

SignalVu-PC Software Release Notes

Version 5.8.0180

Product	SignalVu-PC Vector Signal Analysis Software
Version	5.8.0180
Last revised	April 2026

Supported instruments

- DPO714AX
- 5 Series B MSO (MSO54B/MSO56B/MSO58B)
- 6 Series B MSO (MSO64B/MSO66B/MSO68B)
- RSA7100B/RSA503A/RSA507A/RSA513A/RSA518A/RSA607A/RSA306/RSA306B

This release note provides a summary of the new features, improvements, and bug fixes included in this software release.

Portions of this program were developed using Smartmontools, which is licensed under the GNU General Public License (GPL). The complete corresponding sources, license, and copyrights are available with the installed program at

C:\Program Files\Tektronix\TekScope\SYSTEM\RSA\Utilities\RaidQuery\
SMARTMonTools_SourceCode_RAIDQueryTestApp

NOTE: License support has changed in this release and is no longer backward compatible with previous versions of SignalVu-PC. Once the upgrade to version 5.0.x, or greater, is completed, moving to a previous version of SignalVu-PC causes licenses to be lost. If this occurs, contact Tektronix to obtain and install new licenses.

What's new in this release

- Sub-Nyquist sampling (RF Sub-Nyquist Sampling) support is now available on the MSO and DPO714AX platforms.
- Fast Frame support is available for DPO714AX in SignalVu.
- Math channel support in SignalVu enables advanced analysis on oscilloscope math channels.
- Virtual Instrument mode allows SignalVu to operate without physical hardware by emulating supported oscilloscopes (MSO5/6 and DPO714AX).
- Enhanced crosshair measurements now support interactive X-Y and Δ measurements on measurement traces.
- Extended source-handling capability supports multiple user-defined sources per oscilloscope channel.

Defects fixed

- DPO714AX sampling rate issue is now <12.5 GSa/s
- Fixed an EMCVu crash that occurred when loading accessories from a CSV file.
- Report overlap issue is fixed in EMCVu report.
- Lower sampling rates for lower spans in DPO714AX is fixed.
- Improved acquisition time for higher record lengths.



Limitations

- A connection to either **USB RSA** or virtual instrument is necessary before recalling the R3F file.
- For MSOs, the maximum oscilloscope bandwidth and maximum spectrum span depend on the specific channels in use.
 - For example, in MSO68B, maximum oscilloscope bandwidth is 10 GHz and maximum spectrum span is 2 GHz. The channels can be grouped like 1, 2, 5, 6 and 3, 4, 7, 8.
 - The maximum oscilloscope bandwidth and spectrum span can be utilized when one or more channels from group 1, 2, 5, and 6 are used exclusively, and channels from group 3, 4, 7, and 8 are not used.
 - If any combination of channels from group 3, 4, 7, and 8 is used, whether or not channels from group 1, 2, 5, or 6 are also used, only half of the maximum oscilloscope bandwidth and spectrum span can be utilized.
- When connected to MSOs, the advanced triggering capability is limited to Edge trigger only.
- Installing SignalVu-PC versions earlier than 5.0.x requires generation of a new Host ID and recreation of licenses using that Host ID.
- When two or more sources are configured with different span, the highest span is used for both signal acquisition and analysis across all sources.
- Mask search and mask tests are applied only to measurements under Source 1.
- In SignalVu-PC, EMCVu plugin menu options are not displayed when you are reconnecting to the instrument. This limitation does not occur when the EMCVu plugin shortcut is used.
- To view EMCVu menu options on the favorites bar in SignalVu-PC, it is recommended to click the three dots in the top-right corner of the application and select the EMC option.
- RSAMap is not supported on the MSO platforms.
- Spectrum inversion is supported only through downconverter settings or plugins that provide spectrum-inversion capability.
- The Frequency Offset feature does not support High Side Injection in case of DPX spectrum.
- Marker to Center and Marker to Peak are not supported in some Constellation displays.
- The Phase Noise measurement starting offset is restricted to 10 kHz in SW-DDC mode on MSO and DPO714AX platforms.
- Phase noise measurement is disabled in RF Sub-Nyquist sampling mode for MSO and DPO714AX.
- Fast Frame capability in SignalVu is supported for DPO714AX only on TekScope firmware versions later than 2.24.4.
- At sample rates lower than the maximum supported by the oscilloscope, loading a .wfm file from TekScope into SignalVu may result in display issues unless the center frequency and span are manually set.

Known issues

- During uninstallation of SignalVu-PC, a "Preparing to Install" screen may appear. Allow the uninstallation process to continue and select Yes on the confirmation screen.
- When recalling a TIQ file that was saved with the dBc/Hz option enabled in marker properties, the option may be disabled. Re-enable the dBc/Hz option to display dBc/Hz values in marker readouts.
- In rare cases, the instruments listed in the SignalVu-PC Connect screen and in TekVISA do not match the TekVISA search criteria. Restart the instrument or the test PC.
- Return Loss measurements and Tracking Generator measurements are mutually exclusive hence running together leads to application crash.
- SignalVu-PC installation may take longer than expected on systems where certain system settings on the C: drive are protected. In that case, disable the system protection on the C: drive temporarily before installation and re-enable it afterward using the following PowerShell commands:
 - To Disable : `Disable-ComputerRestore -Drive "C:\"`
 - To Enable back after installation : `Enable-ComputerRestore -Drive "C:\"`

Version 5.7.0161

Product	SignalVu-PC Vector Signal Analysis Software
Version	5.7.0161
Last revised	October 2025

Supported instruments

- DPO714AX
- 6 Series B MSO (MSO64B, MSO66B, and MSO68B)
- 5 Series B MSO (MSO54B / MSO56B / MSO58B (V2.14.3))
- RSA 306/306B/503A/507A/513A/518A/607A/RSA7100B

This release note provides a summary of the new features, improvements, and bug fixes contained in the above software release.

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```
C:\Program Files\Tektronix\TekScope\SYSTEM\RSA\Utilities\RaidQuery\
SMARTMonTools_SourceCode_RAIDQueryTestApp
```

NOTE: License support has changed in this release and is no longer backward compatible with previous versions of SignalVu-PC. Once the upgrade to version 5.0.x, or greater, is completed, moving to a previous version of SignalVu-PC will cause licenses to be lost. If this occurs, contact Tektronix to obtain and install new licenses.

What's new in this release

- GPS 1-PPS trigger supports USB RSA500/600 series with GNSS port.
- Support MSO analog waveform data (Software DDC in SignalVu application).
- The SignalVu application now supports dark theme mode.
- Overlay and Math traces supports multi-channel displays.

Defects fixed

- GPS week roll over in RSA500 series.
- Spurious display, unable to change the frequency range C.
- EMCVu Standard upgrade - EN55011 and EN55025.

Limitations

- Maximum oscilloscope bandwidth and spectrum span can be utilized when one or more channels from group 1, 2, 5, and 6 are used exclusively, and channels from group 3, 4, 7, and 8 are not used.
- If any combination of channels from group 3, 4, 7, and 8 is used, whether or not channels from group 1, 2, 5, or 6 are also used, only half of the maximum oscilloscope bandwidth and spectrum span can be utilized.
- When connected to MSOs, the advanced triggering capability is limited to Edge trigger only.
- Installing an older version of SignalVu-PC (prior to 5.0.x) requires a new Host ID to be generated from SignalVu-PC and recreate licenses with a new Host ID.
- When two or more sources are configured with different span, the highest span is used for both signal acquisition and analysis across all sources.
- Mask search and tests are applied only to measurements under Source 1.

- In SignalVu-PC, when reconnecting to the instrument, the application does not display menu options for EMCVu plugin measurements. This issue does not occur when using the EMCVu plugin shortcut.
- To view EMCVu menu options on the favorites bar in SignalVu-PC, it is recommended to click the three dots in the top-right corner of the application and select the EMC option.
- RSAMap is not supported on the MSO.
- You should enable spectrum inversion either through the downconverter settings or by using a plugin that already supports spectrum inversion.
- The Frequency Offset feature does not support High Side Injection when using the DPX spectrum.
- Marker to Center and Marker to Peak are not supported in some of the constellation display.
- For MSO's, when fast frame is enabled, the maximum analysis length is limited to 10 ms (need to be updated).
- For DPO714AX, at a sample rate of 62.5 GS/s, the maximum acquisition length is limited to 32 ms. To capture the data beyond this duration, reduce the sample rate to a value below 62.5 GS/s.
- For Phase Noise measurements on the DPO714AX, the minimum supported start frequency is 10 kHz.
- For the phase noise measurements in DPO714AX, the maximum sample rate supported is 62.5GS/s.
- RSA7100 users can monitor RAID status using Smartmontools (download link: <https://www.smartmontools.org/wiki/Download>), or any other tool of their choice.
- The Overlay Trace View feature is not supported for Eye Diagram, Trellis Diagram, and Constellation measurements.

Known issues

- When uninstalling SignalVu-PC, a 'Preparing to Install' screen appears. Allow the uninstallation process to continue, and click 'Yes' on the confirmation screen to proceed.
- If a TIQ file is saved with the dBc/Hz option enabled in the marker properties, the checkbox will be unchecked upon recall. To view dBc/Hz values in marker readouts, re-enable the checkbox in the marker settings.
- In some cases, instruments listed in the Connect screen of SignalVu-PC or TekVISA may not meet the expected search criteria. If this occurs, restart the instrument or test PC to refresh the connection.
- Return Loss and Tracking Generator measurements are mutually exclusive. Attempting to run both simultaneously may cause the application to crash.
- Dark theme is not applicable for the External gain correction tables and Signal survey region dropdowns.
- In certain cases, SignalVu-PC installation may take longer than expected due to system protection settings on the C:\ drive. To resolve this, temporarily disable the protection using the following PowerShell commands before installation, and re-enable it afterward:
 - To disable the protection: `ComputerRestore -Drive "C: \"`
 - To enable the protection back after installation: `Enable-ComputerRestore -Drive "C: \"`

Version 5.6.0298

Product	SignalVu-PC Vector Signal Analysis Software
Version	5.6.0298
Last revised	September 2025

Supported instruments

- DPO714AX

This release note provides a summary of the new features, improvements, and bug fixes contained in the above software release.

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C:\Program Files\Tektronix\SignalVu-PC\RSA\Utilities\RaidQuery\SMARTMonTools_SourceCode_RAIDQueryTestApp .

NOTE: License support has changed in this release and is no longer backward compatible with previous versions of SignalVu-PC. Once the upgrade to version 5.0.x, or greater, is completed, moving to a previous version of SignalVu-PC will cause licenses to be lost. If this occurs, contact Tektronix to obtain and install new licenses.

What's new in this release

- Docking window support enables you to move SignalVu displays to secondary monitors.
- SignalVu supports the DPO714AX oscilloscope.
- Support for the IEC 61000-3 standard has been added to EMCVu, enabling more general-purpose electromagnetic compatibility testing.
- Automated peak markers now simplify the signal characterization by automatically detecting the signal peaks.
- A dynamic “crosshairs” pointer has been implemented on the RF plots, enhancing visualization and interactive analysis of the signal behavior across the frequency and time domains.

Defects fixed

- EMCVu PC with node locked license connected to RSA without any error message.

Limitations

- Maximum oscilloscope bandwidth and spectrum span can be utilized when one or more channels from group 1, 2, 5, and 6 are used exclusively, and channels from group 3, 4, 7, and 8 are not used.
- If any combination of channels from group 3, 4, 7, and 8 is used, whether or not channels from group 1, 2, 5, or 6 are also used, only half of the maximum oscilloscope bandwidth and spectrum span can be utilized.
- Installing a version of SignalVu-PC earlier than 5.0.x requires generating a new Host ID within SignalVu-PC and recreating licenses using that new Host ID.
- When two or more sources are configured with different span, the highest span is used for both signal acquisition and analysis across all sources.
- Mask search and tests are applied only to measurements under Source 1.
- In SignalVu-PC, when reconnecting to the instrument, the application does not display menu options for EMCVu plugin measurements. This issue does not occur when using the EMCVu plugin shortcut.
- To view EMCVu menu options on the favorites bar in SignalVu-PC, it is recommended to click the three dots in the top-right corner of the application and select the EMC option.
- RSAMap is not supported on DPO714AX.

- 5GNR plugin is supported only on Windows-10.
- For DPO714AX, at a sample rate of 62.5 GS/s, the maximum acquisition length is limited to 32 ms. To capture the data beyond this duration, reduce the sample rate to a value below 62.5 GS/s.
- For Phase Noise measurements on the DPO714AX, the minimum supported start frequency is 10 kHz and the maximum supported sample rate is 62.5 GS/s.

Known issues

- When uninstalling SignalVu-PC, a 'Preparing to Install' screen appears. Allow the uninstallation process to continue, and click 'Yes' on the confirmation screen to proceed.
- If a TIQ file is saved with the dBc/Hz option enabled in the marker properties, the checkbox will be unchecked upon recall. To view dBc/Hz values in marker readouts, re-enable the checkbox in the marker settings.
- In some cases, instruments listed in the Connect screen of SignalVu-PC or TekVISA may not meet the expected search criteria. If this occurs, restart the instrument or test PC to refresh the connection.
- Return Loss and Tracking Generator measurements are mutually exclusive. Attempting to run both simultaneously may cause the application to crash.
- In certain cases, SignalVu-PC installation may take longer than expected due to system protection settings on the C:\ drive. To resolve this, temporarily disable the protection using the following PowerShell commands before installation, and re-enable it afterward:
 - To disable the protection: `ComputerRestore -Drive "C: \"`
 - To enable the protection back after installation: `Enable-ComputerRestore -Drive "C: \"`.

Version 5.5.0143

Product	SignalVu-PC Vector Signal Analysis Software
Version	5.5.0143
Last revised	July 2024

Supported instruments

- 6 Series B MSO (MSO64B, MSO66B, and MSO68B)
- 5 Series B MSO (MSO54B, MSO56B, and MSO58B)
- 6 Series MSO (MSO64, MSO66, and MSO68)
- 5 Series MSO (MSO54, MSO56, and MSO58)
- RSA 306/306B/503A/507A/513A/518A/607A

This release note summarizes new features, improvements, and bug fixes contained in the above software release.

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C:\Program Files\Tektronix\SignalVu-PC\RSA\Utilities\RaidQuery\SMARTMonTools_SourceCode_RAIDQueryTestApp .

NOTE: License support has changed in this release such that it is no longer backward compatible with previous versions of SignalVu-PC. Once the upgrade to version 5.0.x, or greater, is completed, moving to a previous version of SignalVu-PC will cause licenses to be lost. If this occurs, contact Tektronix to obtain and install new licenses.

What's new in this release

This version includes Advanced Triggering capability for USB RSAs. This includes

- Frequency Mask Trigger (FMT)
- DPX Density Trigger (DDT)
- Time Qualified Trigger (TQT)

This version of SignalVu-PC supports Windows 11 for connecting to RSAs and MSOs. However on MSOs and RSA7100 instruments, Windows 11 is not supported.

Fixed defects

- CSV export issue in RSA500/600: Corrected the CSV result export functionality and addressed issues with preamplifier and attenuation values.
- SignalVu GNSS statements: Fixed the issue where SignalVu was unable to read GNSS statements such as GNGGA and GNRMC from the communication port.
- Center frequency recall: Corrected the problem where the center frequency was getting corrupted when recalling the .setup file on USB RSAs.

Limitations

- When using FMT and DDT in the context of USB RSAs, there exists a minor time discrepancy at the precise Trigger point.
- Advanced triggers for USB RSAs do not support swept acquisitions.
- Installing a version of SignalVu-PC earlier than 5.0.x requires generating a new Host ID within SignalVu-PC and recreating licenses using that new Host ID.

- In SignalVu-PC, when reconnecting to the instrument, the application does not display menu options for EMCVu plugin measurements. This issue does not occur when using the EMCVu plugin shortcut.
- To view EMCVu menu options on the favorites bar in SignalVu-PC, it is recommended to click the three dots in the top-right corner of the application and select the EMC option.
- Enable the spectrum inversion either from downconverter settings or from the plugin already supporting spectrum inversion.
- Frequency Offset feature does not support High Side Injection in case of DPX spectrum.
- Marker to Center and Marker to Peak are not supported in some of the Constellation displays.

Known issues

- In the case of TQT for USB RSAs, signals with a pulse width of milliseconds or more may occasionally exhibit smaller pulses.
- When uninstalling SignalVu-PC, a 'Preparing to Install' screen appears. Allow the uninstallation process to continue, and click 'Yes' on the confirmation screen to proceed.
- When a TIQ file is saved with dBc/Hz in marker properties checked, upon recall the checkbox will be unchecked. User must enable the option to see dBc/Hz values in marker readouts.
- Sometimes the instruments listed in the connect screen of SignalVu-PC and TekVISA do not meet the search criteria in TekVISA, in such cases it is recommended to restart the instrument/test PC.
- Return Loss measurements and Tracking Generator measurements are mutually exclusive hence running together leads to application crash.
- Saving and Recalling .tiqm file with DPX measurement may not work as expected.
- In certain cases, SignalVu-PC installation may take longer than expected due to system protection settings on the **C:\ drive**. To resolve this, temporarily disable the protection using the following PowerShell commands before installation, and re-enable it afterward:
 - To disable the protection: `ComputerRestore -Drive "C: \"`
 - To enable the protection back after installation: `Enable-ComputerRestore -Drive "C: \"`

Version 5.4.0210

Product	SignalVu-PC Vector Signal Analysis Software
Version	5.4.0210
Last revised	August 2025

Supported instruments

- 6 Series B MSO (MSO64B, MSO66B, and MSO68B)
- 5 Series B MSO (MSO54B, MSO56B, and MSO58B)
- RSA 306/306B/503A/507A/513A/518A/607A/RSA7100B

This release note provides a summary of the new features, improvements, and bug fixes contained in the above software release.

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C:\Program Files\Tektronix\SignalVu-

PC\RSA\Utilities\RaidQuery\SMARTMonTools_SourceCode_RAIDQueryTestApp .

NOTE: License support has changed in this release and is no longer backward compatible with previous versions of SignalVu-PC. Once the upgrade to version 5.0.x, or greater, is completed, moving to a previous version of SignalVu-PC will cause licenses to be lost. If this occurs, contact Tektronix to obtain and install new licenses.

What's new in this release

- Support for the IEC 61000-3 standard has been added to EMCVu, enabling more general-purpose electromagnetic compatibility testing.
- The MSO5B and MSO6B Series oscilloscopes now support Fast Frame acquisition, allowing the capture of multiple triggered events with minimal dead time for longer record lengths.
- Automated peak markers now simplify the signal characterization by automatically detecting signal peaks.
- A dynamic “crosshairs” pointer has been implemented on the RF plots, enhancing visualization and interactive analysis of the signal behavior across the frequency and time domains.

Defects fixed

- DPX Max hold trace sometimes doesn't get cleared on invoking clear operation via GUI or PI.
- EMCVu PC with node locked license connected to RSA without any error message.
- Phase noise issue in 6 Series B MSO.

Limitations

- For MSOs, the maximum oscilloscope bandwidth and maximum Spectrum Span depends on the usage of the specific channels.
- For instance, In MSO68B, maximum oscilloscope BW is 10 GHz and maximum Spectrum Span is 2 GHz. The channels can be grouped like 1, 2, 5, 6 and 3, 4, 7, 8..
- Maximum oscilloscope bandwidth and spectrum span can be utilized when one or more channels from group 1, 2, 5, and 6 are used exclusively, and channels from group 3, 4, 7, and 8 are not used.
- If any combination of channels from group 3, 4, 7, and 8 is used, whether or not channels from group 1, 2, 5, or 6 are also used, only half of the maximum oscilloscope bandwidth and spectrum span can be utilized.
- When connected to MSOs, the advanced triggering capability is limited to Edge trigger only.

- Installing a version of SignalVu-PC earlier than 5.0.x requires generating a new Host ID within SignalVu-PC and recreating licenses using that new Host ID.
- When two or more sources are configured with different span, the highest span is used for both signal acquisition and analysis across all sources.
- Mask search and tests are applied only to measurements under Source 1.
- In SignalVu-PC, when reconnecting to the instrument, the application does not display menu options for EMCVu plugin measurements. This issue does not occur when using the EMCVu plugin shortcut.
- To view EMCVu menu options on the favorites bar in SignalVu-PC, it is recommended to click the three dots in the top-right corner of the application and select the EMC option.
- RSAMap is not supported on MSOs.
- Enable spectrum inversion only from the downconverter settings or from plugins that already support spectrum inversion
- Frequency Offset feature does not support High Side Injection in case of DPX spectrum.
- Marker to Center and Marker to Peak are not supported in some of the Constellation displays.
- 5GNR plugin is supported only on Windows-10.
- For MSO's, when fast frame is enabled, the maximum analysis length is limited to 10 ms (need to be updated).
- RSA7100 users can RAID monitoring status using tools such as Smartmontools (download link: <https://www.smartmontools.org/wiki/Download>) or some other tool of their own choice.

Known issues

- When uninstalling SignalVu-PC, a 'Preparing to Install' screen appears. Allow the uninstallation process to continue, and click 'Yes' on the confirmation screen to proceed.
- If a TIQ file is saved with the dBc/Hz option enabled in the marker properties, the checkbox will be unchecked upon recall. To view dBc/Hz values in marker readouts, re-enable the checkbox in the marker settings.
- In some cases, instrument listed in the Connect screen of SignalVu-PC or TekVISA may not meet the expected search criteria. If this occurs, restart the instrumen or test PC to refresh the connection.
- Return Loss and Tracking Generator measurements are mutually exclusive. Attempting to run both simultaneously may cause the application to crash.
- In certain cases, SignalVu-PC installation may take longer than expected due to system protection settings on the **C:\ drive**. To resolve this, temporarily disable the protection using the following PowerShell commands before installation, and re-enable it afterward:
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