

Revision History

Date	Version	Revision
		Solve the problem of output desynchronization when
		modulation depth/phase deviation/frequency deviation
		is changed in channel tracking mode with AM/PM/FM
		modulation
		2. Solve the problem of abnormal output waveform when
4/18/2024	2.01.01.38R4	switching back to the internal clock when the external
		reference clock is abnormal.
		Solve the problem of occasional abnormal output
		waveform after power on
		4. Add the function of long pressing store/recall to save
		screenshots
		Solve the problem of slow USB drive detection during
		startup 2. Solve the problem of outputting abnormal pulses during
7/20/2023	2.01.01.37R8	Solve the problem of outputting abnormal pulses during burst mode
1/20/2023	2.01.01.3710	Add instructions for saving and reading status (XML)
		files
		Add the instruction to clear the statistics of the counter
		Compatible with Rev.G hardware
2/4/2022	0.04.04.07DC	2. Fix the bug that the system does not respond when
3/4/2023	2.01.01.37R6	there is no operation for a long time after the counter is
		turned on
8/31/2022	2.01.01.37R3	Compatible with Rev.F hardware
		4. Support trig dual channel separated when use mannul
		trigger.
		5. Support using another channel as the modulation
		Source
		Support setting the output frequency after the completion of sweep
		7. Counter add fast measurement mode
		Change the square waveform data used in square FM
		modulation
12/16/2019	2.01.01.35R3B2	Optimized debounce of the front panel buttons.
9/10/2019	2.01.01.35R3B1	Changed the amplitude strategy of AM modulation: The
		carrier stays fixed at the amplitude, regardless of the
		modulation setting.
		2. Increased the upper limit of Harmonics number from 10
		to 16.



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		Supported Multi-Device Synchronization.
		4. Supported Up followed by Down Sweep mode in Linear
		sweep (no change for Log sweep).
		5. Added an icon to indicate clock source is internal or
		external.
		Internal: External:
		External and the clock is lost:
		6. Changed the clock switch strategy: When the clock
		source is set to External and no actual external clock
		signal is being received, the clock source will not switch
		to Internal automatically but the clock icon will
		indicate that external clock is lost
		7. Supported specifying Arb type by remote control when
		the modulating waveform is Arb.
		8. Optimized the UI of selecting built-in arbs9. Supported changing the unit of amplitude without any
		amplitude change by long pressing the "Amplitude"
		softkey.
		10. Added "User" option under "PowerOn Setting".
		11. Added "Normal" as a new UI color style.
		12. Added memory space information in Store/Recall UI.
		13. Optimized response of the universal knob
		14. Added indicator for double function of the soft keys
		Offset LowLevel => Offset LowLevel
		 Removed the warning message when parameter is set to a value beyond the limit
		16. Fixed several bugs
		a) [2017/04/07-92573] Digit changes when setting
		delay of Pulse by the knob
		b) Amplitude unit "dBm" is not remembered after a
-		reboot
2/28/2018	2.01.01.23R8	Optimized calibration and PV process on the production line.
8/29/2017	2.01.01.23R7	Supported system recovery from U-disk.
		Fixed a bug which may cause the generator report a
		false over voltage alarm when start-up.
3/23/2017	2.01.01.23R3	Allow 0 Hz for CH Frequency In MOD Modes PM, AM,
		DSB-AM, ASK, PSK
		2. Allow MOD frequency > CH Frequency In MOD Modes
		PM, DSB AM, ASK



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		3.	Allow DSB-AM, AM MOD Modes In TrueArb Mode
		4.	Up Followed by Down Sweep Mode is Supported in
			Linear Sweep (No Change for Log Sweep)
		5.	Added ARB waveform name to display, allowing user to
			know what Arb waveform is loaded
		6.	Fixed some bugs
			a) Arb Waveforms In DDS Mode Have One (Small)
			Glitch Per Cycle
			b) Built in Ramp waveform has a flat spot issue at the
			rising slope zero crossing right at the SYNC pulse.
			c) Power Up Last Does Not Remember
			SRate/Frequency Setting
			d) MOD Type = DSB AM Has Amplitude Issues
9/30/2016	2.01.01.22R5	1.	Permit setting the frequency to 0. 0 Hz would mean
			that the DDS accumulated phase word would be
			held/not change with time.
		2.	Fixed some bugs
			a) Single Channel AM Modulation Output Amplitude
			Is 9.3% Low
			b) Manual trigger can not trigger both channels at the
			same time
			c) SW bug regarding the modulation with noise
			d) Frequency Coupling/Phase Lock Does Not Work in
			TrueArb
			e) Instrument Powers Up With Wrong Waveforms
			f) TrueArb mode CH Coupling Bug When Entering
			Samples/Sec
			g) Display graphic error for displayed wave shape
			h) Can not save the last state after the update
6/16/2016	2.01.01.21R2	1.	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
		2.	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
			"Independent" mode the generator will not reset any
			channel when the frequency is changed; the phase
			difference between channels is random.
			The set path: Utility mode



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		3.	Fixed some bugs
			a) Can not delete files with illegal characters
			b) In burst mode, press the soft key for cycles, it
			changes to infinite right off the bat
			c) External modulation input inverted compared to
			convention
			d) Can not remember the clock source setting
			e) Some unexpected glitches when enabling the
			output or change the parameters
1/16/2016	2.01.01.17R5	1.	Added statistic function in counter mode
	NOTE: After being	2.	Supported using method 2 from our "generating
	updated to this		mulitphase waveforms" application note (refer to
	release, the		http://www.siglentamerica.com/prodcut-pxzl.aspx?id=9
	generator cannot		0&tid=16&T=2) to synchronize 2 units of SDG2000X
	be backward to	3.	Fixed some bugs
	previous releases		a) A bug in file system could cause the generator
	any more		never startup
			b) DHCP does not run at power up
			c) Channel lock phase can be wrong in modulation
			sometimes
			d) Error in calculation of frequency deviation in
			counter mode
			e) Instrument does not allow CH1 and CH2 to both
			use the external input for the modulation source
			simultaneously in tracking mode
			f) Downward compatibility of .xml state file
			g) Unable to delete files with uncommon character(s) in their names
11/30/2015	2.01.01.16R2	1.	Added phase deviation option in channel tracking mode
		2.	Optimized the User Interface, including save/recall, arb,
			etc.
		3.	Supported long pressing the Output key to switch the
			load between 50ohm and HiZ
		4.	Supported to autosave the imported binary file (*.bin).
		5.	Fixed some bugs
			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
			channel is integral multiple of another
			c) Wrong sweep profile when using manual trigger
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		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 		
		 Set CH2 to invert and then do a system -> default, the option will return to "normal", but the signal will stay inverted. 		
9/30/2015	2.01.01.15R2	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		
8/27/2015	2.01.01.12R1	The first formal release		



Compatibility between Versions

Source Version	Object Version	Compatibility
2.01.01.37R8	2.01.01.38R4	Tested.
2.01.01.37R6	2.01.01.37R8	Tested.
2.01.01.37R3	2.01.01.37R6	Tested.
2.01.01.35R3B2	2.01.01.37R3	Tested.
2.01.01.35R3B1	2.01.01.35R3B2	Tested.
2.01.01.23R8	2.01.01.35R3B1	Tested.
2.01.01.23R7	2.01.01.35R3B1	Tested.
2.01.01.23R7	2.01.01.23R8	Tested.
2.01.01.23R5	2.01.01.23R8	Tested.
2.01.01.23R3	2.01.01.23R8	Tested.
2.01.01.22R5	2.01.01.23R8	Tested.
2.01.01.21R2	2.01.01.23R8	Tested.
2.01.01.17R5	2.01.01.23R8	Tested.
2.01.01.16R2	2.01.01.23R8	Not compatible. Please update to 2.01.01.17R5 at first
2.01.01.15R2	2.01.01.23R8	Not compatible. Please update to 2.01.01.17R5 at first
2.01.01.12R1	2.01.01.23R8	Not compatible. Please update to 2.01.01.17R5 at first



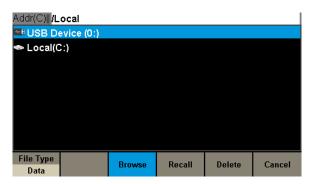
Update Instructions

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

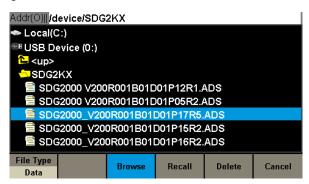
1. Copy the update file (*.ads) to a FLASH type U-disk, and then connect the U-disk to the USB host port of the instrument.



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



4. 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.