

Keysight InfiniiVision 6000A X Series Oscilloscopes

Version 7.30.2019051434

Released Date:	29 May 2019
Instrument software version:	Revision 7.30.2019051434
File Name:	6000XSeriesT.7.30.2019051434.ksx

CAUTION

At the end of the upgrade process, the oscilloscope will automatically reboot to finish the installation. If the screen goes blank, or white during the upgrade, do not turn off the power, but rather, wait for the oscilloscope to reboot. Turning off the power during the upgrade could result in your oscilloscope becoming non-operational, requiring it to be sent to a Keysight service center to be repaired.

NOTE

Due to a lack of browser support for Java-based applications, support for the legacy Java-based remote front panel has been removed. A modern HTML5-based remote front panel is available.

New Features

This software revision includes the following new capabilities:

- Added support for the following new models:
 - o *D6000AUTA, D6000GENA, D6000AERA, D6000PWRA, D3000USBA, D6000BDLA*

Enhancements

This software revision includes the following new enhancements:

- Frequency Response Analysis (FRA):
 - o The sweep frequency range is no longer limited to decade values – it can now be set to any frequency within the WaveGen’s limits.
 - o The “points per decade” setting has been changed to “total points” for ease of use.
 - o Chart:
 - Minor gridlines for the horizontal axis are now shown to improve readability of the plot.
 - The chart’s horizontal display range is now independent of the Start/Stop Frequency setting in the Setup Menu.
- The full waveform data can now be exported while in Roll Mode.
- The `:wAV` subsystem now includes commands to download all segmented memory data in one shot.
- Measurement Trend Math can now be applied on Digital channels.
- The “:MEASure:YATX” and “:MEASure:TEDGe” measurements, previously a SCPI-only operation, are now accessible from the Measurement Menu.
- Added Slew Rate measurement.
- The Delay and count-based measurement can now be applied on Digital channels.

Bug Fixes

This software revision includes the following Bug fixes:

- Corrected the NRZ serial decode from having an extra bit than the frame size when the Start-Bit is 0.
- Corrected “:MEASure:DELay:DEFine” for not accepting a definition that includes the “FALLing” edge parameter.
- Corrected the Reference Waveform data (.h5) from incorrectly saving data with twice the delay where is a delay on the displayed waveform.
- Corrected “:MEAS:SHOW?” always returning “1” regardless of the actual state.
- Fixed various LIN LDF file-parsing bugs.
- Fixed various issues related to the N7026A probe.

Changes

- As of version 7.30, the VNC server software for the remote front panel functionality is no longer bundled with the scope software by default. Upgrading to 7.30 will not delete the VNC server software from the scope, but new scopes will no longer ship with the VNC server software installed. For scopes without the software installed, the Browser Web Control page will provide a link for installing the software.

Version 7.20

Released Date:	26 October 2017
Instrument software version:	Revision 7.20.20171026
File Name:	6000XSeries.7.20.2017102614.ksx

New Features

This software revision includes the following new capabilities:

- Added USB-PD (Power Delivery) triggering and decode option (DSOX6UPD).

Enhancements

This software revision includes the following new enhancements:

- Added a SPI decode control for MISO bit delay.
- Added SENT SPC support.
- Minimum Manchester baud rate was decreased to 500bps.
- Added remote commands for gain margin and phase margin.
- Added a FRA option to display either gain or phase separately.
- Added :DISPlay:MESSage:CLEar command to dismiss “File Saved Successfully” message.
- Added remote command for setting FRA single-mode frequency.
- FRA now allows up to 100 points-per-decade.
- Random trigger holdoff is now allowed in additional trigger modes.
- Added support to load reference waveforms programmatically.
- Added support for the N7026A probe.

Bug Fixes

This software revision includes the following Bug fixes:

- An issue with handling CAN DBC signed integers has been corrected.
- Two channel measurements made with the N2820A probe are now functioning correctly.

Version 7.10

Released Date:	10 April 2017
Instrument software version:	Revision 7.10
File Name:	6000XSeries.7.10.2017041001.ksx

New Features

This software revision includes the following new capabilities:

- Added CXPI triggering and decode option (DSOX6CXPI).
- Added Frequency Response Analyzer option (DSOX6FRA).
- Added Manchester/NRZ serial decode option (DSOX6NRZ).

Enhancements

This software revision includes the following new enhancements:

- The measurement system has been updated to provide more flexibility to support new measurements with more complex configurations. Some installed measurements will not be recallable if the setup (.scp) file was created with firmware prior to version 7.10.
- Users can now pick specific edges to be used by the Delay measurement.
- Bartlett is now supported as an FFT window choice.
- Added remote interface command logger.
- The UART serial decode now supports baud rates to 12Mbits/s.
- DVM and training signals are now standard features.
- Added random trigger holdoff feature.
- Added Channel Power, Occupied Bandwidth, Adjacent Power Ratio, and Total Harmonic Distortion measurements.

Bug Fixes

This software revision includes the following Bug fixes:

- Fixed an issue where in certain circumstances the Serial Lister would not properly display some UART data.

- Fixed an issue where in certain circumstances the Peak-Peak measurement was incorrect.

Oscilloscope Firmware Version 6.12

Release Date:	7 January 2016
Instrument software version:	Revision 6.12
File Name:	6000XSeries.06.12.2016010702.ksx

Enhancements

- Improved some German translations.

Bug fixes

- Fixed coordinate error during Zone Trigger demo.
- Fixed layout issue in Raster video dialog.
- Fixed Single not accumulating mask test results.
- Fixed color grade bin label order in Analysis Results save.

Oscilloscope Firmware Version 6.11

Release Date:	5 November 2015
Instrument software version:	Revision 6.11
File Name:	6000XSeries.06.11.2015103000.ksx

Enhancements

- Support has been added for the N7020A probe to operate on all four channels when the oscilloscope's hardware supports this. Contact your Keysight representative for service options if after installing this version of firmware your scope reports that a desired channel is not supported.
- Localization of more Help subjects and GUI text has been added.

Bug fixes

- Histogram display now works more reliably across segments when using the 'Analyze All Segments' capability
- A Device Clear sent over the USB interface will now work more reliably.
- Available selections for the bandwidth limit filters have been corrected.

Oscilloscope Firmware Version 6.10

Release Date:	22 July 2015
Instrument software version:	Revision 6.10
File Name:	6000XSeries.06.10.2015061700.ksx

New Features

This software revision includes the following new capabilities:

- DSOX6SENSOR - SENT serial triggering and decode option support has been added.
- DSOX6AUTO – Has been expanded to support CAN-FD signal trigger and decode capabilities, including ISO support.
- CAN-FD eye testing support has been added to DSOX6AUTO option.
- LIN Symbolic decoding support has been added to DSOX6AUTO option.
- DSOX6POWER option now includes Class D harmonics measurements, including mA/W.
- Control Loop measurements for gain and phase have been added to the DSOX6POWER option.
- DSOX6POWER option also supports Keysight's N7020A Power rail probe.
- Bitrate measurement has been added.
- Single shot capability has been added to the Waveform Generator.
- Adjustable phase has been added to dual WaveGen tracking and frequency tracking modes.
- N2804A/N2805A 100MHz/300MHz differential probe support has been added.
- N7020A Power rail probe support has been added.
- Gated FFT capability has been added.

- New math operator has been added - Envelope.
- New training signals have been added: Sine with Harmonics Distortion; Square wave with Sinusoidal Noise Coupling; SENT; CAN-FD; Keysight Arbitrary waveform.

Enhancements

- Product SW has been branded as Keysight.
- User configurable sidebar capability has been added.
- Annotations have been expanded to 10 annotations.
- Waveform label lengths have been increased to 32 characters.
- DSOX6POWER – Several new capabilities have been added.
- Real Time Eye usability improvements – allow scope control while running, added auto-setup function.
- Real Time Eye acquisition can now be stopped via remote front panel operations.
- Math now allows other 2 source math functions as a source for a subsequent 2 source math function.
- For InfiniiMax 1130 family of probes, support has been added for 2.2:1 differential SMA probe heads

Bug Fixes

- DSO6XPOWER – Several issues have been addressed.
- The Averaging math operator now handles the output of several other operators better (square root, low pass filter, high pass filter).
- In DSOX6AUTO, LIN2.x mode checksums are now calculated correctly.
- Histograms counts will now increment after a SINGLE acquisition.
- Long folder names on thumb drives are now supported.
- :HISTogram:WINDow:SOURce?- Now supports a CGRADE selection.

Oscilloscope Firmware Version 6.00

Release Date:	September 2014
Requirements category (e.g., instrument software version):	Revision 6.00
File Name:	6000XSeries.06.00.2014091001.agx

Initial Release

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