

Debug in High Definition

1 GHz – 4 GHz



Key Specifications	
Bandwidth	1 GHz, 2 GHz, 3 GHz, 4 GHz
Resolution	10-bit resolution; up to 13.8 bits with Optimized Filtering
Channels	4
Memory	64 Mpts / 128 Mpts (Per Ch/Interleaved)
Sample Rate	Up to 40 GS/s
Digital Channels	16
Digital Sample Rate	1.25 GS/s
Minimum Pulse Width	2 ns
Display	15.4" WXGA Widescreen Capacitive Touch Screen
Connectivity	USB 3.1 Host, USB 3.1 Device, LAN, GPIB

10-bit Resolution, 4 GHz, 40 GS/s

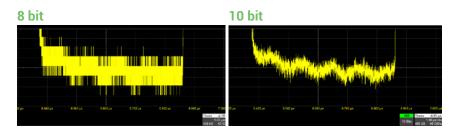
HD1024 High Definition Technology

- Clean, crisp waveforms
- More signal details
- Unmatched measurement precision
- MAUI with OneTouch
 - Designed for Touch
 - Built for Simplicity
 - Made to Solve
- **15.4" Capacitive Touch Screen** Enhances efficiency and intuitiveness of MAUI with OneTouch
- **Mixed Signal** Debug complex embedded designs with integrated 16 channel mixed signal capability
- LabNotebook Save all results and data with a single button press and create custom reports
- Software Options Packages for advanced analysis
 - Serial Bus Trigger, Decode, Measure/Graph and Eye
 - Spectrum Analyzer Option
 - Power Analysis
 - XDEV Advanced Customization
 - QualiPHY Serial Data Compliance
 - Jitter and Timing Analysis

For more information, please contact:						



HD09000 Oscilloscopes Fact Sheet

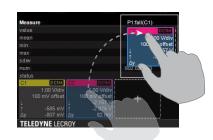


Comparison of 50-to-1 zooms of a sine wave riding on a 5V square wave.

Waveforms displayed by the HDO9000 are cleaner and crisper. More signal details can be seen and measured; these measurements are made with unmatched precision resulting in better test results and shorter debug time.

Ordering Information

	Model	Bandwidth	Channel	Standard Memory	Sample Rate		
	HD09104 / HD09104-MS	1 GHz	4/4+16	128 Mpts	40 GS/s		
	HD09204 / HD09204-MS	2 GHz	4/4+16	128 Mpts	40 GS/s		
	HD09304 / HD09304-MS	3 GHz	4/4+16	128 Mpts	40 GS/s		
	HD09404 / HD09404-MS	4 GHz	4/4+16	128 Mpts	40 GS/s		
Available P	robes						
Single-Ended			High-Voltage				
ZS1000	1 GHz, 0.9 pF, 1 M Ω High Impedance Active Probe		HVP120	100:1 400 MHz 50 MΩ 1 kV High-voltage Probe			
ZS1500	1.5 GHz, 0.9 pF, 1 MΩ High Impedance Active Probe		PPE4KV	100:1 400 MHz 50 MΩ 4kV High-Voltage Probe			
ZS2500	2.5 GHz, 0.9 pF, 1 MΩ High Impedance Active Probe		PPE5KV	1000:1 400 MHz 50 MΩ 5 kV High-Voltage Probe			
ZS4000	$4~\text{GHz},$ 0.6 pF, 1 M Ω High Impedance Active Probe		PPE6KV	1000:1 400 MHz 50 MΩ 6 kV High-Voltage Probe			
Differential			Current				
ZD200	200 MHz, 3.5 pF, 1 MΩ Active Differential Probe, ±20 V		CP030	30 A; 50 MHz Current Probe – AC/DC; 30 Arms; 50 Apeak Pulse			
ZD500	500 MHz, 1.0 pF Active Differential Probe, ±8 V		CP030A	30A, 50 MHz High Sensitivity Current Probe - AC/DC, 30 A rms,			
ZD1000	1 GHz Active Differential Probe			50 A Peak Pulse, 1.5 meter cable			
ZD1500	1.5 GHz Active Differential Probe		CP031	30 A; 100 MHz Current Probe – AC/DC; 30 Arms; 50 Apeak Pulse			
AP033	500 MHz, Active Differential Probe (÷1, ÷10, ÷100)		CP031A	30A, 100 MHz High Sensitivity Current Probe - AC/DC, 30 A rms,			
D410-PS	WaveLink 4 GHz, 2.5 Vp-p Differential Probe System			50 A Peak Pulse, 1.5 meter cable			
D420-PS	WaveLink 4 GHz, 5 Vp-p Differential Probe System		CP150	150 A; 10 MHz Current Probe – AC/DC; 150 A _{rms} ; 50 A _{peak} Pulse			
D400A-AT	T WaveLink 4 GHz Diff. Amplifer Module with Adjustable Tip		CP500	500 A; 2 MHz Current Probe – AC/DC; 500 Arms; 700 Apeak Pulse			
			DCS015	Deskew Calibration Source for CP031,CP031A, CP030, and CP030A			
High Voltage Differential		CA10	Programmable Current Sensor to ProBus Adapter for use with				
HVD3102	1kV, 25 MHz High Voltage Differential Probe			third party current sensors			
HVD3106	1kV, 120 MHz High Voltage Differential Probe		TPA10	TekProbe to ProBus Probe Adapter			
HVD3206	2kV, 120 MHz High Voltage Differential Probe						
HVD3206-6M	,		Passive				
HVD3605	6kV, 100 MHz High Voltage Differential Probe		PP022	500 MHz Passive Probe, 2.5mm, 10:1, 10 M			
			PP024	500 MHz Passive Probe, 5mm, 10:1, 10 MΩ			
Differential Amplifiers			PP066	7.5 GHz Low Capacitance Passive Probe (÷	10, 1 kΩ; ÷20, 500 Ω)		
DA1855A	1 Ch, 100 MHz Differential Amplifier						
DA1855A-PR2	2 2 Ch, 100 MHz Differential Amplifier with Pred	cision Voltage Sourc	e				



MAUI with OneTouch optimizes convenience and efficiency. All common operations can be performed with a single touch.



HD1024 High Definition Technology

- 10-bit resolution at 4 GHz with 40 GS/s
- Dynamic ADC reconfiguration
- Up to 13.8 bits with Optimized Filtering

Superior User Experience

- 15.4" high resolution capacitive touch screen
- MAUI with OneTouch:
 - Drag and drop to copy and setup channels, math functions, and parameters
 - Quickly enable new channel, math or measure with "Add New" button
 - Turn off a trace with a flick of a finger

Powerful, Deep Toolbox

- WaveScan[™] search and find
- LabNotebook™ report generator
- Spectrum Analyzer Mode
- Jitter and Timing Analysis
- Exceptional Serial Data Tools