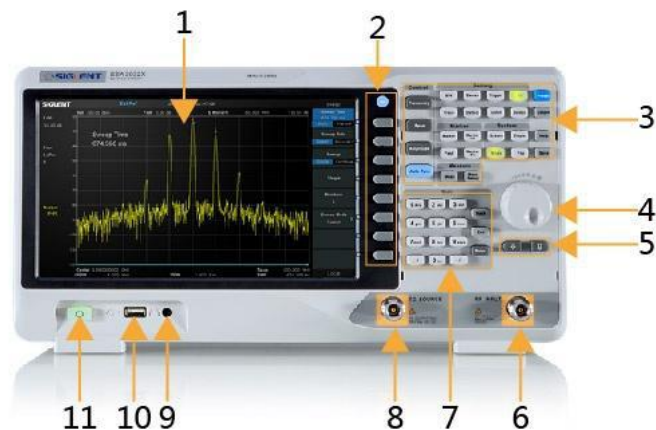## Revision History

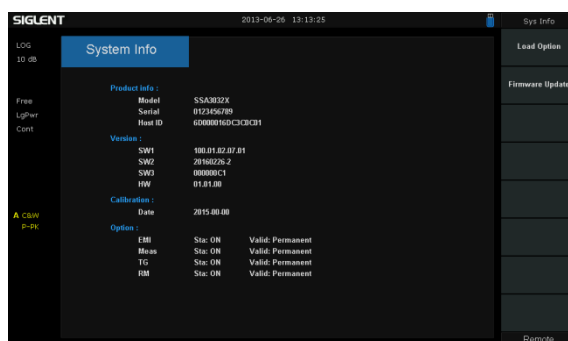| Version/Release Date	Revision
V1.2.8.3 2017/6/10	1. This firmware update will only work with instruments that have installed FW version V1.2.8.1 or later. If your SSA3000X has an earlier version, please first update to V1.2.8.1 and then proceed to update to the latest version. 2. Improves the stability of sweep and avg detect. 3. Fixes existing bugs on sweep, frequency counter and Log-Log scale. 4. Fixes existing bugs on SCPI and the AMK option.
V1.2.8.2 2017/2/14	1. This firmware update will only work with instruments that have installed FW version V1.2.8.1 or later. If your SSA3000X has an earlier version, please first update to V1.2.8.1 and then proceed to update to the latest version. 2. Adds socket/telnet-scpi, The instrument can be operated by remote control through LAN port without NI-VISA installed. Please see SSA3000X 's Programming Guide for more details. 3. Changes two limit lines to be different colors. 4. When exiting from TG, now remains in "Auto" sweep. 5. Lowers spurs when operating FFT. 6. Improves stability.
V1.2.8.1 2016/11/3	1. Adds "PNG " file type for screenshot. 2. Supports TG when RBW set to less than 30 kHz. 3. Modify default TG output power, -20 dBm in spectrum analyzer mode and 0 dBm in reflection measure mode. Resolved other TG issues. 4. Updating the format of "LIM " file. After this firmware , the old limit files will not be supported. Old LIM type files can be recreated easily using "EasySpectrum" software. 5. After installing this firmware, the instruments firmware cannot be downgraded.
100.01.02.07.07 2016/6/29	1. Adds amplitude correction editing functions 2. Adds selectable impedance switching function; 50Ω and 75Ω 3. Adds jpg format screenshot function 4. Adds Reset & Clear functions 5. Separates the "File Type" into "View Type" and "Save Type" in the file menu.
100.01.02.07.06 2016/5/13	1. Repairs Error importing calibration files into machine
100.01.02.07.05 2016/4/19	1. Adds USB-GPIB connect function 2. Adds boot reset function 3. Spectrum Monitor function can be opened when using normalize or reflection meas"
100.01.02.07.03	1. Fixes condition where button does not respond after self test"

Version/Release Date	Revision
2016/3/30	
100.01.02.07.02 2016/3/15	1. Fixes the condition where the device can not start up when start option is in user configuration" 2. Fixes the frequency counter errors 3. Fixes problem with the device occasionally not finding signals when setting zero span
100.01.02.07.01 2016/2/29	1. Adds logarithmic X-axis 2. Adds license input box 3. Fixes "File save alert" prompt error
100.01.02.07.00 2016/1/15	1. Adds EMI function 2. File system upgrade

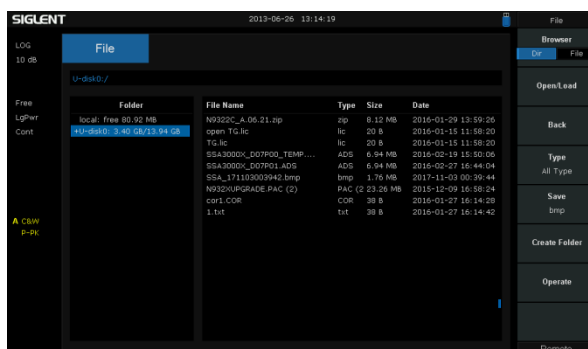| Version/Release Date	Revision

Update Instructions

1. Copy the update file (*.ads) to a FLASH type U-disk, and then insert the U-disk to the USB host port (10) of the instrument.
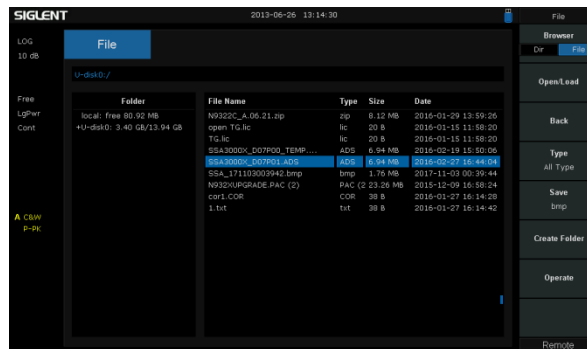

2. Press the System key on the front panel, and then softkey "System->System Info-> Firmware Update", to enter the interface of the file browser
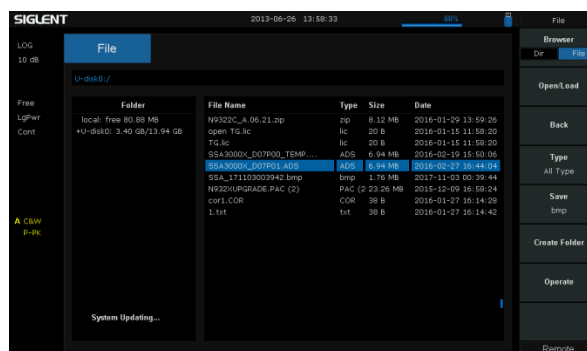

3. Select " U-disk" using the knob on the front panel. Press "Browser" and then select the correct ADS file using the knob

4. Press "Open/Load" to start the update. A progress bar is displayed during the update. When updating is complete, the spectrum analyzer will restart automatically.

WARNING:

DO NOT turn off the instrument during updating