Tektronix

PWRVIEW
Version 3.1.0 Software Release Notes

Contents

General Information

Overview

PWRVIEW is a supporting software application for Windows PCs that compliments and extends the functionality of Tektronix Power Analyzers.

PWRVIEW enables you to do the following:

- Communicate with Tektronix Power Analyzers over any of the instrument's communication ports (USB, GPIB, Ethernet)
- Change instrument settings remotely
- Transfer, view, and save measurement data in real-time from the instrument, including user-defined high/low limits, waveforms, harmonic bar charts, and plots
- Log measurement data over a period of time or with manual trigger
- Communicate with and download data from multiple instruments simultaneously
- Create formulas for the calculation of power conversion efficiency and other values
- Export measurement data to .csv format for importing into other applications
- Automate instrument setup, data collection, and report generation for key applications with just a few clicks, using wizard-driven interfaces
- Perform automated full compliance testing for Low Power Standby per IEC62301 ED 2.0, IEC61000-3-2 Current Harmonics and MIL-STD-1399 Section 300B

Supported models

PWRVIEW is intended for use with the following Tektronix product models:

- PA1000
- PA3000
- PA4000

Minimum system requirements

The minimum system requirements for running PWRVIEW are:

- Windows 7 or 8.1
- 2 GHz or faster 32-bit (x86) or 64-bit (x64) processor
- 2 GB RAM (minimum), 4 GB RAM (recommended)
- Minimum display resolution of XGA (1024 x 768)
- TekVISA version 4.0.4.2 or later, or NI VISA version 5.2.0 or later

Installation instructions

Running PWRVIEW requires the use of a VISA layer software. Either TekVISA or NI VISA is supported. TekVISA is available for free download from the Tektronix website at http://tek.com. If you do not have VISA installed on your computer, or if your VISA version does not meet the minimum requirements, download and install the latest version of TekVISA before installing PWRVIEW.

Next, determine if your computer is running a 32-bit or 64-bit version of Windows. To find out, do the following:

1. Open System by clicking the **Start** button, right-clicking **Computer**, and then clicking **Properties**.
2. Under **System**, you can view the system type.

Once you know whether your computer is running a 32-bit or 64-bit version of Windows, go to the Tektronix website at http://tek.com and download the latest version of PWRVIEW. If your computer is running a 32-bit

version of Windows, download the 32-bit version of PWRVIEW. If your computer is running a 64-bit version of Windows, download the 64-bit version of PWRVIEW.

Double-click the downloaded file and follow the installation prompts to install PWRVIEW on your computer.

Version 3.1.0 Release

Overview

Version 3.1.0 is a feature enhancement release of the PWRVIEW software.

Critical fixes

CR514272 **Symptom:**

The database file becomes corrupted if you do the following:

1. Record measurements that include formulas.
2. Delete the newly recorded measurements that include formulas.
3. Record another measurements that include formulas.

Once the database is corrupted, trying to export the recorded measurements that include formulas will cause PWRVIEW to stop working.

Resolution:

This issue has been corrected.

Enhancements

CR461478 **Enhancement:**

The dialog window for retrieving test results in the database has been improved. In addition to showing test date and time, the list now also shows “Test Type” and “Product” columns.

If you hover the mouse over an entry, a tooltip appears to show the “Test Officer”, “Laboratory”, and “Customer” information.

Click on the column header to sort the list according to “Test Type”, “Test Date and Time”, or “Product”. Click on the column header again to toggle between ascending and descending order.

You can also drag the column header to the right or left to change its position in the table.

CR504306 **Enhancement:**

In IEC 62301 Standby Power test, you can now select a fixed range for the Current Channel. If an over-range is detected during test, the test will be stopped and a warning message will be shown.

CR507768 **Enhancement:**

Support for PA3000 is added. In addition to PA1000 and PA4000 models, PWRVIEW now supports PA3000 power analyzers.

CR510462 **Enhancement:**

Workflow is modified to make PWRVIEW easier to use. You can now run PWRVIEW in one of two modes: Measure or Test. Select the desired application mode in the Setup tab’s ribbon menu.

In Measure mode, you can select and run any of the available measurement applications, such as General AC Power, LED Driver, Ballast, PWM Motor Drive, Energy Measurements, and Standby Power Measurements. The Efficiency, Limits, and Upload Settings are enabled; and the Measure tab is visible. However, you cannot select any of the compliance tests and the Test tab is hidden.

In Test mode, you can select and run any of the available compliance tests, such as IEC 62301 Standby Power, MIL-1399 Current Harmonics, and IEC 61000-3-2 Current Harmonics. The Test tab is visible but the Measure tab is hidden. The Efficiency, Limits, and Upload Settings, as well as Auxiliary Inputs and Measurement Selections, are disabled.

On multi-channel instruments, only 1p2w wiring configuration is available while in Test mode. You can select which channel to run the test on by selecting the channel's radio button. In Measure mode, all applicable wiring configurations are available as before.

In both Measure and Test modes, access to the recorded measurements and test results in the database is available through the Results tab. The results selection will default to the currently selected mode. You can change the selection to access any of the recorded measurements or test results in the database.

CR510859 **Enhancement:**

You can now have more than one Trend graph in the Measure tab. There is no individual limit for each graph type. However, there is a limit on the total number of all graph tabs displayed in the Measure tab. The limit is three times the number of channels configured for measurements in PWRVIEW. This limit provides you with the flexibility to display up to one graph for each graph type (Harmonics, Waveform, and Trend) for each channel, or any other desired combinations.

CR511449 **Enhancement:**

The Network Add dialog accepts period ('.') when entering IP Address. You can simply type in the IP Address, for example `10.250.140.203`, without having to use tab or arrow key or your mouse to advance to the next field.

CR514156 **Enhancement:**

A new option ("Log Data Manually") is added in the Data Logging Setup. When this option is selected, a "Log" button is displayed on the status bar during data recording. Data logging occurs each time the "Log" button is pressed. The number of recorded data shown on the status bar is also incremented each time the "Log" button is pressed.

CR514823 **Enhancement:**

The Stop button is now also available on the status bar when you are in the Results tab. You now have the flexibility of stopping measurement/test from any tab (Setup, Measure, Test, or Results tab).

Noncritical fixes

CR461337 **Symptom:**

Running 32-bit PWRVIEW on computers with 64-bit Windows causes PWRVIEW to stop working.

Resolution:

This issue has been corrected.

CR477365 **Symptom:**

While adding a new entry for Laboratory, the add ("+") button is permanently disabled when Cancel button is clicked. The same problem also occurs when adding a new entry for Customer and Product.

Resolution:

This issue has been corrected.

CR484944 **Symptom:**

Formula logging is done twice: once every 1 second interval and once every specified interval in log setup.

Resolution:

This issue has been corrected.

CR495575 **Symptom:**

Incorrect error message is shown when an unsupported version of NI VISA is detected on 32-bit computer. The error message says that no VISA is installed.

Resolution:

This issue has been corrected.

CR502330 **Symptom:**

CSV export of measure results in the database using the ‘:’ character between second and millisecond on the time stamp. This creates problems when graphing exported measure results in Excel because the default Excel format is ‘hh:mm:ss.xxx’.

Resolution:

This issue has been corrected.

CR503473 **Symptom:**
CR503474

When over-range occurs and the instrument is already at the highest range, test is not aborted and there is no error or warning message displayed. This affects IEC 62301 Standby Power and MIL-1399 Current Harmonics tests.

Resolution:

This issue has been corrected.

CR504881 **Symptom:**

In Measure tab, Harmonics graph tooltips are not displayed on mouse-over if measurements are running.

Resolution:

This issue has been corrected.

CR505333 **Symptom:**

Reset during efficiency trending causes PWRVIEW to stop working.

Resolution:

This issue has been corrected.

CR505339 **Symptom:**

Applying Low Power Standby application after AC Power does not clear Athd measurement selection on the PA1000.

Resolution:

This issue has been corrected.

CR505451 **Symptom:**

Trend graph does not update for Vrms when Trend tab is not active.

Resolution:

This issue has been corrected.

CR506229 **Symptom:**

In MIL-1399 test with 400 Hz fundamental frequency, limit values above 20 kHz (50^{th} harmonics) are displayed if a MIL-1399 test with 60 Hz fundamental frequency was previously run. The standard only defines limit values up to 20 kHz.

Resolution:

This issue has been corrected.

CR509022 **Symptom:**

Duplicate IP addresses can be entered into the list of instruments to search for.

Resolution:

This issue has been corrected.

CR509229 **Symptom:**

Efficiency setup configuration is not restored correctly when multiple instruments are configured.

Resolution:

This issue has been corrected.

CR509288 **Symptom:**

A warning message stating that the publisher could not be verified is shown when running the PWRVIEW installer software.

Resolution:

This issue has been corrected.

CR509441 **Symptom:**

If the instrument is turned off while measurement or test is running, no error message is displayed.

Resolution:

This issue has been corrected.

CR509801
CR512120 **Symptom:**

There is no warning when you close/exit PWRVIEW and you have unsaved changes in Test Details (Laboratory, Customer, and/or Product).

Resolution:

This issue has been corrected.

CR509895 **Symptom:**

Overflow (OVR) measurements are displayed as ordinary zero values.

Resolution:

This issue has been corrected. Overflow measurements are now displayed with an orange blinking “OVR”.

CR509979 **Symptom:**

Firmware version field (on connected instrument) is not updated when PWRVIEW is launched.

Resolution:

This issue has been corrected.

CR510332 **Symptom:**

Selecting certain measurement types (without selecting any other measurement types) results in a blank measurement value. Affected measurement types are: Apk-, Apk+, WHarm, and Distortion Factor.

Resolution:

This issue has been corrected.

CR510811 **Symptom:**

In IEC 61000-3-2 Current Harmonics test, the calculated limit values are not kept at 5 mA or higher as described in a clause in section 6.2.3.4 of the standard.

Resolution:

This issue has been corrected.

CR510930 **Symptom:**

When there are no instruments added, irrelevant widgets in Measure tab are not disabled. This includes Reset, Limits Setup, SnapShot, and Record buttons, as well as Significant Figures, Averaging, and Zero Blanking.

Resolution:

This issue has been corrected.

CR511383 **Symptom:**

Navigating Recent Projects list using arrow keys can cause PWRVIEW to stop working.

Resolution:

This issue has been corrected.

CR511439 **Symptom:**

When a test result is displayed in the Results tab, there is a “View after creation” checkbox at the bottom of PDF Reports and Export CSV sub-menus. Clicking the “eye” icon next to the checkbox causes PWRVIEW to stop working.

Resolution:

This issue has been corrected.

CR511585 **Symptom:**

Harmonics and Waveform graph settings (for example, the vertical scaling sliders) are not retained when switching tabs.

Resolution:

This issue has been corrected.

CR511904 **Symptom:**

The File → Save menu behaves identical to the File → Save As… menu.

Resolution:

This issue has been corrected.

CR511918 **Symptom:**

PWRVIEW can be terminated while running measurement or test without showing any warning messages or asking for confirmation.

Resolution:

This issue has been corrected.

CR512478 **Symptom:**

Opening a project file shows a warning message that the current settings will be overwritten even though PWRVIEW is already in a clean Default Project state (without any project loaded and without any instruments added).

Resolution:

This issue has been corrected.

CR512479 **Symptom:**

The Default Project menu option is not disabled even though PWRVIEW is already in a clean Default Project state (without any project loaded and without any instruments added).

Resolution:

This issue has been corrected.

CR512482 **Symptom:**

When a project file with multiple instruments is loaded, PWRVIEW does not restore the instrument selected for a test when the project file was created. Instead, PWRVIEW incorrectly selects the last instrument loaded for the test.

Resolution:

This issue has been corrected.

CR512681 **Symptom:**

Some settings are not restored correctly when saved to a project file. Examples include current range, averaging, and zero blanking.

Resolution:

This issue has been corrected.

CR512773 **Symptom:**

If instrument stops communicating, compliance test will never complete. PWRVIEW waits forever without displaying any error messages until the test is stopped.

Resolution:

This issue has been corrected.

CR512910 **Symptom:**

The “50kHz” filter option is not hidden when connected to a PA1000 with an older firmware that does not support the option.

Resolution:

This issue has been corrected.

CR513208 **Symptom:**

PWRVIEW does not recognize loss of connection when USB is removed. It keeps on running until measurements are physically stopped.

Resolution:

This issue has been corrected.

CR514182 **Symptom:**

PWRVIEW is designed to optimize the uploading of configuration settings to the instrument. If it does not detect any changes in configuration settings since the last upload, it will only send a subset of the configuration commands to minimize the configuration time. This optimization is not working when current range is “Auto Up Only”.

Resolution:

This issue has been corrected.

CR514199 **Symptom:**

In IEC 62301 Standby Power test, Filter selection is disabled on the PA3000 and PA4000. It should be enabled the same way as on the PA1000.

Resolution:

This issue has been corrected.

CR514276 **Symptom:**

Opening a project file brings up the configuration settings user interface but does not bring the ribbon menu to the Setup tab.

Resolution:

This issue has been corrected.

CR514315 **Symptom:**

The waveform graph's volts slider does not work when Current or Power is unchecked.

Resolution:

This issue has been corrected.

CR514357 **Symptom:**

Formula data is not captured in snapshot.

Resolution:

This issue has been corrected.

CR514574 **Symptom:**

Changing the order of measurements on the instrument through its front panel can cause misplaced measurement results in PWRVIEW (for example: Vrms values are displayed as Watts) or cause PWRVIEW to stop working.

Resolution:

This issue has been corrected.

CR514826 **Symptom:**

LED Driver Output Wizard selects 1 A shunt when 1.4 A is entered as the expected output peak current. Since LED drivers have DC output current, this could result in blowing the fuse on the 1 A shunt.

Resolution:

This issue has been corrected.

CR525244 **Symptom:**

In Integrator mode, stopping measurement does not stop integration.

Resolution:

This issue has been corrected.

CR525457 **Symptom:**

Default settings for Standby Power application is auto-range for both volts and amps. This results in zero current every time the instrument performs auto-ranging.

Resolution:

This issue has been corrected. The default settings is now "Auto Up Only" for current range. In addition, zero blanking will be turned off when you apply the Standby Power application.

CR525461 **Symptom:**

Default settings for Energy Consumption application is auto-range for both volts and amps. This results in gaps in integration measurement results every time the instrument performs auto-ranging.

Resolution:

This issue has been corrected. The default settings is now "Auto Up Only" for current range.

Known issues

CR506350 **Symptom:**

Elapsed time can be several seconds greater than the specified test duration when MIL-1399 test is run using Ethernet. This is because each measurement data in MIL-1399 test takes more than four seconds to read from the instrument using Ethernet.

Workaround:

Run MIL-1399 test using USB.

Version 1.1.8 Release

Overview

Version 1.1.8 is a maintenance release of PWRVIEW. This version addresses an issue with a newer version of TekVISA.

Critical fixes

CR513203 **Symptom:**

PWRVIEW fails to detect VISA layer on computers with TekVISA version 4.1.0.

Resolution:

This issue has been corrected.

Enhancements

There were no enhancements included in this release.

Noncritical fixes

There were no noncritical fixes included in this release.

Version 1.1.7 Release

Overview

Version 1.1.7 is a feature enhancement release of PWRVIEW.

Critical fixes

There were no critical fixes included in this release. See the “Enhancements” and “Noncritical fixes” sections for more information about release content.

Enhancements

E-1 **Enhancement:**

PWRVIEW now supports current harmonics IEC 61000-3-2 pre compliance test for PA1000 power analyzers.

Note: You can use either USB or GPIB for running the test. Ethernet is currently not supported for running IEC 61000-3-2 pre compliance test.

Noncritical fixes

There were many noncritical fixes included in this release to improve the overall system robustness and performance.

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