

# TSOVu™ Customer Release Notes

Version: 1.2

Last Revised: March 3, 2021

Product: This software supports TSO 8 Series products

## Description

TSOVu is a PC software application for operating a TSO820 equivalent time oscilloscope mainframe. This release supports a mainframe with any of the following modules installed:

- TSO8C17
- TSO8C18

TSOVu can also be run without a mainframe; In the offline mode, TSOVu can be used to support reading and processing of saved waveforms.

## Version Release Description

V1.2
This release has the following updates: <ul style="list-style-type: none"><li>• New NRZ eye measurement plugin V1.3</li><li>• PAM4 measurement plugin V1.3 updates<ul style="list-style-type: none"><li>○ Added units support (signal ordinate and dBm) for OMAouter</li><li>○ Added units support (W and dBm) for AOP in PAM4 Summary results</li><li>○ Added dB unit support for Ceq present in TDECQ results</li></ul></li><li>• TSOVu V1.2 updates<ul style="list-style-type: none"><li>○ Vertical Autoset</li><li>○ Horizontal Eye Auto Position</li><li>○ Mask test</li><li>○ Vertical thumbnail displays the vertical digitizing range and offset relative to the signal</li><li>○ User-defined wavelengths</li><li>○ Measurement report generation</li><li>○ Histogram result table</li><li>○ Support for remote oscilloscope mainframe firmware upgrade</li></ul></li></ul>
V1.1
This release has the following updates: <ul style="list-style-type: none"><li>• PAM4 measurement plugin V1.2<ul style="list-style-type: none"><li>○ Added PAM4 Summary measurement</li><li>○ Improved TDECQ measurement speed</li></ul></li><li>• TSOVu updates for measurement speed improvement</li></ul>

## PC System Requirements

Install TSOVu on a PC with the following specifications.

Item	Requirement
Operating System	Microsoft® Windows 10, 64-bit
CPU	Recommended: AMD Ryzen 7 or Intel i7 class CPU with 4 core / 8 thread. Minimum: AMD Ryzen 5 or Intel i5 w/ hyperthreading
Memory	16 GB recommended
Disk	256 GB SSD or more
Networking	1 Gigabit Ethernet wired

## **Other Software Requirements**

You must install MATLAB® Compiler Runtime version 9.3 on to the host PC. Go to MathWorks ([www.mathworks.com/products/compiler/matlab-runtime.html](http://www.mathworks.com/products/compiler/matlab-runtime.html)) to download and install it.

## **Product Upgrades**

From time to time Tektronix releases new versions of the product software or optional application software. Customers can download these from the Tektronix web site at [www.tek.com/oscilloscope](http://www.tek.com/oscilloscope).

## **Contacting Tektronix**

One method to receive timely information on new software updates, new products from Tektronix and other useful information is through a MyTek account. To join MyTek, please visit [www.tek.com/mytek](http://www.tek.com/mytek).

For application-oriented questions about Tektronix measurement products, please call Product Support. In North America call 1-800-833-9200 option 3, Monday-Friday, 6:00AM - 5:00PM Pacific Time or contact us by email at [techsupport@tektronix.com](mailto:techsupport@tektronix.com).

For service support call 1-800-833-9200 option 2, Monday-Friday, 5:00AM-5:00PM Pacific Time or contact us by email at [meas-svc-feedback@tektronix.com](mailto:meas-svc-feedback@tektronix.com)

Outside of North America: please contact your local Tektronix Sales or Distributor office. Refer to our web site at [www.tek.com](http://www.tek.com) for listings of those offices.

For all other information call 1-800-833-9200, visit our web site at [www.tek.com](http://www.tek.com), or write to us at:

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## Resolved Issues

The following issues were resolved in V1.2:

Identifier	AP-7427
Headline	Acquisition count cleared when changing vertical scale
Description	Changing vertical scale resets acquisition count and clears accumulated data.
Status	Fixed in V1.2 release.

Identifier	AP-7340
Headline	Incorrect histogram on live acquisition with nonzero position when toggling Horizontal->Pattern Sync mode
Description	Acquire signal with Pattern Sync ON and enable histogram. Then switch off pattern sync. Notice that histogram display and statistics are incorrect.
Status	Fixed in V1.2 release.

Identifier	AP-7578
Headline	Recall Waveform Returning Early from *OPC?
Description	*OPC? returns before the recalled waveform is in the system.
Status	Fixed in V1.2 release.

Identifier	AP-7528
Headline	When Pattern Sync is OFF with variable persistence enabled, the histogram #wfms goes beyond the user input variable persistence value
Description	When Pattern Sync is OFF with variable persistence, the histogram #wfms count exceeds the variable persistence setting.
Status	Fixed in V1.2 release.

Identifier	AP-7951
Headline	Connecting to mainframe or recalling a setup does not always restart acquisition
Description	Currently the system doesn't have an explicit command to restart a long acquisition-in-progress.
Status	Fixed in V1.2 release.

## Known Issues

The following list contains information on the functions associated with this software release. The current version has the following known issues and workarounds:

Identifier	AP-7282
Headline	Recalled Pattern Sync Off waveform not re-rendered when vertical position is changed
Description	If we save a Pattern Sync Off waveform with zero position, recall it and change position to a non-zero value, then the waveform does not move on the Waveform Display.
Workaround	This issue is a display issue only and does not affect measurements or histogram results. The problem will be addressed in the next release.

Identifier	AP-7443
Headline	Histogram don't work with persistence turned off
Description	Histograms don't work when Pattern Sync is OFF with data persistence turned off.
Workaround	Work around is to enable data persistence. The problem will be addressed in the next release.

Identifier	AP-8782
Headline	Disconnect from the mainframe sometimes cause PI to become unresponsive
Description	This problem happens only over PI. Set stop condition and start acquisition. Add and run measurements and then disconnect from the mainframe. *opc? times out and PI becomes unresponsive.
Workaround	Work around is to do a RST before the Disconnect command. The problem will be addressed in the next release.

Identifier	AP-8941
Headline	Adding TDECQ eye plots during acquisition results in empty plots sometimes
Description	This problem occurs when adding TDECQ measurements on all four channels and enable eye plots immediately while acquisition is running.
Workaround	Work around is to set up measurements and plots before starting acquisition or remove the empty plot and re-add it. The problem will be addressed in the next release.

Identifier	AP-9260
Headline	When Pattern Sync is disabled with acquisitions off, changing vertical scale does not update the waveform in the display
Description	This works well when Pattern Sync is enabled. However, when Pattern Sync is disabled with acquisition off and data shown in the waveform display, the waveform is unaffected by changes to the vertical scale until acquisitions are run again.
Workaround	Work around is to start the acquisition for vertical scale change to take effect. The problem will be addressed in the next release.