

## Revision History

Date	Version	Revision
2024/02/22	1.1.20R6	1. Fixed the bug: The average of measurement is mistake for 35M points
		2. Optimized the time of auto-setup
2020/06/28	1.1.19R5	1. Added support for the SAG1021I USB Isolated AWG Module Hardware
		2. Fixed the bug: Sometimes PNSU command returns invalid value (Need referring to the latest Program Guide)
		3. Added 9 data bits for UART decoding
		4. Fixed the bug of UART decoder with some special settings
		5. Increased baud rate of UART trigger from 5 Mbps to 20 Mbps
		6. Fixed the bug: The command 'WF? DAT2' returns error length of waveform when digital is enable
		7. Fixed the bug: CSV file of waveform has no indication of the trigger point in the data
		8. Fixed the bug: After repowering all FFT markers are on just one peak
		9. Fixed the bug: After repowering, signal level of CAN trigger can't be recalled
		10. Fixed a few SCPI Commands errors: MATH: CURSOR_VALUE? C3:INVERT_SET? is missing HISTORY_LIST? is missing DIGITAL:LOW8_SWICHT, typo in name C5:COUPLING? typo in name
		11. Fixed the Bode Plot bug: Sometime there isn't enough delay after the scope switches timebase values before it tries to take a measurement
		12. Fixed the bug: Matlab can't import 14 M Matlab waveform files
		13. Fixed the bug: 'WF?' command ignores the length set by 'WFSU' for digital
2019/08/21	1.1.19R2	1. Optimized communication between SDS2000X-E and SLA1016. This revision (and higher) requires the SLA1016 MUST be upgraded to 8.1.16 (or higher) first. Please take a look at 'Compatibility with SLA1016' at the end of the release notes.
		2. Optimized Bode Plot: Accuracy and Sensitivity Improvement, New Vari-level Mode for Testing Loop Response, Miscellaneous Function and UI Improvements.
		3. Optimized FFT UI: Added Peaks, Markers, and search within FFT.
		4. Optimize self-calibration for channels.
		5. Optimized accessing USB drive so that when a USB drive is moved to a computer, Windows will not prompt a restoration of the USB

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		drive.
		6. Optimize WIFI connection: 63 characters can now be used for a WPA2 PSK key.
		7. Added parity options of MARK/SPACE for UART of 9-bit Decode.
		8. Optimized behavior of the cursors (x-axis): Added a mode that the cursors remain at the set position on the waveform when changing time base.
		9. Added automatic reset to 0 for sample count for statistics after any timebase or voltage range changes.
		10. Fixed the bug: The audible beeper activation would affect the voltage waveform displayed for CH2.
		11. Fixed the bug of ROV measurement.
		12. Fixed the bug: Normal trigger can show more-than-one trigger event on the display at one time.
		13. Fixed the bug: Erratic triggering, randomly jumping between the first and the second edge of a signal.
		14. Fixed the bug: The acquire time of history is reset to zero if the time reach 1 hour and 11 minutes. The delta time is also wrong if the period is longer than 1 hour and 11 minutes.
		15. Fixed The SPI triggering issue: the 16-bit trigger wouldn't work for a gap >360 ns between the two 8-bit packets.
		16. Fixed the bug: Save/Recall setup of trigger and scale issue. (SalesForce ID: P-00199) (SalesForce ID: P-00200)
		17. Fixed the bug: Reading cursors by SCPI is not accuracy. (SalesForce ID: P-00201)
		18. Fixed the bug: In fine adjust mode, some scale such as 302 mV/DIV is in the wrong position.
		19. Fixed the bug: LIN decoder doesn't decode frames with zero-length response.
		20. Fixed the bug: If the Cursor Offset is not a multiple of zoom time base, the cursor will be replaced when zoomed.
		21. Fixed the bug: The measurements made with the cursor in Ref. Give wrong values for all the different probes of X1.
		22. Fixed the bug: Measures fails with GATE give completely random values in signals of low frequency.
2018/12/24	1.1.17R6	14. Fixed the bug: If the oscilloscope is switched off when the CH1 menu is active, it remains without a menu when switching on again.
2018/12/12	1.1.17R5	1. Initial formal release of SDS2000X-E

## Compatibility between Versions

Source Version	Object Version	Compatibility
1.1.20R3	1.1.20R6	Yes
1.1.20	1.1.20R6	Yes
1.1.19R5	1.1.20R6	Yes
1.1.19R2	1.1.20R6	Yes
1.1.17R6	1.1.20R6	Yes
1.1.17R5	1.1.20R6	Yes

## Compatibility with SLA1016

Source Version	Object Version	Compatibility
8.1.16	1.1.20R6	Yes
8.1.16	1.1.20R3	Yes
8.1.16	1.1.20	Yes
8.1.16	1.1.19R5	Yes
8.1.11	1.1.19R5	No
8.1.9	1.1.19R5	No
8.1.8	1.1.19R5	No

## Update instructions

- ◆ Very important!  
Optimized communication between SDS2000X-E and SLA1016. If the SDS2000X-E will be upgraded to 1.1.19R2 (or higher), the SLA1016 **MUST** be upgraded to 8.1.16 (or higher) first.
- ◆ Important!  
Because 1.1.19R2 optimized self-calibration for each channel. Please perform a self-calibration if the machine is updated to 1.1.19R2 (or higher).