

Debug in High Definition

200 MHz – 1 GHz



Key Specifications

Bandwidth	200 MHz, 350 MHz, 500 MHz, 1 GHz
Resolution	12-bit ADC resolution, up to 15-bit with enhanced resolution
Channels	4
Memory	Up to 50 Mpts/Ch
Sample Rate	Up to 10 GS/s with Enhanced Sample Rate
Digital Channels	16 (with -MS models)
Digital Sample Rate	1.25 GS/s
User Interface	MAUI with OneTouch
Display	12.1" Wide TFT-LCD Multi-Touch Screen
Connectivity	USB Host, USB Device, LAN, GPIB

Tools for Improved Debugging

- **HD4096 Technology** - HD4096 high definition technology enables capture and display of signals up to 1 GHz with high sample rate and 16 times more resolution.
- **Mixed Signal** — Debug complex embedded designs with integrated 16 channel mixed signal capability
- **MAUI with OneTouch** — Dramatically reduce setup time with drag, drop, and flick to instinctively interact with the oscilloscope.
- **Spectrum Analyzer (Optional)**— View signal details in the frequency domain with a spectrum analyzer style user interface
- **WaveScan** — Quickly search waveforms for runts, glitches or other anomalies
- **Long Memory** — Up to 50 Mpts/ch captures and support for 5 MS/s Roll mode.
- **LabNotebook** — Save all results and data with a single button press and create custom reports with LabNotebook
- **Software Options** - 23 different serial trigger/decode options, plus many others

For more information, please contact:

ADMESS

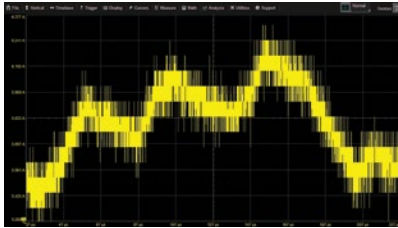
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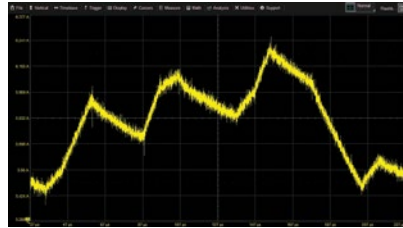


HDO4000A Oscilloscopes Fact Sheet

8 bit

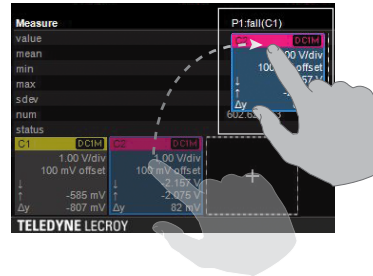


12 bit



Comparison of 20-to-1 vertical zoom of a measured current signal from a pulse-width modulated inverter/drive output.

Waveforms displayed by the HDO8000A 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.



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



Ordering Information

Model	Bandwidth	Channels	Memory (per Ch / interleaved)	Sample Rate
HDO4024A / HDO4024A-MS	200 MHz	4 / 4+16	12.5 Mpts / 25 Mpts	10 GS/s
HDO4034A / HDO4034A-MS	350 MHz	4 / 4+16	12.5 Mpts / 25 Mpts	10 GS/s
HDO4054A / HDO4054A-MS	500 MHz	4 / 4+16	12.5 Mpts / 25 Mpts	10 GS/s
HDO4104A / HDO4104A-MS	1 GHz	4 / 4+16	12.5 Mpts / 25 Mpts	10 GS/s

Available Probes

High Voltage Fiber Optically-isolated Probes

HVF0103 High Voltage Fiber Optic Probe, 60 MHz Bandwidth.

Differential

HVD3102 1kV, 25 MHz High Voltage Differential Probe
HVD3106 1kV, 120 MHz High Voltage Differential Probe
HVD3206 2kV, 120 MHz High Voltage Differential Probe
HVD3605 6kV, 100 MHz High Voltage Differential Probe
AP033 500 MHz Active Differential Probe
ZD200 200 MHz Active Differential Probe
ZD500 500 MHz Active Differential Probe
ZD1000 1 GHz Active Differential Probe
ZD1500 1.5 GHz Active Differential Probe

Differential Amplifiers

DA1855A 1 Ch, 100 MHz Differential Amplifier

Single-Ended

ZS1500 1.5 GHz, 0.9 pF, 1 MΩ High Impedance Active Probe
ZS1000 1 GHz, 0.9 pF, 1 MΩ High Impedance Active Probe

High Voltage

HVP120 400 MHz, 1kV V_{rms} High-Voltage Passive Probe
PPE4KV 100:1 400 MHz 50 MΩ 4kV High-Voltage Probe
PPE5KV 1000:1 400 MHz 50 MΩ 5 kV High-Voltage Probe
PPE6KV 1000:1 400 MHz 50 MΩ 6 kV High-Voltage Probe

Current

CP030 30A; 50 MHz Current Probe – AC/DC; 30 A_{rms}; 50 A_{peak} Pulse
CP030A 30A; 50 MHz High Sensitivity Current Probe - AC/DC; 30 A_{rms}; 50 A_{peak} Pulse,
CP031 30A; 100 MHz Current Probe – AC/DC; 30 A_{rms}; 50 A_{peak} Pulse
CP031A 30A, 100 MHz High Sensitivity Current Probe - AC/DC; 30 A_{rms}; 50 A_{peak} Pulse,
CP150 150A; 10 MHz Current Probe – AC/DC; 150 A_{rms}; 50 A_{peak} Pulse
CP500 500A; 2 MHz Current Probe – AC/DC; 500 A_{rms}; 700 A_{peak} Pulse

Active Voltage Rail Probe

RP4030 Power/Voltage Rail Probe. 4 GHz, ±30V offset, ±800mV

Probe Adapters

TPA10 TekProbe to ProBus Probe Adapter
CA10 Programmable ProBus Current Adapter

Excellent Performance

- 200 MHz, 350 MHz, 500 MHz, 1 GHz
- 12-bit ADC resolution, 15-bit with ERES
- Up to 10 GS/s sample rate
- Up to 25 Mpts / 50 Mpts (interleaved)
- 16 Channel Mixed Signal Capability

Rich Feature Set

- WaveScan™ search and find
- History Mode waveform playback
- LabNotebook™ report generator

Exceptional Serial Data Tools

- I²C, SPI, UART
- CAN, CAN FD, LIN, FlexRay™, SENT
- Ethernet 10/100BaseT, USB 1.0/1.1/2.0, USB 2.0 HSIC
- Audio (I²S, LJ, RJ, TDM)
- MIL-STD-1553, ARINC 429
- MIPI D-PHY, DigRF 3G, DigRF v4
- Manchester, NRZ, MDIO, SpaceWire, SPMI