-T1
QualiPHY Ethernet 10/100/1000BT Software	QPHY-ENET
QualiPHY MOST50 ePHY Compliance Software	QPHY-MOST50
QualiPHY USB 2.0 Compliance Software for	QPHY-USB
Low Speed and Full Speed data rates	

ORDERING INFORMATION

TF-USB-C-SB Jre TF-USB-C-HS TF-AUTO-HMTD TF-AUTO-ENET TF-AUTO-MATENET TF-AUTO-ENET-SMA TF-AUTO-MINI50 HD06K-POWER-DEVICE HD06K-POWER-DEVICE HD06K-DIG-PWR-MGMT 5K-THREEPHASEPOWER IREEPHASEHARMONICS
UTE TF-USB-C-HS TF-AUTO-HMTD TF-AUTO-ENET TF-AUTO-ENET TF-AUTO-ENET-SMA TF-AUTO-MINI50 HD06K-POWER-DEVICE HD06K-POWER-DEVICE HD06K-PWR-MGMT 5K-THREEPHASEPOWER IREEPHASEHARMONICS
TF-AUTO-HMTD TF-AUTO-ENET TF-AUTO-ENET-SMA TF-AUTO-ENET-SMA TF-AUTO-MINI50 HD06K-POWER-DEVICE HD06K-PWR-MGMT 5K-THREEPHASEPOWER IREEPHASEHARMONICS
TF-AUTO-ENET TF-AUTO-MATENET TF-AUTO-ENET-SMA TF-AUTO-MINI50 HD06K-POWER-DEVICE HD06K-POWER-DEVICE HD06K-DIG-PWR-MGMT 5K-THREEPHASEPOWER IREEPHASEHARMONICS
TF-AUTO-MATENET TF-AUTO-ENET-SMA TF-AUTO-MINI50 HD06K-POWER-DEVICE HD06K-DIG-PWR-MGMT 5K-THREEPHASEPOWER IREEPHASEHARMONICS
TF-AUTO-ENET-SMA TF-AUTO-MINI50 HD06K-POWER-DEVICE HD06K-DIG-PWR-MGMT 5K-THREEPHASEPOWER IREEPHASEHARMONICS
TF-AUTO-ENET-SMA TF-AUTO-MINI50 HD06K-POWER-DEVICE HD06K-DIG-PWR-MGMT 5K-THREEPHASEPOWER IREEPHASEHARMONICS
HD06K-POWER-DEVICE HD06K-PWR HD06K-DIG-PWR-MGMT 5K-THREEPHASEPOWER IREEPHASEHARMONICS
HDO6K-PWR HDO6K-DIG-PWR-MGMT 5K-THREEPHASEPOWER IREEPHASEHARMONICS
HDO6K-PWR HDO6K-DIG-PWR-MGMT 5K-THREEPHASEPOWER IREEPHASEHARMONICS
HDO6K-PWR HDO6K-DIG-PWR-MGMT 5K-THREEPHASEPOWER IREEPHASEHARMONICS
HDO6k-DIG-PWR-MGMT 5K-THREEPHASEPOWER IREEPHASEHARMONICS
5K-THREEPHASEPOWER IREEPHASEHARMONICS
IREEPHASEHARMONICS
K-THREEPHASEVECTOR
K-THREEPHASEVECTOR
K-THREEPHASEVECTOR
HD06K-JITKIT
HD06K-DFP2
MAUI Studio Pro
HDO6K-SPECTRUM-1
DO6K-SPECTRUM-PRO-2R
HD06K-XDEV
HD06K-EMC
USB2-GPIB
HD06K-SOFTCASE
HD06KB-RACKMOUNT

Product Description Product Code **Probes** High Voltage Optically Isolated Probe, 350 MHz Bandwidth. DL03-ISO High Voltage Optically Isolated Probe, 700 MHz Bandwidth. DL07-ISO High Voltage Optically Isolated Probe, 1 GHz Bandwidth DL10-ISO 500 MHz Passive Probe, 2.5mm, 10:1, 10 MΩ PP023-1 PP026-1 500 MHz Passive Probe, 5mm, 10:1, 10 MΩ High Voltage Fiber Optic Probe, 150 MHz HVF0108 TekProbe to ProBus Probe Adapter TPA10 Power/Voltage Rail Probe. 2 GHz bandwidth, RP2060 1.2x attenuation, +/-60V offset, +/-800mV Power/Voltage Rail Probe. 4 GHz bandwidth, RP4060 1.2x attenuation, +/-60V 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, 10 MHz Current Probe - AC/DC, 30 A rms, 50 A Peak Pulse, CP030-3M 3 meter cable 30A, 50 MHz High Sensitivity Current Probe - AC/DC, 30 Arms, CP030B 50 Apeak Pulse, 1.5 meter cable 30 A; 100 MHz Current Probe – AC/DC; 30 Arms; 50 Apeak Pulse CP031 30A, 100 MHz High Sensitivity Current Probe - AC/DC, 30 Arms, CP031A 50 Apeak Pulse, 1.5 meter cable 150 Å; 10 MHz Current Probe – AC/DC; 150 Arms; 500 Apeak CP150B Pulse 150 A, 5 MHz Current Probe - AC/DC, 150 A rms, 500 A Peak CP150-6M Pulse, 6 meter cable 500 A; 2 MHz Current Probe - AC/DC; 500 Arms; 700 Apeak 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 250 MHz 60 V Common Mode Differential Probe DL02-HCM 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 HVD3102A-NOACC tip Accessories) 1,500 V, 120 MHz High-Voltage Differential Probe HVD3106A 1kV, 120 MHz High Voltage Differential Probe without HVD3106A-NOACC tip Accessories 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 2kV, 400 MHz High Voltage Differential Probe HVD3220 700 V, 25 MHz High Voltage Differential Probe AP031 (÷10, ÷100) 400 MHz, 1kV Vrms High-Voltage Passive Probe HVP120 6kV High Voltage Passive Probe, 500 MHz PPE6KV-A

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.

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