



# SSG6082A-V Firmware Revision Record and Upgrade Instructions



# 1 Revision Record

Date	Version	Revision
2026/6/15	1.0.0.7.6	<ol style="list-style-type: none"> <li>1. Optimize vector signal quality</li> <li>2. HW Information displays the hardware serial number.</li> <li>3. Remove "None" from the Custom filter type.</li> <li>4. Added filter settings to ARB waveform settings.</li> <li>5. Remove filter settings in ARB settings.</li> <li>6. Added armed auto mode to ARB trigger.</li> <li>7. The maximum number of multitone has been increased to 25001.</li> <li>8. Supports playback of GSM, DAB, and WCDMA protocol waveforms.</li> <li>9. Added automatic startup for SMB server and supports setting SMB server password.</li> <li>10. Fixed several bugs <ol style="list-style-type: none"> <li>a) SCPI modulator attenuation type display instruction error.</li> <li>b) Switching LF on the LF source page will not refresh the LF icon at the top.</li> <li>c) TXT file playback error.</li> <li>d) When playing txt and wdbin files, a local folder is generated in the root directory.</li> </ol> </li> </ol>
2025/11/19	1.0.0.7.4	<ol style="list-style-type: none"> <li>1. Long press or right-click to display SCPI commands.</li> <li>2. Supports SMB file transfer protocol.</li> <li>3. A pop-up window will be added when there is a function conflict, allowing users to choose to confirm or cancel.</li> <li>4. Fixed several bugs <ol style="list-style-type: none"> <li>a) Inaccurate RF output power when ASK modulation is enabled.</li> <li>b) Abnormal waveform sequence markers.</li> <li>c) User frequency response compensation switch not enabled or disabled during reset and status file loading.</li> <li>d) System crashes when IQ MOD and ARB switches are enabled, followed by enabling RF blanking when Pulse is enabled.</li> </ol> </li> </ol>

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		<ul style="list-style-type: none"> <li>e) RF frequency switching time &gt; 5 ms when AM modulation is enabled.</li> <li>f) Local oscillator source not switched during default reset.</li> </ul>
2025/11/5	1.0.0.7.3	<ul style="list-style-type: none"> <li>1. Added pi/4 CQPSK modulation type to Custom</li> <li>2. Added segmented file transfer command</li> <li>3. Expanded linear frequency modulation generation points to 2G</li> <li>4. AM source: Remove internal + external; remove modulation depth setting for external source.</li> <li>5. UI page changes for bandwidth compensation and user vector compensation.</li> <li>6. Single sweep can be set to stop at the last point or the first point.</li> <li>7. ARB Waveform Utilities apply specifies the file path</li> <li>8. Supports playback of UWB protocol waveform files</li> <li>9. After editing the marker, return to the previous page and ask if you want to save.</li> <li>10. Fixed several bugs <ul style="list-style-type: none"> <li>a) Fixed linear frequency modulation power error</li> <li>b) Fixed ARB Gaussian filter function error</li> <li>c) Fixed system crash when playing large ARB files</li> <li>d) Fixed inaccurate PEP display value</li> <li>e) Fixed stuttering when RF scan is triggered externally</li> <li>f) Fixed waveform not updating after modifying AM frequency and modulation depth</li> </ul> </li> </ul>
2025/6/30	1.0.0.7.2	<ul style="list-style-type: none"> <li>1. Linear frequency modulation increases waveform display</li> <li>2. Multi-tone supports independent control of amplitude, phase and switch of each spectrum line</li> <li>3. Compatible with SMBV100B remote commands</li> <li>4. When the number of points in the marker file does not match the number of points in the waveform file, reset the marker to its initial value</li> <li>5. Fixed several bugs <ul style="list-style-type: none"> <li>a) Solve the problem of failure to load custom</li> </ul> </li> </ul>

Date	Version	Revision
		constellation map b) Solve the problem of abnormal linear frequency modulation waveform c) Solve the problem that the power meter flatness list filling is not effective
2025/6/4	1.0.0.7.1	1. Added SCPI recording function 2. 2ASK modulation adds ASK depth setting item 3. 2ASK adds rectangular filter 4. Added new file transfer commands: ":MEMory:DATA:SAVE" and ":MMEMory:DATA" 5. Fixed several bugs a) Solve the problem of FSK signal error b) Solve the problem of wrong number of points in linear frequency modulation
2025/4/17	1.0.0.7.0	1. Add a pop-up window when switching frequency causes IQ mode to be turned off 2. New options: "SigIQPro-IEEE.802.11.a/b/g/n/ac" 3. Added linear frequency modulation function 4. Fixed several bugs a) Solve the problem of inaccurate power when turning on RF in IQ mode b) Solve the problem of inaccurate power after turning on arb filtering c) Solve the problem of insertion failure after clearing the multi-carrier list d) Solve the problem of abnormal waveform after peak clipping/scaling
2025/2/17	1.0.0.6.8	1 <sup>st</sup> release

## 2 Version Compatibility

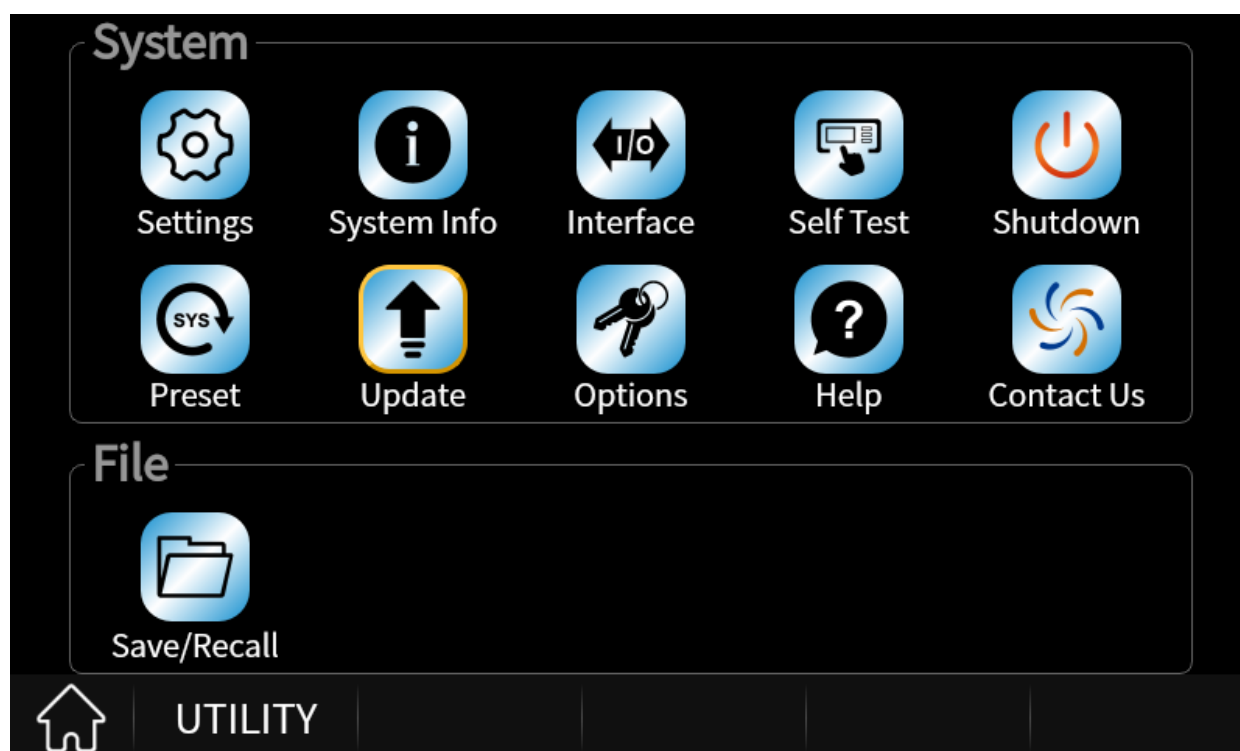
Source Version	Object Version	Compatibility
1.0.0.7.4	1.0.0.7.6	Tested
1.0.0.7.3	1.0.0.7.6	Tested
1.0.0.7.2	1.0.0.7.6	Tested
1.0.0.7.1	1.0.0.7.6	Tested
1.0.0.7.0	1.0.0.7.6	Tested
1.0.0.6.8	1.0.0.7.6	Tested
1.0.0.7.3	1.0.0.7.4	Tested
1.0.0.7.2	1.0.0.7.4	Tested
1.0.0.7.1	1.0.0.7.4	Tested
1.0.0.7.0	1.0.0.7.4	Tested
1.0.0.6.8	1.0.0.7.4	Tested
1.0.0.7.2	1.0.0.7.3	Tested
1.0.0.7.1	1.0.0.7.3	Tested
1.0.0.7.0	1.0.0.7.3	Tested
1.0.0.6.8	1.0.0.7.3	Tested
1.0.0.7.1	1.0.0.7.2	Tested
1.0.0.7.0	1.0.0.7.2	Tested
1.0.0.6.8	1.0.0.7.2	Tested
1.0.0.7.0	1.0.0.7.1	Tested
1.0.0.6.8	1.0.0.7.1	Tested
1.0.0.6.8	1.0.0.7.0	Tested

## 3 Upgrade Instructions

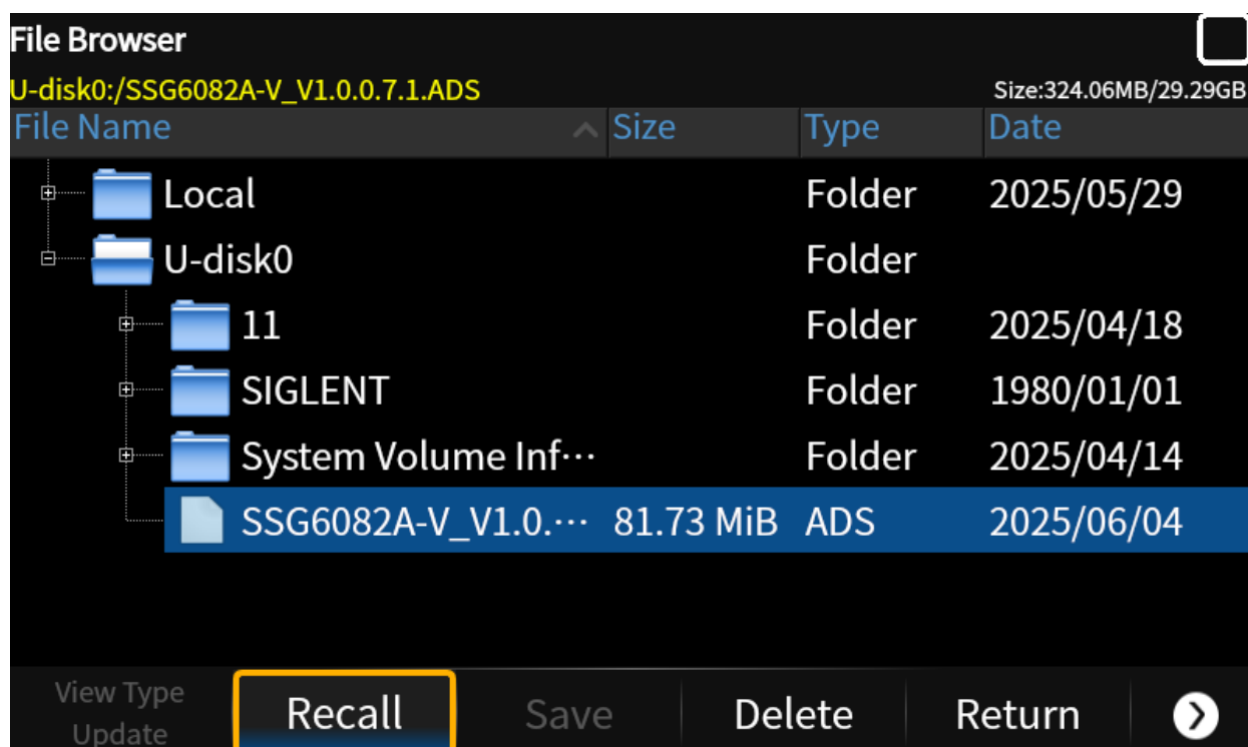
### 3.1 Upgrade from a U-disk (USB Memory device)

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

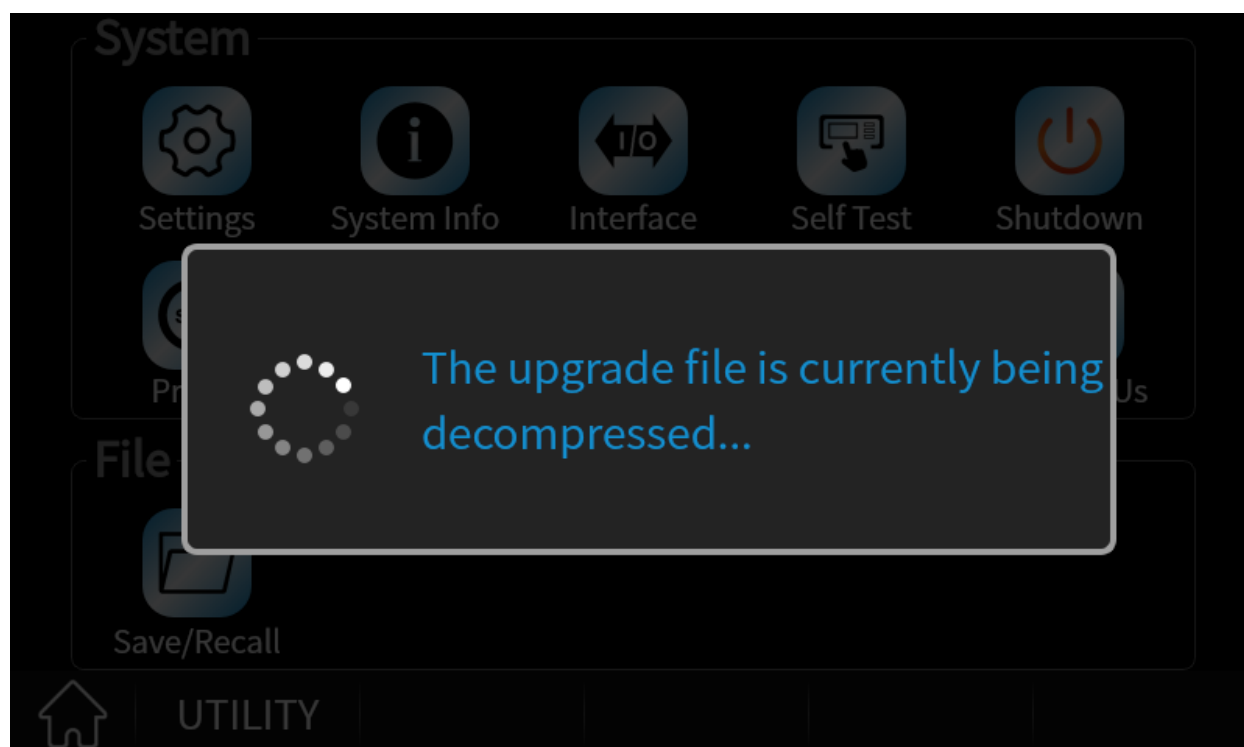
1. Copy the update file (\*.ads) to a FLASH type U-disk, and then insert the U-disk into one of the USB host ports of the instrument.
2. Press the Utility button on the front panel, and press *Upgrade* . The resource manager will pop up.

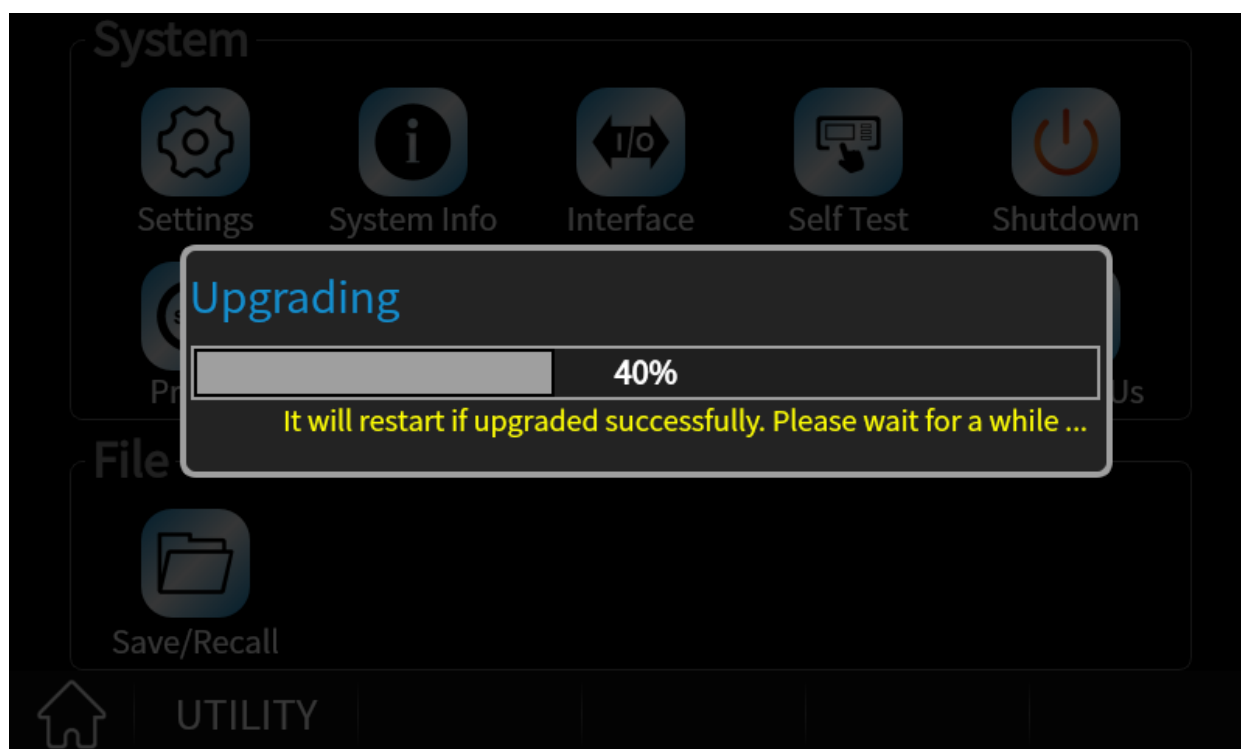


3. Select the correct ads file in the resource manager and click Load.

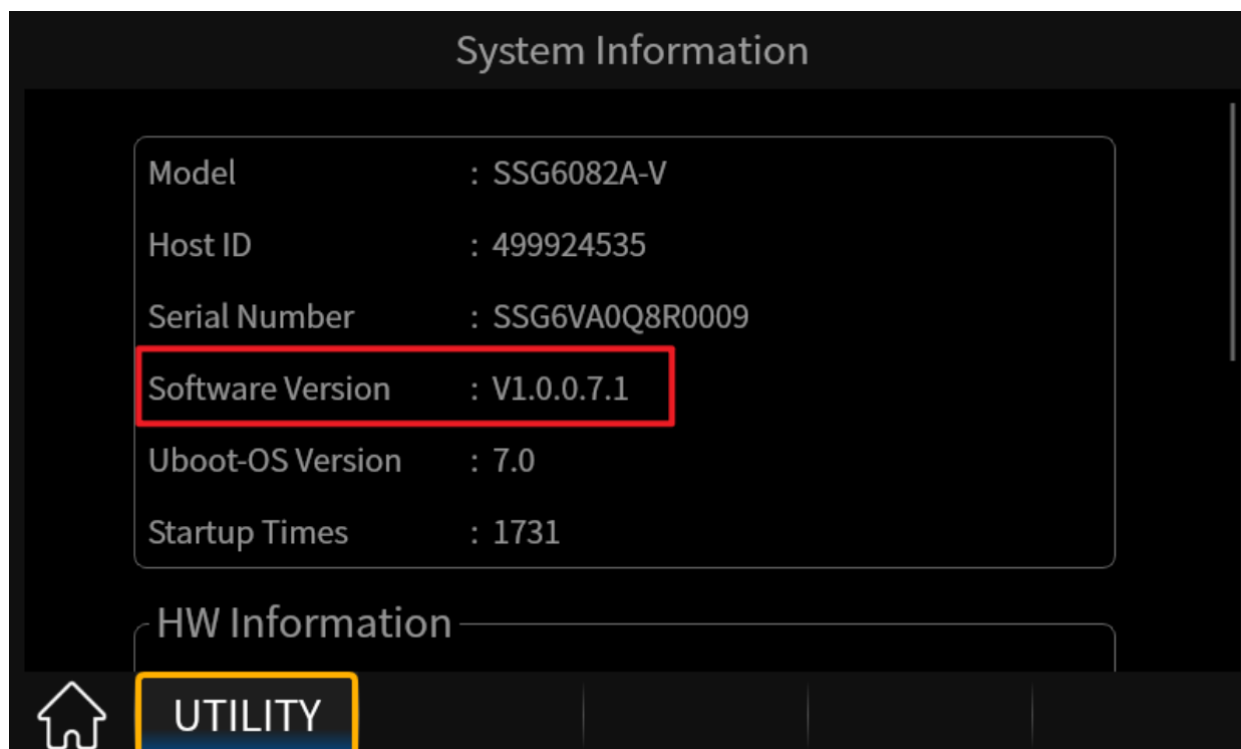


4. The system will first decompress and verify the upgrade package. If the upgrade package passes the verification, the instrument will automatically upgrade.





5. After the instrument reboots, check the version number through the **Utility** -> **System Info** to confirm if the upgrade is successful.



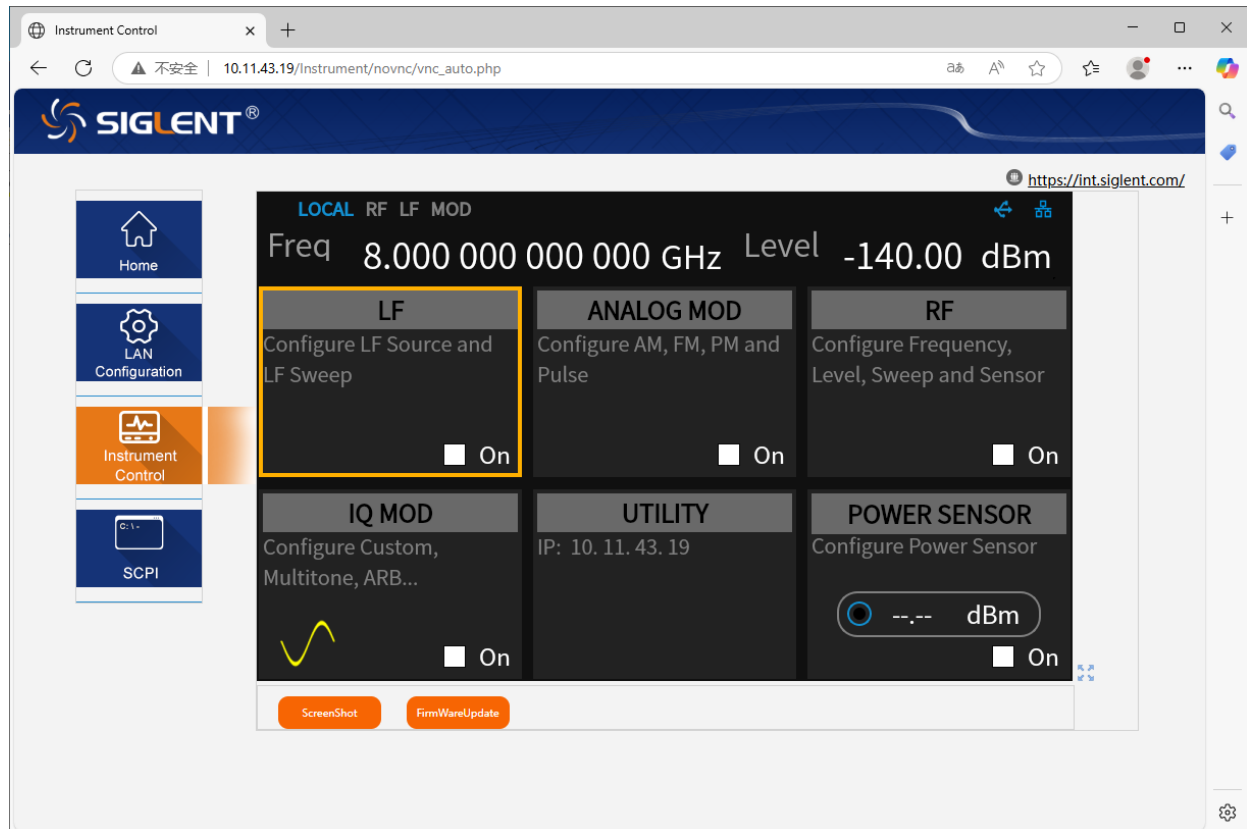
**[WARNING] DO NOT** shut off the instrument until the update is completed.



## 3.2 Upgrade from the Web Server

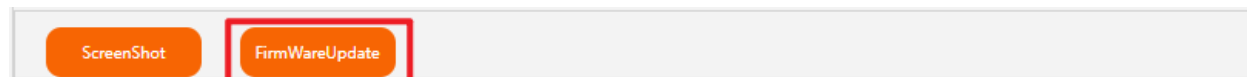
A built-in web server provides an approach to control the instrument by web browser. This process doesn't require any additional software to be installed on the controlling computer. Set the LAN port correctly (see the User Manual for details), input the IP address of the instrument in the browser address bar, and then the user can browse and control the instrument on the web.

Click Instrument to enter the instrument control interface.



**[WARNING] DO NOT shut off the instrument until the update is completed.**

1. Click the "FirmWareUpdate" button in the web interface



2. Select the correct update file (\*.ads) stored on the computer. The instrument will automatically download the update file and perform the upgrade once the file is specified.

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



## About SIGLENT

SIGLENT is an international high-tech company, concentrating on R&D, sales, production and services of electronic test & measurement instruments.

SIGLENT first began developing digital oscilloscopes independently in 2002. After more than a decade of continuous development, SIGLENT has extended its product line to include digital oscilloscopes, isolated handheld oscilloscopes, function/arbitrary waveform generators, RF/MW signal generators, spectrum analyzers, vector network analyzers, digital multimeters, DC power supplies, electronic loads and other general purpose test instrumentation. Since its first oscilloscope was launched in 2005, SIGLENT has become the fastest growing manufacturer of digital oscilloscopes. We firmly believe that today SIGLENT is the best value in electronic test & measurement.

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