Revision History

Date	Version	Revision
2015/11/20	V100R02B01D01P26	The first 2.0 release

SDS2000 2.0 firmware (V100R02B01D01Pxx) is an important update of the 1.0 firmware (V100R01B01D01Pxx). Based on 1.0 firmware, the 2.0 release added/improved some important features, and fixed some bugs. Refer to the table below for detailed information:

Item	Description
SPO (Super Phosphor Oscilloscope technique)	SPO1.0 -> SPO2.0. The main improvements are: • Increased the maximum Waveform Update Rate from 110,000 wfm/s to 140,000 wfm/s (in normal acquisition mode) • Increased the maximum Waveform length from 28Mpts to 70Mpts • Optimized the effect of waveform display at big time base • Accelerated the Single/Stop/Sequence/History processing by hardware • Optimized Date Preview to improve customer experience when changing the horizontal and vertical settings • Eliminated the obvious displayed trigger jitter at some time base
Eres mode (Enhanced Resolution mode)	Added Eres Mode under "Acquisition" and remove high resolution mode
Measurement	• Optimized measurement algorithm on some vertical parameters • Added gating measurement • Added some parameters, such as stdev, delay
Cursors	Optimized the operating experience
Digital Channels	Optimized operating experience
Minimum V/div	2mV/div -> 1mV/div
Defects & Bugs	Fixed the defects/bugs which exist in firmware 1.0: • Error code in CAN/IIC decoder • The digital channels get lost or work in the wrong way once the stop button is pressed or in single acquisition mode with decoding enabled • Somehow the timescale for the digital channels doesn't follow the timescale for the analog channels • Peak detect unusable • Press "Level" knob to set trigger level to 50%, then change the vertical div/v, trigger level changes • Skew between CH2 and CH3 in Zoom, Stop and Measurement mode

Item	Description
	• Cursors (X / vertical) not working in MSO mode without analog channels active
	• In normal mode, the waveform disappears when zoom is on
	• Zoom range deflects on the display
	• Trigger delay varies when the source is external trigger
	• Persistence is cleared when press RUN/STOP
	• The Auto Measure Readings update too quickly
	• Filename length Inconsistent between UI and manual
	• Averaged signal is gone in 'stop mode'
	• No measurements while decoding
	• Zooming in on a stream of messages by changing the timebase doesn't work and the zoom function is disabled
	• Protocol decoding doesn't work on digital channels
	• No zoom for digital signals
	• Peak-detect doesn't work in roll mode
	• SCPI over LAN doesn't work
	• Sometimes the colors of the 4 analog channels all turn yellow
	• Cursors are unusable in Zoom window
	• ...