Revision History

Date	Version	Revision
11/6/2022	6.01.01.36R3	1. Control the IQ output amplitude to avoid distortion
		2. Optimize phase noise when using external reference clock
		3. Fixed bug in FM modulation on square waveform
		4. Fixed bug that the output amplitude of square wave, pulse wave and PRBS is smaller than the set value
		5. Fixed bug that VPP was still displayed on the UI when control the output amplitude in dBm by the SCPI command
		6. Fixed the problem of abnormal pulse output when pressing output in burst mode
		7. Resolve potential key and touch non response issues
		8. Fixed the bug that 128QAM cannot be demodulated
2/4/2021	6.01.01.36	1. Allowed one channel to modulate the other
		2. Supported Burst in TrueArb mode
		3. Supported Burst Counter in Burst mode so the number of burst trains can be set to > 1 when trigger source = external or manual
		4. Added an option to let the SDG start with activated outputs
		5. Added 50 ohm output impedance text in the UI
		6. Able to remember the digit of a parameter that had been modified
		7. Fixed several bugs:
		a) DDS interpolation bug
		b) Switching on/off output causes random phase deviation between channels in Track mode
		c) Incorrect square/pulse waveform initialization in some cases
		d) Unable to store the level settings for noise
		e) Unable to recognize the command MODE PHASE-LOCKED
		f) Freezing issue when being written a 20MB long file with the EasyWaveX
		g) The setting "BANDSET" with Waveform = NOISE leads to inconsistent behavior on the Noise Bandwidth of the output signal; The real-time noise bandwidth on channel 2 is changed if an AM sine modulation is switched on channel 1
		h) Unable to install the IQ option before 30 trials run out
9/17/2019	6.01.01.35R5B1	1. Changed the upper limit of carrier frequency (sine) in Burst mode from 300 MHz to 500 MHz
		2. Added some missing SCPI commands
		3. Fixed several bugs:

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		a) Messed up signal after switching from 500 MHz sine to square in independent mode
		b) Glitches when outputting pulses under certain circumstances in independent mode
5/6/2019	6.01.01.33R2	1. Removed the warning message when parameter is set to a value beyond the limit
		2. Supported to copy/paste/delete folder in Store/Recall file manager
		3. Optimized initialization time when the waveform is switched between IQ and other waveforms
		4. Supported phase compensation in IQ mode
		5. Fixed several bugs:
		a) [2018/09/14-924144, 2018/09/14-937446] Signals get interrupted upon timing-related change of the settings in Independent mode
		b) Anomaly on square/pulse waveform with some setting
		c) [2018/11/06-92208] Anomaly on arb waveform when toggle the "ArbMode" from DDS to TrueArb and back to DDS in Independent mode
7/20/2018	6.01.01.29R10	1. Optimized TrueArb algorithm and added 3 types of interpolation: sinc, sinc27 and sinc13
		2. Optimized jitter performance of Square and Pulse
		3. Optimized algorithm of Noise generating so the bandwidth setting lower limit of Noise optimized from 80 MHz to 1 mHz
		4. [2017/12/22-174663] 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
		5. [2017/12/22-174663] Changed default state of 10 MHz Out to "Disable"
		6. Added Slave Delay option in Multi-Device Synchronization function
		7. Added indicator for double function of the soft keys
		8. Fixed the following bugs:
		a) Crashes when downloading 20 Mpts waveform data from the EasyWave program
		b) Inaccurate burst delay
		c) In TrueArb mode enabling AM with large amplitude may

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		trigger OVP
		d) Switching the waveform from IQ to sine with large amplitude may trigger OVP
		e) Switching off the output on the SDG6kX only drops the output level by approx 20 dB but does not completely switch it off
11/10/2017	6.01.01.28R1	The first formal release

Compatibility between Versions

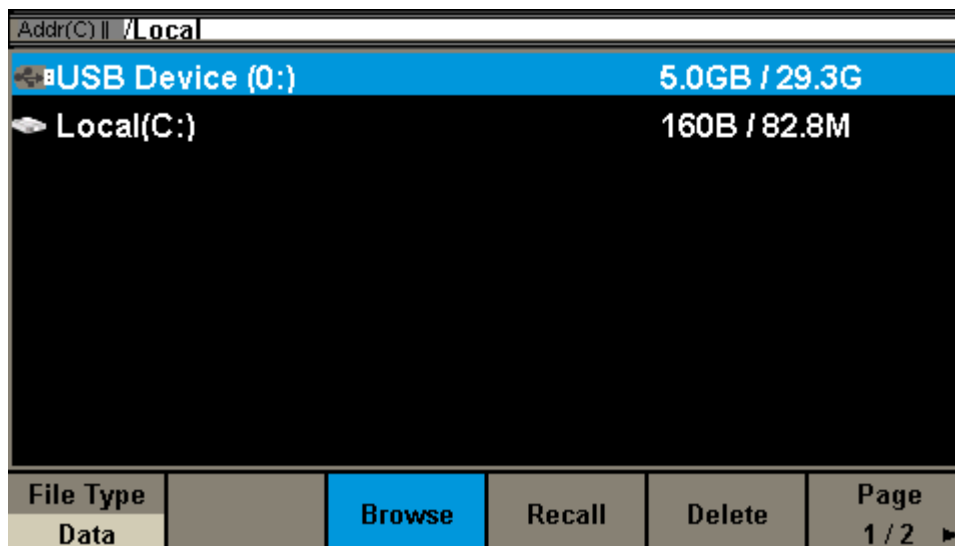| Source Version	Object Version	Compatibility
6.01.01.35R5B1	6.01.01.36	Tested
6.01.01.33R2	6.01.01.36	Tested
6.01.01.33R2	6.01.01.35R5B1	Tested
6.01.01.29R10	6.01.01.35R5B1	Tested
6.01.01.29R10	6.01.01.33R2	Tested
6.01.01.28R1	6.01.01.33R2	Tested

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.
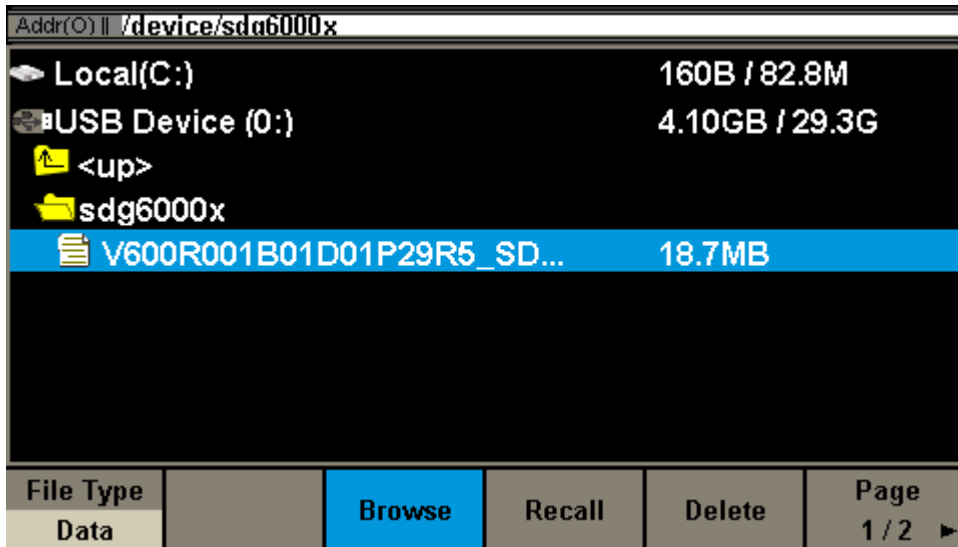

2. Press the Utility key on the front panel, and then softkey "System ->Page 1/2 -> Firmware Update", to enter the interface of the file browser.

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

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.