

World's Only 8 Channel, 12-bit Oscilloscope

350 MHz – 1 GHz



Key Specifications

Bandwidth	350 MHz, 500 MHz, 1 GHz
Resolution	12-bit ADC resolution, up to 15-bit with enhanced resolution
Channels	8
Memory	50 Mpts - 250 Mpts
Sample Rate	Up to 2.5 GS/s
Digital Channels	16 (Optional)
Digital Sample Rate	1.25 GS/s (Optional)
Display	12.1" Wide TFT-LCD Touch Screen with UHD External Monitor Support
Connectivity	USB Host, USB Device, LAN, GPIB

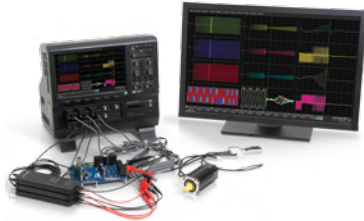
Tools for Improved Debugging

- **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
- **Touch Screen** – Easily configure channels, timebase, trigger and all functions with the intuitive, efficient touch screen interface
- **Q-Scape™ Multi-tab Display Architecture** – More waveforms require more display area. Q-Scape provides 4 display "tabs" and numerous ways to view the displays.
- **Long Memory** – Up to 250 Mpts/ch allows capture of long data records using slow sample rates (as low as 25 kS/s) or 5 MS/s Roll mode.
- **LabNotebook** – Save all results and data with a single button press and create custom reports with LabNotebook
- **Software Options** - 19 different serial trigger/decode options, plus many others.

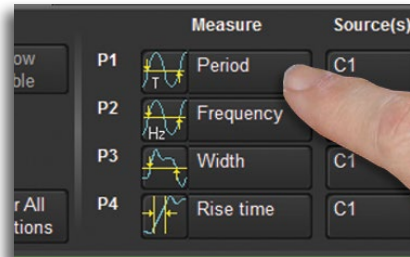
For more information, please contact:



Use Q-Scape Multi-tab Displays to quadruple your display area. Customize tab names. Select from different Q-Scape displays (Single, Dual, Mosaic)



Connect a large external display (up to UHD 3840 x 2160 pixels supported) using DisplayPort 1.2. Maximize your display area for easy understanding of many signals.



Easily control channels, trigger, math and measurements with the large multi-touch display and intuitive interface.



Excellent Performance

- 8 analog channels
- 350 MHz, 500 MHz, 1 GHz
- 12-bit ADC resolution, 15-bit with ERES
- 2.5 GS/s maximum sample rate
- Up to 250 Mpts / Ch
- 16 Channel Mixed Signal Option

Rich Feature Set

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

Wide Range of Serial Data Tools

- I²C, SPI, UART, CAN, 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

Ordering Information

Model	Bandwidth	Channel	Standard Memory / Optional (per Ch)	Sample Rate
HDO8038	350 MHz	8	50 Mpts / 250 Mpts	2.5 GS/s
HDO8058	500 MHz	8	50 Mpts / 250 Mpts	2.5 GS/s
HDO8108	1 GHz	8	50 Mpts / 250 Mpts	2.5 GS/s

Available Probes	
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
Differential	
HVD3106	1,500 V, 120 MHz High-Voltage Differential Probe
HVD3106-6M	1,500 V, 80 MHz High-Voltage Differential Probe with 6m cable
HVD3102	1,500 V, 25 MHz High-Voltage 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
DXC100A	100:1 or 10:1 Selectable, 250 MHz Passive Differential Probe Pair
High-Voltage	
HVP120	400 MHz, 1kV V _{rms} High-Voltage Passive Probe
PPE1.2KV	10:1/100:1 200/300 MHz 50 MΩ High-Voltage Probe 600V/1.2kV Max. Volt. DC
PPE2KV	100:1 400 MHz 50 MΩ 2 kV High-Voltage 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	30 A; 50 MHz Current Probe – AC/DC; 30 A _{rms} ; 50 A _{peak} Pulse
CP030A	30A, 50 MHz High Sensitivity Current Probe – AC/DC; 30 Arms; 50 Apeak Pulse
CP031	30 A; 100 MHz Current Probe – AC/DC; 30 A _{rms} ; 50 A _{peak} Pulse
CP031A	30 A; 100 MHz High Sensitivity Current Probe – AC/DC; 30 Arms; 50 Apeak Pulse
CP150	150 A; 10 MHz Current Probe – AC/DC; 150 A _{rms} ; 50 A _{peak} Pulse
CP500	500 A; 2 MHz Current Probe – AC/DC; 500 A _{rms} ; 700 A _{peak} Pulse