

Revision History

Date	Version	Revision
2017/3/23	2.01.01.23R3	<ol style="list-style-type: none"> Allow 0 Hz for CH Frequency In MOD Modes PM, AM, DSB-AM, ASK, PSK Allow MOD frequency > CH Frequency In MOD Modes PM, DSB AM, ASK Allow DSB-AM, AM MOD Modes In TrueArb Mode Up Followed by Down Sweep Mode is Supported in Linear Sweep (No Change for Log Sweep) Added ARB waveform name to display, allowing user to know what Arb waveform is loaded Fixed some bugs <ol style="list-style-type: none"> Arb Waveforms In DDS Mode Have One (Small) Glitch Per Cycle Built in Ramp waveform has a flat spot issue at the rising slope zero crossing right at the SYNC pulse. Power Up Last Does Not Remember SRate/Frequency Setting MOD Type = DSB AM Has Amplitude Issues
2016/9/30	2.01.01.22R5	<ol style="list-style-type: none"> Permit setting the frequency to 0. 0 Hz would mean that the DDS accumulated phase word would be held/not change with time. Fixed some bugs <ol style="list-style-type: none"> Single Channel AM Modulation Output Amplitude Is 9.3% Low Manual trigger can not trigger both channels at the same time SW bug regarding the modulation with noise Frequency Coupling/Phase Lock Does Not Work in TrueArb Instrument Powers Up With Wrong Waveforms TrueArb mode CH Coupling Bug When Entering Samples/Sec Display graphic error for displayed wave shape Can not save the last state after the update
2016/6/16	2.01.01.21R2	<ol style="list-style-type: none"> Added Waveform Combination function, to support combining ch1 and ch2 from internal to generate complex signals such as sine + noise and two-tone. The set path: Utility Output Setup Wave Combine Added mode selection: "Pase-Locked" and "Independent" . In "Pase-Locked" mode the generator resets both channels every time the frequency is changed to maintain synchronization automatically. In

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		<p>"Independent" mode the generator will not reset any channel when the frequency is changed; the phase difference between channels is random.</p> <p>The set path: Utility mode</p> <p>3. Fixed some bugs</p> <ul style="list-style-type: none"> i) Can not delete files with illegal characters j) In burst mode, press the soft key for cycles, it changes to infinite right off the bat k) External modulation input inverted compared to convention l) Can not remember the clock source setting m) Some unexpected glitches when enabling the output or change the parameters
2016/1/16	2.01.01.17R5	<p>1. Added statistic function in counter mode</p> <p>2. Supported using method 2 from our "generating multphase waveforms" application note (refer to http://www.siglentamerica.com/prodcut-pxzl.aspx?id=90&tid=16&T=2) to synchronize 2 units of SDG2000X</p> <p>3. Fixed some bugs</p> <p>n) A bug in file system could cause the generator never startup</p> <ul style="list-style-type: none"> o) DHCP does not run at power up p) Channel lock phase can be wrong in modulation sometimes q) Error in calculation of frequency deviation in counter mode r) Instrument does not allow CH1 and CH2 to both use the external input for the modulation source simultaneously in tracking mode s) Downward compatibility of .xml state file t) Unable to delete files with uncommon character(s) in their names
2015/11/30	2.01.01.16R2	<p>1. Added phase deviation option in channel tracking mode</p> <p>2. Optimized the User Interface, including save/recall, arb, etc.</p> <p>3. Supported long pressing the Output key to switch the load between 50ohm and HiZ</p> <p>4. Supported to autosave the imported binary file (*.bin).</p> <p>5. Fixed some bugs</p> <ul style="list-style-type: none"> a) Unexpected change on Phase difference between channels in sweep mode when switching the style between linear and log b) Channels not aligned when the frequency of one

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		channel is integral multiple of another
		c) Wrong sweep profile when using manual trigger
		d) Unexpected reset on output when setting illegal parameters
		e) Unstable waveform at the beginning of after enabling the output
		f) Display error when switching between TrueArb and DDS in Arb mode
		g) Frequency deviation display problem in Counter mode
		h) Wrong project name in system information
		i) When pressing the waveform button, the parameter button flashes
		j) Unable to set variable load value without touch screen
		k) Unexpected digit jumping when setting parameters with the knob
		l) Set CH2 to invert and then do a system -> default, the option will return to "normal" , but the signal will stay inverted.
2015/9/30	2.01.01.15R2	<ol style="list-style-type: none"> 1. Supported adjustable noise bandwidth 2. Supported harmonic 3. Added some built-in arbs, so the number of arb types increased to 196 4. Fixed some bugs
2015/8/27	2.01.01.12R1	The first formal release

Compatibility between Versions

Source Version	Object Version	Compatibility
2.01.01.22R5	2.01.01.23R3	Tested.
2.01.01.21R2	2.01.01.23R3	Tested.
2.01.01.17R5	2.01.01.23R3	Tested.
2.01.01.16R2	2.01.01.23R3	Tested.
2.01.01.15R2	2.01.01.23R3	Tested.
2.01.01.12R1	2.01.01.23R3	Tested.

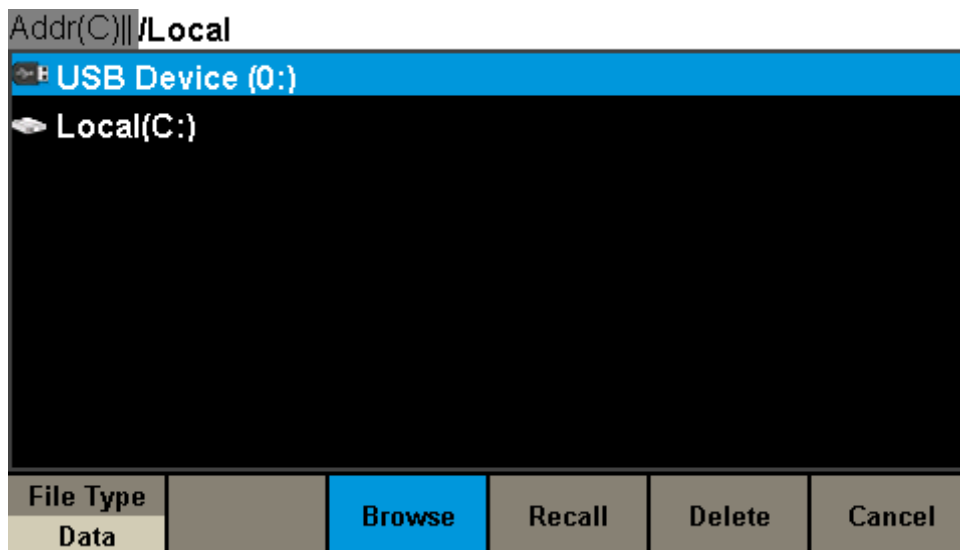
Update Instructions

WARNING: DO NOT shut off the instrument until the update is completed.

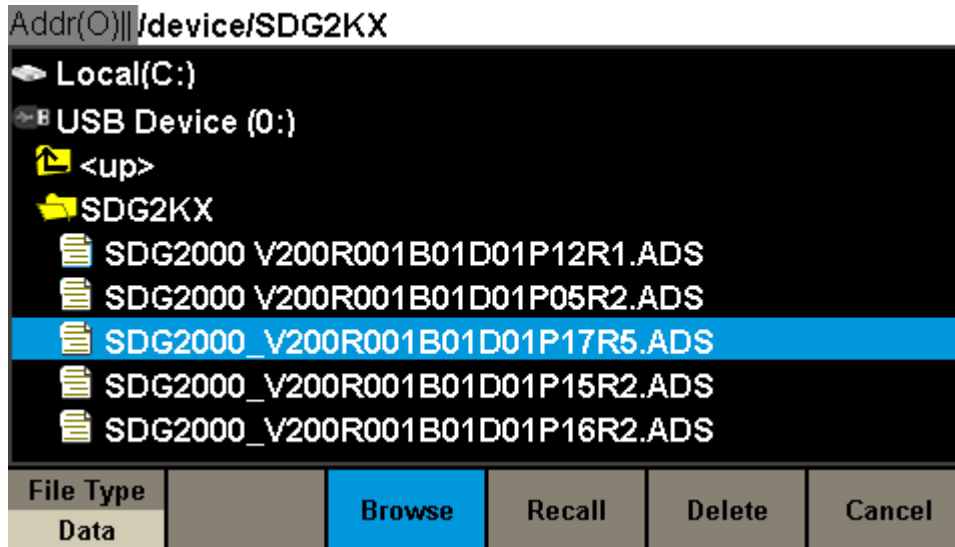
1. Copy the update file (*.ads) to a FLASH type U-disk, and then connect the U-disk to the USB host port of the instrument.



2. Press the **Utility** key on the front panel, and then softkey "System ->Page 1/2 -> Firmware Update", to enter the interface of the file browser.



3. Select "USB Device" thru the knob on the front panel, press "Browse", and then select the correct ads file using the knob



- Press “Recall” to start the update. A progress bar is displayed during the update. After the update is completed, the generator will restart automatically.

WARNING: DO NOT shut off the instrument until the update is completed.