T3DSO4000L-HD Fact Sheet

Low Profile Oscilloscope

TELEDYNE TEST TOOLS
Everywhereyoulook™

500 MHz – 2 GHz
12-bit High Resolution

Key Specifications

Bandwidth	500 MHz, 1 GHz and 2 GHz Bandwidth models
Channels	4 or 8 analog channels plus EXT
Memory	500 Mpts/ch (1 CH), 250 Mpts/ch (2 CHs), 125 Mpts/ch (3 or 4 CHs)
Sample Rate (Max)	10 GSa/s with ESR per channel
Waveform capture rate (Max.)	Normal mode: 170,000 wfm/s; Sequence mode: 750,000 wfm/s
Waveform Generator	Built-in 25 MHz Waveform Generator

Tools for Improved Debugging

• **Low profile form factor:** **4 Channel Model: 1U High Package** **8 Channel Model: 2U High Package**	✓ **Get better insight on the signal being measured with minimal noise interference.**
• **12-bit ADC combined with low noise front end provides excellent noise performance.**	✓ **Low-profile, high-density package saves rack space for automated test applications.**
• **Math and Measure** – 9 basic math functions plus FFT, and 50+ automatic measurement parameters.	✓ **Extract results from waveforms and measurements.**
• **Built-in web server** – supports remote control over LAN port.	✓ **Save data for external analysis and screen images for reports.**
• **History** – record function, the maximum recorded waveform length is 80,000 frames.	✓ **Replay the changing waveform history.**
• **Includes Bode Plot, Eye/Jitter Analysis, and Power Analysis applications as standard.**	✓ **Common applications coverage as standard.**
• **Optional 16 Channel Logic Probe to enable Mixed Signal functionality.**	✓ **Add mixed signal debugging to your Oscilloscope.**

For more information, please contact:

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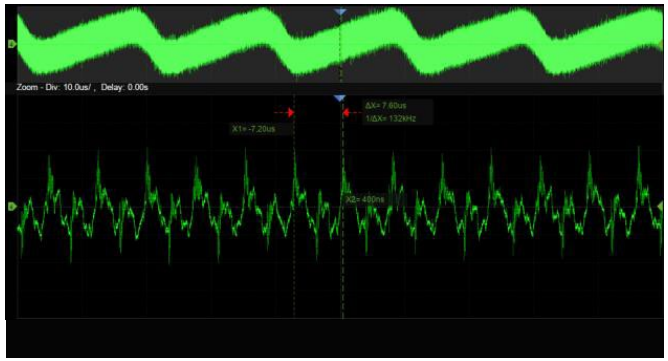
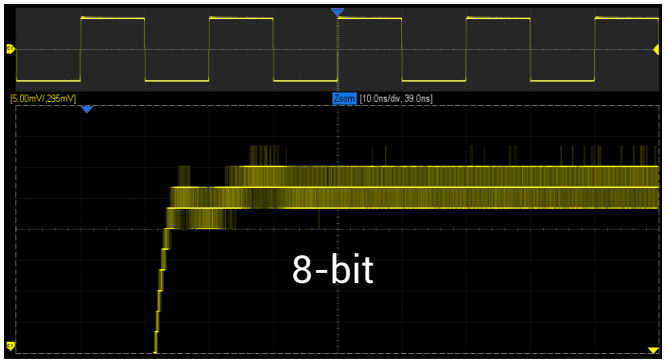
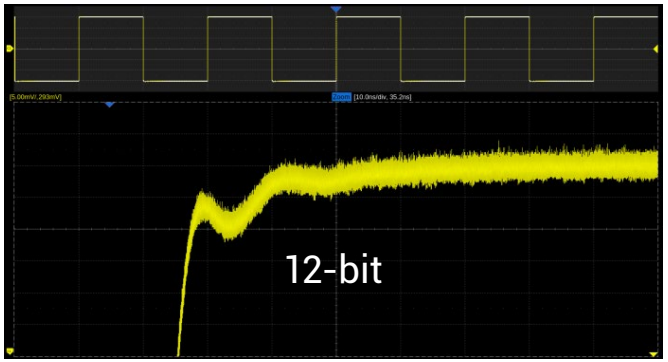
T3DSO4000L-HD Functions & Characteristics

1 Deep Record Length



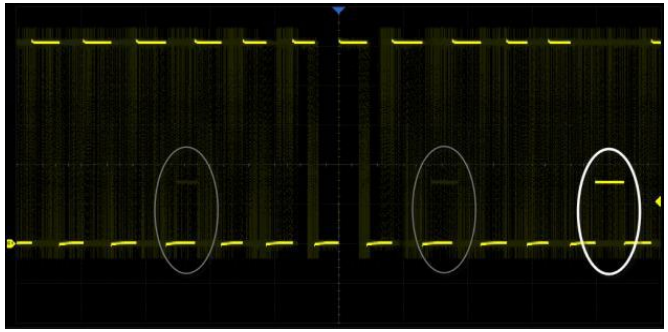
2 12-bit High Resolution





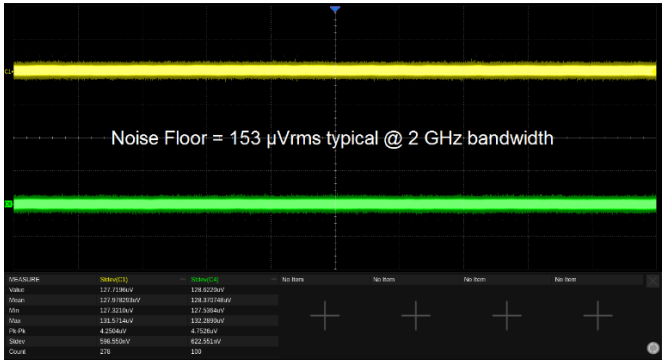
12-bit resolution shows you more details and less noise on the waveform.

3 High Waveform Update Rate



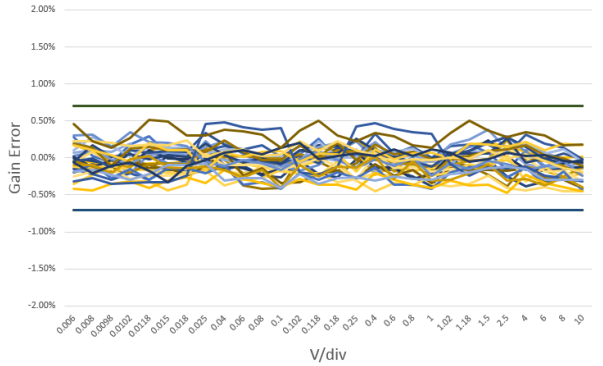
With a waveform update rate of up to 170,000 wfm/s, the oscilloscope can easily capture unusual or low-probability events. In Sequence mode, the waveform capture rate can reach 750,000 wfm/s.

4 High Performance Front-end



The noise floor value is: 153 µVrms at full bandwidth of 2 GHz 125 µVrms at bandwidth of 1 GHz.

5 Superb DC Gain Accuracy



A typical DC Gain Accuracy 0.5 % combined with low noise floor provides the capability to perform sensitive measurement required for wide range of applications.