

Requirements:

Installation of National Instruments visa driver

Rigol DSA815 FW: use FW V00.01.16 or higher

Rigol RSA 3K/5K series: make a manual Preset before starting EMCview, as the remote Preset is not executed reliably

Siglent SSA3000X FW: V1.x.x.x.x branch - use FW 1.3.9.6 or higher

Siglent SSA3000X FW: V2.x.x.x.x branch - FW v2.1.1.3R1 or higher

Siglent SVA/SSA Plus FW: use FW up to V2.2.1.2.5 or V3.2.2.3.3R1 or higher

R&S FPC1500 dont use FW 1.4; use FW 1.5 or higher

-info SIGLENT:

SSA PLUS do not use FW 3.2.2.6.2R10 (rd data=NAN), FW V3.2.2.6.2R5 is ok

SSA PLUS do not use FW 3.2.2.6.0R10 , FW V3.2.2.6.2R5 is ok

SSA 5000A actual FW 1.1.2.2.0 (FW2.0) is not working with emcview

-info OWON:

OWON Removed Owon from list of supported models

Limitations without license:

Measurements are recorded only up to 10MHz

Above 10MHz the graph will display a straight line at 0dBμV

General limitations:

Check the Function Matrix in the About menu for potential limitations, depending on analyzer model

Installation:

follow chapter 1 in the EMCview Manual

More History Details:

See Emcview menu "About" / "Whats New"

History:

EMCview V11.10 12.5.2026

Update:

additional correction files in transducer file library

Rigol RSA 6K added

Siglent SHA852A added

Preliminary Integration of UNI-T UTS7K

Integration of Siglent and UNI-T Signal Generators in preparation for upcoming -S License Option:
enabling the use of Signal Generators for immunity testing

preparation for upcoming -T License option: turn table control

Bugfix:

Workaround to fix Owon XSA1036 bug which mistakenly delivers QP amplitude values in dBm, when configured to dB μ V

Solve issue when performing immunity measurements Above 2.1 GHz

Removed Workaround after Siglent FW updates solved issue concerning dwell time setting for SSA-R and SSA+

EMCview V11.09 25.11.2025

Update:

additional correction files in transducer file library

Bugfix:

Workaround for SSA3000 Plus and SSA3000X-R series not operating correctly when remotely sweeping in QP-Mode

Fixing a bug introduced with V11.07 related to decimal separators in immunity mode

Workaround for issue that R&S FPC not always remotely activates the tracking generator

EMCview V11.08

Update:

Add support of ScientiFic SMS1000, SMS3000 analyzer series

Bugfix:

Workaround for SSA3000 Plus series not turning off the Tracking Generator remotely

Workaround for Siglent Analyzers Tracking Generator not working in EMI mode

EMCview V11.07

Update:

additional correction files

additional Standard: AIS-004 Part 3

optimisation of internal editor

Bugfix:

Workaround for bug concerning downloading of measurement data from SSA3000X-Plus FW 3.2.2.6.0R10 and FW 3.2.2.6.2R10

Color settings of margin lines

EMCview V11.00

Update:

CISPR 25 ESA project added

CISPR 15 updated

EN 61000-6-8 added

ISO 13766 added

CS114 added

Support of Keysight models N9321C, N9322C

Option to create Report in MS Word format

Formatting options for labels and markers

EMCview V10.02

Update:

CISPR 11 Project files updated

CISPR 14 Project files updated

IEC 60533 added

Additional transducers in compensation file folder

Support for latest Owon XSA models based on new HW/FW

Enable demo mode (up to 10MHz) for immunity Features for non PRO licenses

Add immunity pre-compliance testing for DO-160

Add immunity testing with freely programmable current ramps

During immunity testing, frequency information for synchronisation of external Software is available via UDP

SSA3000X: enable FW $\geq$ V1.3.9.10

Rigol RSA series and UNI-T analyzers: re-measure Set1 with Cisp Average detector

In chart, marker vertical line follows cursor

Bugfix:

dBCalc layout improved for HDR Monitors

Immunity: enable constant frequency measurement

R&S FPC: correct step size below 150kHz

Report: use Chart x-axis Units for the Header of Peak table

Workaround:

remove random spikes at RBW boundaries (150kHz, 30 MHz) for various analyzer models

When setting simultaneous measurement of two detectors, skip not supported detector combinations for RSA series

EMCview V09.19

Update:

Implementation of vertical marker lines

Bugfix:

solving an issue when saving correction files with the internal editor

Workarounds:

solving issue with recognizing SSA3000X analyzers with FW V1.3.9.10

Solving real-time measurement error of the first segment with 9kHz RBW, Peak Detector SSA3000X-R with FW V3.2.2.6.0R7

EMCview V09.18

Update:

Support for OWON NSY1015-TG, NSA1036-TG added

Installation option to install EMCview into Windows default paths

Bugfix:

reduce scpi speed to avoid communication errors when carrying out ISO 11452-4 immunity tests with DSA832

fix AVG detector setting error with DSA815 introduced with V9.03

Fix frequency error for peak re-measurement above 4.294 GHz

EMCview V09.17

Update:

ISO 11452-4 substitution method using directional couplers in Immunity mode (for PRO license only) added. Documentation updated

EMCview V09.14

Update:

Chinese language support added

EN 50121-2, EN 50121-3-1, EN 50121-3-2 added

CISPR 14, CISPR 25 updated

Line width of limit lines and margin lines can be adjusted in Setup Menu

ISO 11452-4 BCI immunity test based on substitution method added (for PRO license only)

Support of Siglent RF Signal generators for EMCview added (for PRO+GEN license only)

Bugfix:

Info display of required RF amplifier output power for BCI immunity tests corrected

User created report file template reloaded, when opening projects

"2 traces measurement" indicator removed from the play button, when changing to real-time measurement

EMCview V09.06

Update:

Support of UNI-T UTS3000 and UTS1000 spectrum analyzer series

Support of OWON NSA spectrum analyzer series

Improvement:

Screen scaling for high resolution displays

EMCview V09.00

Update:

Official release of EMCview PRO license with support of real-time analyzers

and conducted immunity features

EMCview V08.64

Bugfix:

dual trace feature re-enabled under EMCview standard license

EMCview V08.64

Update:

- Implementation of closed loop immunity test according to ISO 11452-4
- mouse wheel support for value editor
- png file export

Improvements:

- ISO / EN 61000-4-20 correlation
- CSV export
- Report generator

EMCview V08.54

Update:

- Import of CSV files, for format check example CSV in menu About/Whats New/HTMLsee
- Immunity feature of EMCview PRO: monitoring of injected current with RF current monitoring probe added
- workaround to adjust right window border, in case that the right section of the application window is cropped due to unfavourable scaling settings for HD displays, menu: File/Utilities/workarounds

Bugfix:

- bug controlling the RSA3015N in immunity mode
- increase measurement speed of RSA models
- workaround for RSA models concerning measurement issues with the first and second segment when using 200 Hz RBW
- correct application of the TEM-cell factor in EN 61000-4-20 feature

EMCview V08.48

Update:

- 3 EMC standards added and CISPR 15 updated according to the latest revision of the standard
- support for Multicomp MP700 spectrum analyzers added
- support for Siglent SSA5000A added

Bugfix:

- creating very short antenna factor files with internal editor causes error: fixed

EMCview V08.42

Update:

- beta integration of EMCview PRO license, which will add real time support for Rigol and Siglent analyzers,

conducted immunity testing and later on click rate analysis on top of the features of the standard EMCview license

For owners of a standard EMCview license, real time support only works in a demo mode up to 10 MHz. Immunity testing is greyed out.

Download the document FAQ_EMView V2_2.pdf and read chapter 30, 31 for more details.

- cosmetic improvements with respect to screen resolution issues

Bugfix:

- context menu for QP measurements restored for set 2 (got lost during implementation of EMCview Pro in previous version)

EMCview V08.36B

Update:

- fast pre-scan (not CISPR compliant!)
- configurable number of harmonics (in settings/options menu)
- configurable dwell time for QP re-measurement (for Siglent, Rigol, Owon; not for R&S)
- additional detectors: AVGRMS, AVGSCAL; for Rigol RSA models only
- update project files and docu files in \src and \docu folder
- configuration (settingsmenu) to add 107 dB to QP result for Siglent/Rigol/Owon FW versions where the QP result is delivered in dBm instead of dBμV

Bugfix:

- enable latest HW/FW version of SSA3000X series (requires update to Siglent FW V2.1.1.3R1 (Release Date 09.16.22))
- enable latest FW version of RSA series, V00.03.05

EMCview V08.30

Update:

- simultaneous measurement of two traces (Average and Peak detector) for Siglent SSA3000X, SSA3000X-Plus, SSA3000X-R (see EMCview FAQ document V1.10 chapter 27)

Bugfix:

-Workaround for the Siglent SSA3000X series with the HW branch using the FW 2.x.x.x branch.
However, it also requires updating

to a FW version v2.1.1.3R1 or higher -> download from Siglent website

EMCview V08.27

Update:

- simultaneous measurement of two traces (Average and Peak detector) for R&S FPC/FPH series (see EMCview FAQ document V1.10 chapter 27)

bug fix:

- fixed missing segment, when switching from 200Hz RBW to 9 kHz RBW for R&S FPC/FPH

EMCview V08.24

Update:

- additional standard: MIL-STD-461F

- additional standard: EN 61000-6-3

- additional standard: EN 61000-6-4

- Windows installer

- add peaks list and QP scan results when saving a measurement as chart

- add peak counter

- select number of Max-peaks (3...20)

- save generator settings

- save settings of 61000-4-20 TEM cell correlation feature

- allow frequency resolution < 1 kHz in compensation files
- higher marker resolution at low frequencies
- use final scan (re-measurement) RBW settings from the segment files, instead of strictly using CISPR 16 specification
- enable automatic start of final scans
- draw harmonic lines which are fractions of the selected spurious or multiple of the selected spurious (shift-click the Harmonics checkbox to toggle mode)

bug fix:

- corrected a few project files

EMCview V08.15

Update:

- EN61000 menu
- FPC & FPH re-measurement function

bug fix:

- re-measurement drift mode PA/ATT settings
- FPC & FPH only showing graph after pressing DISPLAY PEAKS button
- empty SRC folder after update on WIN 7

EMCview V08.12

Features:

- new installation routine
- marker features polished
- file menu polished
- updated CISPR 25 limits to latest standard
- added correction files for Hameg LISN
- support for high resolution displays

bug fix:

- bug in fader feature fixed (when running the fader, without any measurement data present)
- removed a (meaningless) error message on the display of certain DSA models, during peak re-measurement

EMCview V08.04

Features:

- added support for TheEMCshop spectrum analyzers, model ESAXG and RESAXG
- include trace 1, 2, 3 to chart file
- include meta data to chart file
- update configuration files
- zoom harmonic lines

EMCview V08.00

Features:

- simplified user interface and optimization of spurious re-measurement with QP detector.
- read chapter 20 of the EMCview FAQ document for the QP measurement procedure

EMCview V07.11

bug fix:

- Workaround for RSA3K and RSA5K series workaround for SCPI time out when connected via ethernet;
- Workaround for RSA3K and RSA5K series concerning erratic behavior of QP detector at 120 kHz RBW

EMCview V07.10b

Features: select license file in about menu (for users of multiple spectrum analyzers/licenses)

bug fix:

- Workaround for Siglent SSA X series FW 1.3.9.7(not SSA Plus/SSA-R): remove 107 dB offset in QP mode, workaround for Peak search feature

EMCview V7.10

Features:

- Auto Repeat and Max Hold feature implemented; to be activated in the Settings/Options menu
- IEC / EN 60945 standard added

bug fix:

- workaround for Siglent SSA (not SSA Plus/SSA-R) FW 1.3.9.7: as 1MHz CISPR filter is not implemented in these models,

EMCview activates 1 MHz Gaussian filter instead

EMCview V7.09b

bug fix:

- bug fix for Siglent SVA with respect to selecting appropriate routines for different FW versions

EMCview V7.09

bug fix:

- bug fix for Rigol DSA832 and DSA875 FW 00.01.06, which reversed the byte order of the measurement data

EMCview V7.08

Features:

-experimental implementation of near field to far field conversion for GTEM cells and TEM cells according to

standard EN 61000-4-20

EMCview V7.07

bug fix:

- added support for Siglent SSA series FW 1.3.9.5

- removed dBm to dB μ V conversion workaround which caused a 107 dB offset for RSA3K series FW 03.01 and higher

EMCview V07.06

bug fix:

- removes a bug caused by RSA3K and 5K series analyzers, which automatically set the internal attenuation to 20 dB when turning the pre-amplifier on

EMCview V07.05

Features:

-antenna calculator in Tool menu

bug fix:

- removed an issue which could cause a memory access error in the fader routine

- removed an issue causing wrong margin values displayed when MAX FILTER was activated

- Disabled workaround for Siglent SSA series FW>=1.3.9.6 after a bugfix in FW 1.3.9.6

EMCview V07.04

bug fix:

- remove work around which causes a 107 dB measurement result offset for SSA+/SVA models with FW 2.2.1.2.7
- fixed issue which causes the graph not to be displayed above 2.2GHz under certain circumstances
- corrected AVG settings for Siglent analyzers - use voltage AVG instead of PWR AVG
- Siglent analyzers: set preset to default mode and restore preset when closing EMCview
- corrected RBW settings for FCC15 segment files from 1GHz to 6GHz

EMCview V07.03

bug fix:

- directory names of SRC folder shortened upon customer request:

Directory "Conducted Noise" -> "CN"

Directory "Radiated Noise" -> "RN"

- cable compensation file "testcable.cac" had incorrect attenuation and was corrected
- workaround which internally converted dBm to dBμV was removed for Siglent SSA-Plus, SVA and SSA-R
after Siglent FW V2.2.1.2.8 and higher
- With Siglent FW 2.2.1.2.8 introduced a new EMI measurement mode and at the same time essential SCPI commands necessary for the operation of EMCview disappeared. A solution for FW 2.2.1.2.8 is under discussion

EMCview V07.01

bug fix:

- bug fixed, where default path for loading projects pointed to \out\ directory instead to \src\ directory

EMCview V07.0

Features:

- auxiliary limit lines, see manual or FAQ document
- new src folder structure; see readme1st.txt for installation/update instructions
- new document folder, containing manuals, application notes and project file documentation
- FCC 15 projects and documentation added
- all CISPR standard related project files reworked, new projects added and documented
- feature to move markers and peak markers to front or back

bug fix:

- 2.1 GHz tracking generator frequency limitation removed

bug fix:

- workaround for RSA30xxE max peak unit bug (dBm to dBμV conversion done by EMCview)

EMCview V06.10

Features: first implementation for Rigol RSAxxxxN series

- bug fix: workaround for RSA30xxE max peak unit bug (dBm to dBμV conversion done by EMCview)

EMCview V6.07

Features:

- BK Precision spectrum analyzer models 2682, 2683 added

- Teledyne LeCroy spectrum analyzer models T3SA3100, T3SA3200 added

- calculation of radiated noise of cables based on measured common mode current

- bug fix: a workaround in EMCview, which fixes a firmware bug of RSA3K and RSA5K models, prematurely removed in FW 5.38 was reactivated (fixes

- a 107 dB offset problem, caused by the RSA3K and RSA5K always transmitting measurement values in dBm, independently of the amplitude unit setting)

EMCview V6.03

- bug fix: removes a workaround in EMCview, which causes a 107 dB offset after an undocumented bug fix in SSA3021/3032X Plus Firmware – V2.2.1.2.7

EMCview V6.01

Features:

- Screenshot feature for graphs added (copy to clipboard button)

- Time Stamp label added

- Project stamp label added
- Settings / Options menu: option to keep segments of old measurements instead of overwriting it with a straight line when measuring selected segments
- Settings / Options menu: option to enable a selection box for consecutive measurement of set 1 and set 2
- Settings / Options menu: option to display a warning, when the communication link between analyzer and PC is disrupted
- Mode menu: integration of a dB converter

Improvement:

- detection of Rigol analyzer models based on get info content instead based on serial number

EMCview V5.49

Improvement:

- workaround for a Siglent SSA FW bug where the stop frequency setting is lost when changing RBW from 200Hz to 9kHz.

EMCview V5.48

Features:

- Generator feature enabled for R&S FPC and FPH analyzers
- integration of OWON HSA series prepared (yet needs a FW update of the HSA analyzers to enable all features)
- Enable saving raw data of charts
- math function: merge two traces to create a worst case trace
- remote control of external serial devices such as for example relays with serial interface for antenna or external attenuator switching

Improvement:

- bug fix in generator mode concerning manual frequency stepping

EMCview V5.38

Features:

- Options dialog in Setup Menu: set the default output path for saving charts, etc.
- Options dialog in Setup Menu: set sweep steps in % for generator mode
- Support of Rigol RSA30xxE spectrum analyzers: no extra ini file needed any more for this models
- Support of Siglent SSA+ and SVA FW 2.2.1.2.5

EMCview V5.34

Features:

- Right click project, limit or segment files within EMCview to open it in text editor for editing. Needs pressing the reload project button after editing/saving

Improvement:

- Workarounds to establish compatibility with Siglent SVA or SSA+ series with firmware V2.2.1.2.5
- for RSA3015E (RSA3015?) turn off a workaround which is necessary for the other models of the RSA3K and RSA5K. This requires copying a provided ini-file into the EMCview directory which turns off the RSA3K/5K workaround for RSA3015E
- Workarounds for Rigol DSA1030 and DSA1030A

EMCview V5.28

Improvement

- Support of new serial number block of DSA875

EMCview V5.24

Improvement

- Access to generator menu blocked during EMC measurement run

EMCview V5.23

Features

- Siglent SSA-plus analyzers added

EMCview V5.21

MS signature added

EMCview V5.20

Features

- Siglent SVA added; requires SVA FW V2.2.1.2.1 or higher
- OWON SXA added
- improved performance with Siglent SSA; requires SSA FW V1.2.9.3a or higher
- left side of the graph window can be pulled horizontally
- custom labelling of markers and graphs
- selection of VBW; either Auto or 3*RBW
- dBm calculator added (first in a series of calculators to be added)
- updated report dialog

Improvement

- cosmetic update of UI
- report only lists selected peaks
- higher frequency axis resolution
- peak re-measurement RBW default values changed to CISPR RBWs

Bugfix

- "Reload project files" button: add files which were edited or created during the ongoing EMCview session
- frequency steps in CSV file corrected
- correct use of last frequency point of cable correction file

EMCview V4.12

Bugfix

- spectrum analyzer model recognition routine corrected

EMCview V4.11

Features

- Rigol RSA 3K added

EMCview V4.10

Features

- R&S FPC1500 added

EMCview V4.09

Features

- improved mail alert feature; using this feature requires download of two free dlls from internet and copy into EMCview folder; see About/Whats New Menu in EMCview for more details

EMCview V4.07

Features

- mail alert after measurement completion added

Bug fix

- removes correction files correctly, after disabling it during run time

EMCview V4.05

Features

- save Peak lists as text file
- Fader, subtract ambient noise
- add, subtract, multiply or divide selected traces
- improved tracking generator control UI
- manual frequency and amplitude stepping in TG mode

Bug fix

- bug concerning update of modified correction files during runtime of EMCview (reload project button)
- bug concerning window handling in TG mode

EMCview V4.03

- Supports DSA815 and 700 series FW1.19

EMCview V4.00

Features

- support for R&S FPC and FPH series analyzers (requires installation of "R&S INSTRUMENTVIEW" and connection over usb cable with "SA TCP" IP=172.16.10.10; do not connect over lan, response time is too slow)
- support for Rigol RSA analyzers
- harmonics indicator lines
- tracking generator control mode for immunity testing (supports Rigol and Siglent analyzers)
- additional reference traces
- move reference traces to the foreground/background
- allow re-sizing of main window
- manual setting of markers
- copy manual markers into the peak measurement box
- selection of amplitude units

Bug fix

- bug concerning chart axis text
- bug with Siglent analyzers when using 200Hz RBW and QP detector
- corrected sign error when compensating using *.amp files
- accept decimal values in *.amp files
- removed quasi measurement mode due to various shortcomings of the analyzers

EMCview V03.00

Features

- quasi measurement receiver mode: emi zero span (not working with SIGLENT FW 1.2.8.5a)
- rf coverage measurement mode
- optional peak measurement at the exact frequency (not considering potential frequency drift)
- multiple licence support
- segment selection

-added reload project button

EMCview V02.03

Features

-color settings for peak markers

Improvement

-disable configuration during peak measurement

Bug fix

-correction of peak measurements

-removed "unknown DSA" message when connecting DSA832

EMCview V02.02

Features

-trial mode: limitation @ 10MHz

-added support for "ATT auto" in segment file

Bug fix

-detector selection POSPEAK NEGPEAK in segments dialog

EMCview V02.02

improvement

-turn on autocalibration after measurement

EMCview V02.01

Features

- tcp connection supported
- beta support of Siglent SSA
- Peaks ListBox: checkbox for searching 6 maximum peaks in Set1&2
- Set2 allow measure on selected peaks
- button "clear trace" added to bottom of the graph
- button "clear all" added to bottom of the graph
- info display: new message: estimated time of segment data in measure set2
- report: added RBW and measurement time

Bug fix

- peak detector selection in Edit Segments Dialog
- trace file info display fixed on top of the graph

EMCview V01.02

Features

- Column "Margin" in the peak list of the measurement report shows delta to the limit line (or margin line, if set)

Improvement

- faster termination of the measurement upon pressing the stop measurement button

Bug fix

- missing values in peak list of measurement report