

SVA1000X Firmware Revision History

Version	Revision
V3.2.2.5.1R1	Notice:
2022/5/10	This firmware must be upgraded from V3.2.2.4.0 or later. If your analyzer has an earlier version,
	please update to V3.2.2.4.0 first and then proceed to update to the latest version.
	Improvements:
	Optimize the Ref level and Att couple
	Add SCPI commands in MA Mode
	•READ:ADEMod:AVG?
	•[:SENSe]:ADEMod:FM:DEVI?
	•[:SENSe]:ADEMod:FM:DRIFt?
	•[:SENSe]:BWIDth[:RESolution]
	•[:SENSe]:BWIDth[:RESolution]?
	•[:SENSe]:BWIDth:EQLPf
	•[:SENSe]:BWIDth:EQLPf?
	CALCulate:MARKer#:PTPeak
	Add Cable Atten to correct cable loss in DTF Mode
	Add .trc file in EMI Mode
	Add .lic file auto scan
	Solved Issues:
	Fix pi/4 DPSK 和 pi/8 DPSK decode errors in MA mode
	Fix calibration error when port extension on in VNA mode
	Fix fft frequency error in narrow span in SA mode
	Fix trace avg calculation error in SA mode
	Fix the zero sweep type when fft in SA mode
V3.2.2.5.0	Notice:
2021/9/30	This firmware must be upgraded from V3.2.2.4.0 or later. If your analyzer has an earlier version,
	please update to V3.2.2.4.0 first and then proceed to update to the latest version.
	New Functionality:
	Add Ext Trigger Delay from 0-10 seconds in SA Mode
	Add Limit in Log mag and Lin mag format; add calibration average; add s1p touchstone
	file save in VNA mode
	Improvements:
	VNA sweep points up to 10001; Scale down to 0.001 in Smith chart;
	MA Filter type Nyquist change to Raised Cosine to align SCPI command; improve filter
	performance in low frequency
	EMI RBW/Step from 1 to 3



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	Solved Issues:
	 SA fix the difference between marker and peak and marker style; Fix Center Freq error; Fix limit fail to stop error; Fix Auto frequency error; In normalization, auto re-normalized after any setting changes VNA Phase error; STA file saving error; CSA file loading error; S21 calibration error; Enhanced calibration error EMI frequency offset error; saving std lim path error Web browser cannot change IP, and cannot login after changing password
V3.2.2.4.0R2	Notice:
2021/2/9	This firmware must be upgraded from V2.1.1.1.12a or later. If your SVA1000X has an earlier
	version, please update to V2.1.1.1.12a first and then proceed to update to the latest version.
	Fix the VNA option license error on some SVA1015 and SVA1075 units
V3.2.2.4.0	Notice:
2021/1/15	This firmware must be upgraded from V2.1.1.1.12a or later. If your SVA1000X has an earlier
	version, please update to V2.1.1.1.12a first and then proceed to update to the latest version.
	Fix TG switch error at small RBW
	Fix Help and Limit file lost when Factory reset
	Fix Auto open delay unit error in VNA mode
	Fix CNR calc error when no peak found
	Fix OBW result overflow
	Fix Harmonic calc error at 100Hz RBW
	Fix Reflection Open+Short calibration action
	Fix spectrum amplitude error in DMA mode
	Optimize EMI .csv file content to all signal list
	Optimize EMI peak search
	Optimize Auto cal process
	Add Peak search to Spectrum in DMA mode
	This version con not be rolled back
V3.2.2.3.3R1	Notice:
2020/12/01	This firmware must be upgraded from V2.1.1.1.12a or later. If your SVA1000X has an earlier
	version, please update to V2.1.1.1.12a first and then proceed to update to the latest version.
	New Functionality:
	Add EMI filter in SA for EMI option
	Solved Issues:
	Optimize the TG flatness and control procedure
	Optimize Help
	Fix Correction, .csv file, add peak numbers to 20 in EMI mode



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	Fix ADC overload warning error, and time unit error in Calibration in VNA Mode Fix any littude arran in DNA Made.
	Fix amplitude error in DMA Mode Fix amplitude in the control of the control
\(\(\alpha\)	Fix upgrade failure issue
V3.2.2.3.2 2020/09/09	Notice: This firmware must be upgraded from V2.1.1.1.12a or later. If your SVA1000X has an earlier version, please update to V2.1.1.1.12a first and then proceed to update to the latest version.
	New Functionality:
	Add user defined VNA calibration kits
	Add VNA 0 span calibration
	Solved Issues:
	Fix avg power bug in EMI Mode
	Fix amplitude bug in AMA Mode
	Fix peak search bug in SCPI command
V2.2.1.2.8	Notice:
2020/07/20	This firmware must be upgraded from V2.1.1.1.12a or later. If your SVA1000X has an earlier version, please update to V2.1.1.1.12a first and then proceed to update to the latest version.
	New Functionality: Update EMI option to a new EMI measurement mode Added more VNA calibration kits with N/3.5mm type connectors to 4.5G/9.0GHz Added *.CSA file type to store instrument setup and calibration data in one file for easy recall and use of a saved state. Update user calibration data format. CAUTION: User calibration data taken with previous firmware revisions will no longer be compatible with the instrument after upgrading to V2.8. You will have to store new user calibration files if you update the instrument. VNA Port 1 output power and Port2 input Att adjustable Improvements: Improve TG output harmonic performance Update Help file Solved Issues:
	Fix some ADC overload warning Fix Ch Power calculation bug in small span
V2.2.1.2.7 2020/05/12	Notice: This firmware must be upgraded from V2.1.1.1.12a or later. If your SVA1000X has an earlier version, please update to V2.1.1.1.12a first and then proceed to update to the latest version.



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	New Functionality:
	Add Limit mask offset in SA mode
	Frequency LOG scale in VNA mode
	Add OPEN、SHOT、enhanced response in VNA mode
	Add 85033D/E Cal kit in VNA mode
	Save/recall .cal file in VNA mode
	Port 1 power (TG) adjustable in VNA mode
	Zero span in VNA mode
	Improvements:
	Smooth the glitch in Phase format in VNA mode
	Solved Issues:
	Fixed AM and FM symbol rate error, Lpf coefficient error, in AMA mode
	Fixed Filter bandwidth error in DMA mode
	Fixed Freq counter error in SA mode
	Fixed Harmonic error in SA mode
	Help Display error
V2.2.1.2.5	Notice:
2019/11/11	This firmware must be upgraded from V2.1.1.1.12a or later. If your SVA1000X has an earlier
	version, please update to V2.1.1.1.12a first and then proceed to update to the latest version.
	Improvements:
	Optimize trace, marker, signal track, TG normalization in SA Mode
	Optimize calibration flow, calibration algorithm and sweep speed in VNA Mode
	Optimize web server UI
	Solved Issues:
	Fixed video trigger fail, errors in Harmonic measurement in SA Mode
	Fixed admittance error, port extensions error in VNA Mode
	Fixed spectrum amplitude error, meas error, waveform discontinue in MA Mode
	Fixed English help, system message
V2.2.1.2.2	Notice:
2019/8/1	This firmware must be upgraded from V2.1.1.1.12a or later. If your SVA1000X has an earlier
	version, please update to V2.1.1.1.12a first and then proceed to update to the latest version.
	New Functionality:
	Add a spectrum view, marker for MA Mode
	Add mode couple for center frequency
	Add system message
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	Improvements:
	Optimize .sta file, trace interpolation for VNA Mode
	Optimize PSK/QAM clock sync ability for MA Mode
	Solved Issues:
	Fixed AVG, Math bug for VNA Mode
	Fixed Date&Time set bug
V2.2.1.2.1	Notice:
2019/6/1	This firmware must be upgraded from V2.1.1.1.12a or later. If your SVA1000X has an earlier
	version, please update to V2.1.1.1.12a first and then proceed to update to the latest version.
	New Functionality:
	Add CNR, Harmonic measurement in AMK options for SA Mode
	 Add port extensions, user cal kit, new marker functions, correction switch, multi-traces and multi-format overlay display for VNA Mode
	Extend xQAM, MSK, xPSK modulation analysis in DMA option for MA Mode
	Add new marker functions, multi-traces and multi-format overlay display for MA Mode
	Add SCPI commands for VNA and MA Modes
	Add some system functions: Screen Annotation in Display menu, FTP server for file
	transfer
	Improvements:
	Optimize UI, refresh and response for all Modes
	Optimize SCPI commands for basic control, such as INIT, *OPC?, *ESR, Abort, etc.
	Optimize Log scale axes, Peak search, Auto tune, TG normalization for SA Mode
	Optimize S11 and S21 simultaneous measurement, calibration control, trace control and
	auto scale for VNA Mode
	Optimize some system functions: Power Saving, IP config
	Solved Issues:
	Fixed OBW Transmit Freq Error
	Fixed bugs during Mode switch
V2.1.1.1.13	New Functionality:
2018/11/1	Screen saver for power saving
	VNC View only for web server
	VNA: .csv file for each format, Expand Phase for marker
	Improvements:
	VNA: Auto Scale, min Scale to 0.1 dB
	DTF: logistic scale for RL display
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	Solved Issues:
	Invalid Demod time in FM
	Scale in TG
	Wrong units in Markers and peaks
	Boot or Mode start lock up
	Udisk display wrong files
	SCPI command incompatible
	Min span to 10kHz in AMK power measurement
V2.1.1.1.12a	Spectrum Analysis mode: Improved the stability of sweep and interface.
2018/8/8	2. VNA mode: fasten the VNA sweep speed; expand the minimum span from 10M to 10 kHz.
	3. Modulation Analysis mode: add trigger, optimize the modulation analysis algorithm.
	4. Add user port number selection for web server.