



This document contains the firmware release notes for two models of SIGLENT SDS1000X-E oscilloscopes.

The SDS1202X-E is a dual channel 200 MHz scope.

The SDS1004X-E is a four channel scope available in 100 and 200 MHz options.

The firmware is specific for a particular model. The 2 channel firmware will not work with the 4 channel scope and vice versa.

The release notes document is for reference only.

The official release notes are located in the zipped folder that contains the actual firmware download.

### **Release Notes of the SDS1002X-E Follow**

## Revision History

Date	Version	Revision
2018/1/27	5.1.3.17R1	1. Fixed bug: Sometimes Auto setup fails on probe compensation output .
2017/11/20	5.1.3.17	<ol style="list-style-type: none"> <li>1. Fixed bug: Corrected under-compensation from probe compensation waveform on 100 mV/div ranges.</li> <li>2. Fixed bug: FFT horizontal frequency div is incorrect. The wrong sequence is shown: 5 Hz, 2 Hz, 1 Hz, 2 Hz, 5 Hz, 100 mHz, 200 mHz.</li> <li>3. Optimized translation for German and English menus and pop-up messages.</li> <li>4. Fixed bug: The scope does not save the "limit range" of slope trigger while powered off.</li> <li>5. Fixed bug: The waveform disappears from the Zoom window at the edge of screen with the timebase set to 500ns/div.</li> <li>6. Fixed bug: There is an issue with the Y cursor offset/scaling, probe with x10 setting. The Y1/Y2 cursor values do not match the Y voltage division/offset of the selected input channel.</li> <li>7. Fixed bug: Track cursor source set to track the waveform in the zoom window, but it tracks main window.</li> </ol>
2017/7/06	5.1.3.13	<ol style="list-style-type: none"> <li>1. Cursor values not correct if probe attenuation was not set to 1X.</li> <li>2. Removed channel input impedance of 50Ω.</li> <li>3. Added extern load setting to FFT menu. If using an external load, amplitudes can be shown in dBm.</li> <li>4. Repaired intermittent lock up after enabling decoding function.</li> <li>5. Optimized translation for German and English menus and pop messages.</li> <li>6. Removed Option label from UI.</li> <li>7. Corrected cursor measurements for active Zoom with FFT.</li> <li>8. Added telnet(port 5024) and open socket(port 5025) for LAN communication.</li> <li>9. Fixed blank zoom bug. With both channels at 2 ms/div, 7 Mpts, and a zoom of 500 ns/div, the zoom window would blank.</li> <li>10. Fixed decode threshold levels for 10X probe attenuation selection.</li> <li>11. Fixed average mode. After pressing [Run/Stop] to halt acquisition, the display changed to the last waveform, rather than maintaining the averaged waveform.</li> <li>12. Remain the final message for firmware update until rebooted.</li> </ol>

Date	Version	Revision
		<ul style="list-style-type: none"> <li>13. Fixed the issue with Chinese language setting after self-calibration.</li> <li>14. Fixed the CAN source bug. If the source selected was CANH or CANL, decode would not work correctly.</li> <li>15. Decreased waveform jitter with active measurements or math with horizontal delay out of the screen.</li> <li>16. Added progress information while saving CSV files.</li> <li>17. Fixed the Cycle RMS measurement does not update when the input signal changes.</li> <li>18. Keep "Print" picture type in accordance with the type selected from "Save/Recall".</li> <li>19. Fixed user file renaming of a previously saved file.</li> <li>20. Enabled decoding for time bases above 20ms/div.</li> <li>21. Disable menu if cursors, measurement and math is disabled.</li> <li>22. Finished updates to support EasyScopeX and Labview driver.</li> <li>23. Optimized channel self-calibration.</li> </ul>
2017/3/22	5.1.3.8	1. Initial formal release.

## Compatibility between Versions

Source Version	Object Version	Compatibility



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**Release Notes of the SDS1004X-E Follow**

Date	Version	Revision
2018/05/31	6.1.25R2	<ol style="list-style-type: none"> <li>1. Fixed the bug: Once the acquisition is stopped, the scope often can't find search events in other channels.</li> <li>2. Fixed the bug: In certain situations, the scope freezes when the Auto Setup button is pressed.</li> <li>3. Fixed the bug: The Pass/Fail mask is not correct at edge of screen left and right.</li> <li>4. Attenuation and invert indicator were added into the channel tab.</li> <li>5. Any arbitrary probe factor from 1e-6 to 1e6 can be set by universal knob.</li> <li>6. Got rid of suffix 'A' that stands for 'Acknowledge' from I2C decode.</li> <li>7. Fixed the bug: The dedicated window for long I2C data sometime lose data at right edge.</li> <li>8. Fixed the bug: The decoder sometimes does not show any info.</li> <li>9. Fixed the bug: After updating to the last firmware and OS version, the remote panel/control interface can no longer be connected.</li> </ol>
2018/05/02	6.1.25R1	<ol style="list-style-type: none"> <li>1. Increased XY mode wave fresh speed.</li> <li>2. Changed the displayed system information screen. From ADS version of 6.1.25R1, the info screen now shows 5 sections of software versions, including the OS version ID.</li> <li>3. Optimized remote webpage screen update rate. Requires both OS and ADS update which are located on the SIGLENT product webpage.</li> <li>4. Add virtual control panel for PC and mobile terminals.</li> <li>5. Added SCPI commands for Math waveforms (except FFT) and digital channel waveforms (ADS version of SLA1016 should be <math>\geq 8.1.9</math>).</li> <li>6. See the SIGLENT product webpage for software updates.</li> <li>7. Added Digital Channel cursor support.</li> <li>8. Optimized accuracy of horizontal measurement, especially when there are only a few samples in very small timebase.</li> <li>9. The 'Link to Trigger' menu modified to 'Copy setting'.</li> <li>10. Added ability to disable one direction of the full duplex encoders.</li> <li>11. Fixed the bug related to displaying long IC2 decoded packets.</li> <li>12. Fixed the bug: SDS1004X-E webpage update would</li> </ol>

Date	Version	Revision
		sometimes fail.
		13. Fixed the channel inversion bug when changing timebase from 1ms to 2ms.
		14. Fixed the bug: Unreadable digital system information.
2018/02/27	6.1.20R1	1. Added Bode Plot support for all of Siglent's SDG instruments. 2. Fixed a bug in 6.1.20 which maybe cause signal disappear after self-calibration for Channel.
2018/02/01	6.1.20	1. Add MSO/Logic functionality. 2. Added automatic vertical scale (volts/div) in Bode Plot mode. 3. Added USB WiFi support. 4. Optimized the WiFi GUI. 5. Automatic Roll mode selection will be disabled if manually disabled once. 6. Renamed Runt-Trigger in German. 7. Fixed a bug in the I2C triggering system of 7 bit Address& Data. 8. Improved Auto Setup function with 1K compensation output. 9. Improved waveform update when using sequence mode on long timebases. 10. Optimize self-calibration for channels.
2017/12/18	6.1.12R1	1. Modified Pass/Fail output pulse to 5us.
2017/11/16	6.1.12	1. Initial formal release of SDS1004X-E.

## Compatibility between Versions

Source Version	Object Version	Compatibility
6.1.25R1	6.1.25R2	Yes
6.1.20R1	6.1.25R2	Yes
6.1.20	6.1.25R2	Yes
6.1.12R1	6.1.25R2	Yes
6.1.12	6.1.25R2	Yes

## Update instructions

◆ Very important!

Because 6.1.20R1 fixed a bug with self-calibration for the each channel, the oscilloscope will need to perform a self-calibration once if the machine is updated to 6.1.20R1(or higher).