Revision History

Version	Revision
V1.3.9.10 2024/1/30	1. This firmware must be upgraded from V1.2.8.1 or later, V2.X.X.X versions are not supported for upgrading this firmware. If your SSA3000X has an earlier version, please update to V1.2.8.1 first and then proceed to update to the latest version. 2. Fixed the error in setting RBW in EasySpectrum when using emi filter. 3. Optimize the settable range of Ref Level. When the maximum value of Correction data that is turned on is positive, the maximum settable Ref Level is correspondingly increased by an equal value. 4. Fixed TOI measurement marked error. 5. Fixed the issue of possible crash when using the scpi command [:SENSe]:CORRection:CSET#:DATA? to read Correction data. 6. Optimize the use of command :DISPlay:WINDow:TRACe:Y[:SCALe]:RLEVel to set Ref Level. If no unit is specified, the current amplitude unit is used as the unit. 7. Fixed the issue where the command :CALCulate:MARKer#:Y? may read Marker amplitude value incorrectly when using Video Trigger. 8. Add Peak to Center command :CALCulate:MARKer#:MAXimum:CENTer
V1.3.9.8 2021/7/20	1. This firmware must be upgraded from V1.2.8.1 or later. If your SSA3000X has an earlier version, please update to V1.2.8.1 first and then proceed to update to the latest version. 2. Update the measurement result of MARKER immediately when changing its parameters, instead of after the trace sweep ends. 3. Improve the stability of TG
V1.3.9.7 2021/1/30	1. This firmware must be upgraded from V1.2.8.1 or later. If your SSA3000X has an earlier version, please update to V1.2.8.1 first and then proceed to update to the latest version. 2. Fixed the LOG scale sweep time and display error 3. Fixed the trace file .trc load and display error 4. Improve the stability of TG 5. Add peak excursion require command :CALCulate:MARKer:PEAK:EXCursion? Add sweep state require command :TRACe:SWEep:STATe? Add N dB Bandwidth left and right frequency require command :CALCulate:MARKer*:BANDwidth:RLEFt? :CALCulate:MARKer*:BANDwidth:RRIGht?
V1.3.9.6 2020/7/20	1. This firmware must be upgraded from V1.2.8.1 or later. If your SSA3000X has an earlier version, please update to V1.2.8.1 first and then proceed to update to the latest version.

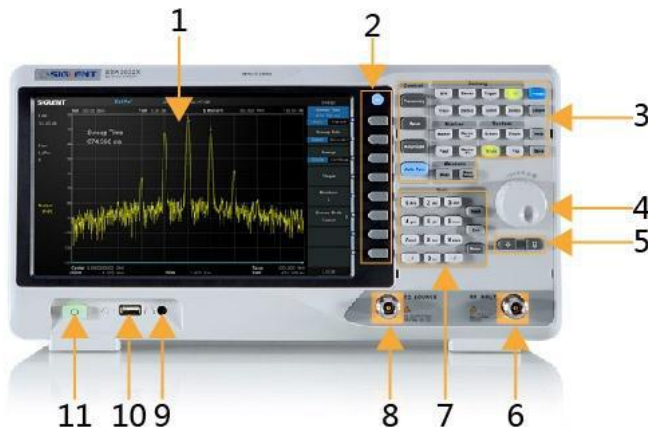| Version	Revision
	2. Fixed the problem unit in TG and the UNCAL condition
	3. Fixed the AVG detector in frequency LOG scale
	4. Fixed the display error with long file name
	5. Fixed some SCPI commands
	6. Fixed the beeper switch
	7. Fixed the .cor file error when recalling it
	8. Add Limit mask offset in frequency and amplitude
V1.2.9.3a 2019/5/27	1. This firmware must be upgraded from V1.2.8.1 or later. If your SSA3000X has an earlier version, please update to V1.2.8.1 first and then proceed to update to the latest version. 2. Fixed the OBW - Transmit Freq Error bug 3. Fixed the LOG scale –Correction display error 4. Fixed some marker and display text bugs 5. Add "UNCAL" warning when setting changed after TG normalization 6. Add "Select All" in File-Operate menu 7. Add peak table "Sort By Freq/Ampt" menu in Peak-Search Config 8. Optimize Freq Offset to 10 GHz, Scale/Div to 0.1 dB 9. Optimize several SCPI commands, such as *OPC?, ESR?, etc. 10. Optimize .sta file limit parameters, Optimize .csv file parameters
V1.2.9.2a 2018/11/1	1. This firmware must be upgraded from V1.2.8.1 or later. If your SSA3000X has an earlier version, please update to V1.2.8.1 first and then proceed to update to the latest version. 2. Add trigger slope in Video Trigger 3. Optimize Trace Math, and SCPI command 4. Optimize the noise during Demod in zero span 5. Optimize the screen text display 6. Optimize the Auto Tune 7. Optimize the log scale in CSV file
V1.2.9.1 2018/04/10	1. This firmware must be upgraded from V1.2.8.1 or later. If your SSA3000X has an earlier version, please update to V1.2.8.1 first and then proceed to update to the latest version. 2. Fixed bugs on peak search and next peak. 3. Optimize SCPI commands for peak table, screenshot, etc. 4. Optimize the LOG X-scale for EMI test. 5. Optimize the Quasi-Peak detector accuracy for EMI test.
v1.2.8.5a 2017/9/20	1. This firmware must be upgraded from V1.2.8.1 or later. If your SSA3000X has an earlier version, please update to V1.2.8.1 first and then proceed to update to the latest version. 2. Fixed v1.2.8.5 bugs on Refl Mode. 3. Fixed v1.2.8.5 bugs on language and file.
v1.2.8.5 2017/9/10	1. This firmware must be upgraded from V1.2.8.1 or later. If your SSA3000X has an earlier version, please update to V1.2.8.1 first and then proceed to update to the latest version.

Version	Revision
	2. Add 1 Hz/3 Hz RBW function.
	3. Fixed some bugs on SCPI.
	4. Fixed some bugs on sweep, Log scale, and display.
V1.2.8.3 2017/6/10	1. This firmware must be upgraded from V1.2.8.1 or later. If your SSA3000X has an earlier version, please update to V1.2.8.1 first and then proceed to update to the latest version.
	2. Improved the stability of sweep and avg detect.
	3. Fixed some bugs on sweep, frequncy counter and Log-Log scale.
	4. Fixed some bugs on SCPI and the AMK option.
V1.2.8.2 2017/2/14	1. This firmware must be upgraded from V1.2.8.1 or later. If your SSA3000X has an earlier version, please update to V1.2.8.1 first and then proceed to update to the latest version.
	2. Add socket/telnet-scpi, you can operate remote control through LAN port without NI-VISA installed. Please see SSA3000X 's Programming Guide for more details.
	3. Change two limit lines in different colours.
	4. When quit from TG, stay in "Auto" sweep.
	5. Lower some spurs when FFT.
	6. Improve the stability.
V1.2.8.1 2016/11/3	1. Add "PNG " file type for screenshot.
	2. Support TG in RBW less than 30 kHz.
	3. Modify default TG output power, -20 dBm in spectrum ananlyzer mode and 0 dBm in reflection measure mode, and some other TG issues.
	4. Updating the format of "LIM " file. After this firmware , the old limit files will not be supported. You can recreate them through "EasySpectrum" free software easily.
	5. After this firmware, do not support downgrade operation.
100.01.02.07.07 2016/6/29	1. Add "amplitude correction editing functions"
	2. Add "input impedance switching function between 50Ω and 75Ω"
	3. Add "jpg format screenshot function"
	4. Add "Reset & Clear function"
	5. Separate the "File Type" into "View Type" and "Save Type" in the file menu.
100.01.02.07.06 2016/5/13	1. Fixed "error importing calibration files into machine."
100.01.02.07.05 2016/4/19	1. Add USB-GPIB connect function
	2. Add boot reset function
	3. Fixed "Spectrum Monitor function can be opened when using normalize or reflection meas"
100.01.02.07.03 2016/3/30	1. Fixed "button does not respond after self test"
100.01.02.07.02 2016/3/15	1. Fixed " the device can not start up when start option is user configuration"
	2. Fixed " the problem of frequency count large errors"
	3. Fixed "the device can not hunt signal when setting zero span occasionally"
100.01.02.07.01 2016/2/29	1. Add "X log axis"
	2. Add "license inputbox"

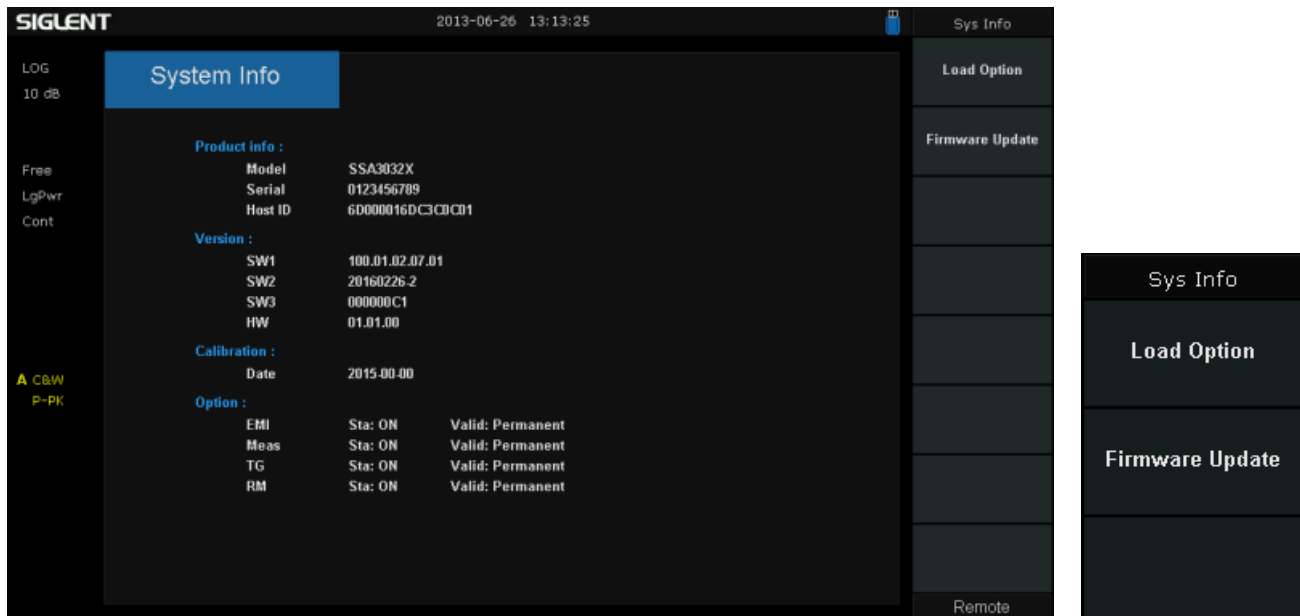| Version	Revision
	3.　Add "file save alert dialog"
100.01.02.07.00 2016/1/15	1.　Add "EMI function " 2.　File system upgrade

Update Instructions

Note: During the updating, do not cut off the power or pull out the U-disk and if the upgrade process gets stuck, please contact SIGLENT immediately at support@siglent.com.
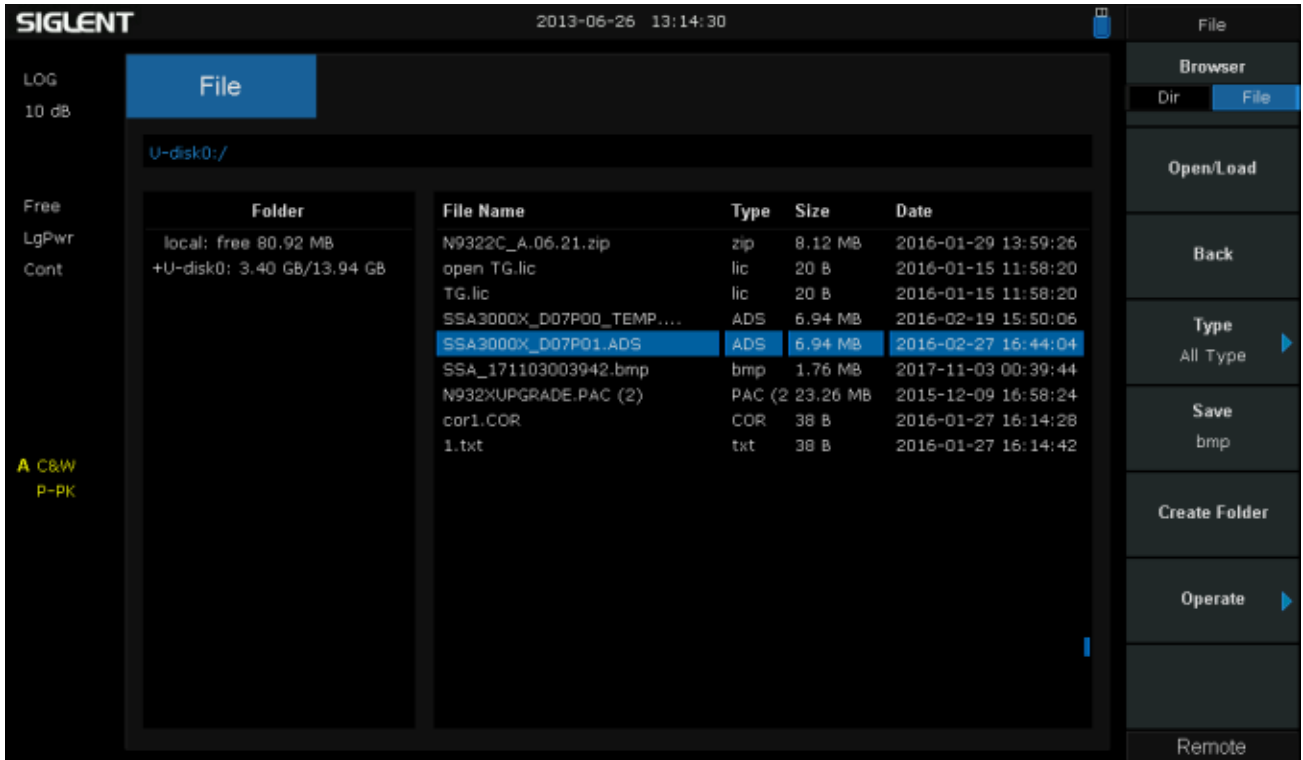
1. Copy the update file (*.ads) to a FLASH type U-disk, and then connect the U-disk to the USB host port(10) of the instrument.

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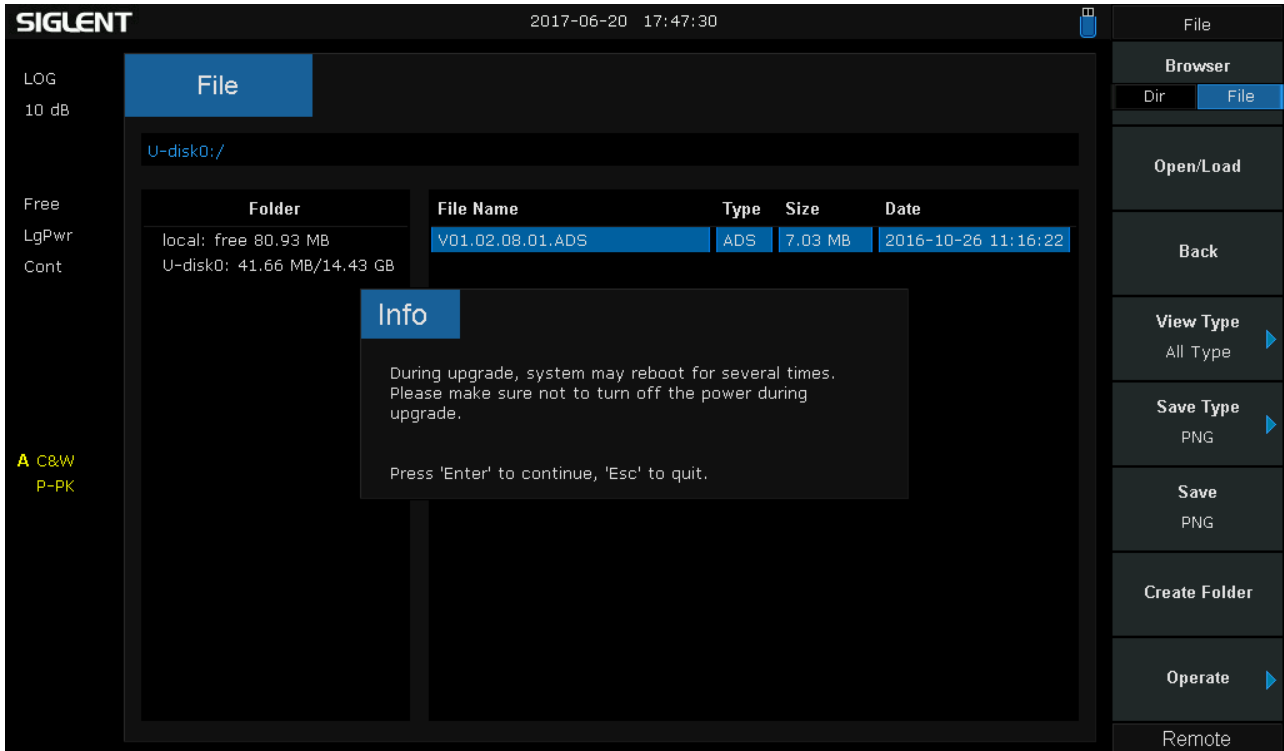

3. Select " U-disk" thru the knob on the front panel, press "Browser", and then select the correct ADS file.

4. Press "Open/Load" to start the update. A progress bar is displayed during the update. It will take about 1~2 minutes.
   When updating complete, the spectrum analyzer will restart automatically.

5. After the spectrum analyzer restarted, check the version information in sys info.