Keysight InfiniiVision 3000T X-Series Oscilloscopes

Version 7.60.2023080430

Release Date:	15 September 2023
Instrument software version:	Revision 7.60.2023080430
File Name:	3000T.7.60.2023080430.ksx

Bug Fixes

This software revision includes the following Bug fixes:

- Corrected SCPI query return result for :CHANnel<n>:BANDwidth?

Version 7.57.2023033130

Release Date:	17 April 2023
Instrument software version:	Revision 7.57.2023033130
File Name:	3000T.7.57.2023033130.ksx

Bug Fixes

This software revision includes the following Bug fixes:

- Corrected change in measurement value and probe attenuation for auto-attenuation probes when an acquisition is stopped. Applies to:

    o N7026A

    o DP0010A, DP0011A, DP0012A, DP0013A

    o PP0004A with PP0001A, PP0002A, PP0003A

- For analog channels, a $50\,\Omega$ impedance setting is no longer persisted when the scope power is cycled.

- Fixed FFT Analysis power measurements failing to start when installed using SCPI commands. Applies to:

    o :MEASure:FFT:ACPR

    o :MEASure:FFT:CPOWer

    o :MEASure:FFT:OBW

    o :MEASure:FFT:THD

Version 7.56.2022120226

Release Date:	15 December 2022
Instrument software version:	Revision 7.56.2022120226
File Name:	3000T.7.56.2022120226.ksx

Bug Fixes

This software revision includes the following Bug fixes:

- Corrected measurement results that indicate "No Signal" after executing a Single or Stopping an acquisition.

- Fixed DP0001A probe from reverting to 500:1 attenuation after executing a Single or Stopping an acquisition.

- Corrected SPI triggering on a serial data string > 32 bits.

Known Problems

This software revision includes the following known problem:

- Removed the following fix that was added in version 7.55.2022071828:

- Corrected change in measurement value and probe attenuation for auto-attenuation probes when an acquisition is stopped. Applies to:

  o N7026A
  o DP0010A, DP0011A, DP0012A, DP0013A
  o PP0004A with PP0001A, PP0002A, PP0003A

Version 7.55.2022071828

Released Date:	29 July 2022
Instrument software version:	Revision 7.55.2022071828
File Name:	3000XSeriesT.7.55.2022071828.ksx

New Features

This software revision includes the following new capabilities:

- Added support for the new 250MHz to 1.7GHz differential probes:

    o *DP0010A, DP0011A, DP0012A, DP0013A*

Bug Fixes

This software revision includes the following Bug fixes:

- Corrected setup file recall to retain labels in firmware releases after 7.55.

- Fixed phase measurement to measure from correct percentage point.

- Corrected change in measurement value and probe attenuation for auto-attenuation probes when an acquisition is stopped. Applies to:

    o N7026A

    o DP0010A, DP0011A, DP0012A, DP0013A

    o PP0004A with PP0001A, PP0002A, PP0003A

- Increased allowable maximum size of CAN .dbc symbolic files

Version 7.50.2021102830

Released Date:	12 November 2021
Instrument software version:	Revision 7.50.2021102830
File Name:	3000XSeriesT.7.50.2021102830.ksx

Bug Fixes

This software revision includes the following Bug fixes:

- Corrected issue where WaveGen inversion disappears at 50% duty cycle.

- Removed references to unsupported USB 2.0 hi-speed. USB 2.0 hi-speed is not supported by 3000T X-Series oscilloscopes.

- Corrected issue where remote command :WMEM1:SAVE MATH1 does not behave the same as the front panel operation.

- Fixed incorrect scaling issue with N282xA probes

- Corrected firmware update failure (AUX-V)

Version 7.40.2021031200

Released Date:	26 March 2021
Instrument software version:	Revision 7.40.2021031200
File Name:	3000XSeriesT.7.40.2021031200.ksx

New Features

This software revision includes the following new capabilities:

- Added support for the following new perpetual software licenses:

    o *D3000GENB, D3000AERB, D3000AUTB, D3000NFCB, D3000PWRB, D300USBB, D3000BDLB*

- Added support for the new Hi-Z+ passive probes and adapter:

    o PP0001A/2A/3A Hi-Z+ passive probes

    o PP0004A Hi-Z+ Adapter

Bug Fixes

This software revision includes the following Bug fixes:

- Corrected wrong number of points returned for the first acquisition after changing acquisition settings.

- Corrected remote segments (WAV:SEGM:ALL ON) in ASCII format sends the wrong amount of data

Version 7.35.2020120822

Released Date:	15 December 2020
Instrument software version:	Revision 7.35.2020120822
File Name:	3000XSeriesT.7.35.2020120822.ksx

New Features

This software revision includes the following new capabilities:

- Added enhanced security:

    o *DSOXT3SECA*

Enhancements

This software revision includes the following new enhancements:

- Chart serial signal for CAN, LIN, and SENT protocols.

- Measurement limit test available with any bundled software license that includes mask testing.

- Channel external scaling.

- In Averaging acquisition mode, "Single" makes the number of acquisitions to average, then stops.

- Web interface VNC authentication.

- Band-pass filter math function.

- SCPI command additions and changes.

- Initial condition option on integrate math function.

- USB test software.

- Delay measurements thresholds settings.

Bug Fixes

This software revision includes the following Bug fixes:

- Corrected CAN load counter freezes on SBUS2

- Restored Lister Data save option to the web interface.

- Corrected license files corrupted by email servers.

Version 7.31.2020012842

Released Date:	26 February 2020
Instrument software version:	Revision 7.31.2020012842
File Name:	3000XSeriesT.7.31.2020012842.ksx

New Features

This software revision includes the following new capabilities:

- Added support the new 400MHz high voltage differential probe:

  o *DP0001A*

Enhancements

This software revision includes the following new enhancement:

- Added the oscilloscope's Host ID to the About Oscilloscope dialog. The Host ID is used to redeem licenses.

Bug Fixes

This software revision includes the following Bug fixes:

- Corrected the D3000BDLA ultimate bundle license to include the NFC trigger option.

- Changed the My Support Subscriptions table to show N/A for the Support Expiration and Status of legacy perpetual licenses, versus Expired.

- Changed the Installed Options section of the instrument web page to show N/A for the Support Expiration and Status of a legacy perpetual license, versus Expired.

- Networked printing via CUPS print server works correctly.

Version 7.30.2019051434

Released Date:	29 May 2019
Instrument software version:	Revision 7.30.2019051434
File Name:	3000XSeriesT.7.30.2019051434.ksx

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 *D3000AUTA, D3000GENA, D3000AERA, D3000PWRA, D3000NFCA, D3000BDLA*

Enhancements

This software revision includes the following new enhancements:

- Added Digitizer Mode where you specify the sample rate and memory depth instead of having them automatically be determined by the time/division setting.

- Frequency Response Analysis (FRA):

    o The sweep frequency range is no longer limited to decade values.

    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 7.20.20171026

Released Date:	26 October 2017
Instrument software version:	Revision 7.20.20171026
File Name:	3000XSeriesT.7.20.2017102614.ksx

New Features

This software revision includes the following new capabilities:

- Added USB-PD (Power Delivery) triggering and decode option (DSOXT3UPD).

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 7.11.20170612

Released Date:	12 June 2017
Instrument software version:	Revision 7.11.20170612
File Name:	3000XSeriesT.7.11.2017061225.ksx

Bug Fixes

This software revision includes the following Bug fixes:

- Digital channel skew has been corrected.

- Horizontal scale indicators at the bottom of the graticule now update appropriately regardless of the chosen time reference.

- An issue with calibrating an N275XA probe has been corrected.

- An issue with the MEAS:RES query ignoring the count parameter has been corrected.

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Version 7.10.20170429

Released Date:	29 April 2017
Instrument software version:	Revision 7.10.20170429
File Name:	3000XSeriesT.7.10.2017042905.ksx

Bug Fixes

This software revision includes the following Bug fixes:

- Fixed an issue where the user's selected language was not remembered after the power was cycled.

- Fixed an issue where an attached mouse would not operate correctly after the power was cycled.

Version 7.10.20170411

Released Date:	11 April 2017
Instrument software version:	Revision 7.10
File Name:	3000XSeriesT.7.10.2017041130.ksx

New Features

This software revision includes the following new capabilities:

-   Added Frequency Response Analyzer option (DSOXT3FRA).

-   Added Manchester/NRZ serial decode option (DSOXT3NRZ).

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.

-   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 support to the NFC option for NFC-F reverse polarity triggering.

- 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.

Version 4.08

Released Date:	27 July 2016
Instrument software version:	Revision 4.08
File Name:	3000XSeriesT.04.08.2016071801.ksx

New Features

This software revision includes the following new capabilities:

- Added CXPI triggering and decode option (DSOXT3CXPI).

- Added NFC triggering option (DSOXT3NFC).

- Added frequency response analysis to Power Application (PSRR and Control Loop Response).

- Added FFT phase math operator.

Enhancements

This software revision includes the following new enhancements:

- Allow all time domain math functions to be loaded into waveform memories.

- Allow waveform memories to be used as sources for math functions.

- Added user-customizable labels for internal setup files.

- Added GUI indicator for channel invert setting.

- Added SCPI grammar for N2820 zoom and R-sense.

- Added option for a custom time reference location.

- Added "no length control" option to LIN 1.3.

- Improved WaveGen duty cycle granularity.

- Extended WaveGen pulse width limits to 1ns at frequencies >=25kHz.

- Extended probe attenuation ratio limits to 0.001 : 1 (-60dB).

- Power Application – Inrush Current - Added support for DC-input power supplies.

- Power Application – Turn-on/Turn-off - Added support for DC-input power supplies.

- Power Application – Turn-on/Turn-off - Added option to specify measurement threshold levels.

- Power Application – Current Harmonics – Added option to automatically determine line frequency.

Bug Fixes

This software revision includes the following Bug fixes:

- Fixed incorrect DVM values in rare circumstances after toggling channel states.

- Fixed error messages when loading CAN FD .dbc files with data fields longer than 8 bytes.

- Fixed crash when saving H5 files with long path strings.

- Improved I^2C decode reliability when SCL is acquired on a digital channel.

Version 4.07

Released Date:	20 April 2016
Instrument software version:	Revision 4.07
File Name:	3000XSeriesT.04.07.2016040803.ksx

New Features

This software revision includes the following new capabilities:

- Added remote interface command logger.

Enhancements

This software revision includes the following new enhancements:

- DVM now defaults to DC.

- Cursor state may now be set independently for each cursor.

Bug Fixes

This software revision includes the following Bug fixes:

- Improved USB device mode stability when booting.

- Fixed various LIN symbol file (LDF) parsing errors.

- Fixed 50Ω probe calibration issue with the Power Analysis application.

- Improved performance when entering the IO menu.

- Fixed FFT vertical units when using a 50Ω current probe.

Version 4.06

Released Date:	26 May 2015
Instrument software version:	Revision 4.06
File Name:	3000XSeriesT.04.05.2015051200.ksx

New Features

This software revision includes the following new capabilities:

- CAN-FD ISO support has been added to DSOXT3AUTO option.

- Control loop capability in the DSOX3POWER option now includes phase view.

Enhancements

This software revision includes the following new enhancements:

- Up to 10 annotations are now supported.

- mDNS On/Off state is now preserved through power cycles.

- Network connection latencies via Telnet or Socket SCPI ports are improved in some situations in networks without NetBIOS.

Bug Fixes

This software revision includes the following Bug fixes:

- LXI identifier now reports Keysight Technologies.

- DVM has been improved when source channel is inverted.

Version 4.05

Released Date:	16 Febuary2015
Instrument software version:	Revision 4.05
File Name:	3000XSeriesT.04.05.2015021000.ksx

New Features

This software revision includes the following new capabilities:

- CAN-FD eye testing support has been added to DSOXT3AUTO option.

- LIN Symbolic decoding support has been added to DSOXT3AUTO option.

- Control Loop measurements have been added to the DSOX3POWER option.

- Bitrate measurement has been added.

- Single shot capability has been added to the Waveform Generator.

- DSOX3POWER option now includes Class D harmonics measurements, including mA/W.

- USB frame triggers have been added – Start of Packet, End of Packet, Reset Complete, Enter Suspend, and Exit Suspend.

Enhancements

- DSOX3POWER option now supports Keysight's N7020A Power rail probe.

- N7020A Power rail probe has a number of behavior improvements; improved autoscale; added calibration detection; improved trigger level interaction; expansion is now center screen.

- DISPlay:BACKLIGHT [ON|OFF] command has been added.

Bug Fixes

- A number of missing localized help screen strings and GUI strings have been added.

- "FFT" is now a valid waveform source for a number of SCPI commands.

- Status byte behaviors are improved.

Version 4.00

Released Date:	October 2014
Instrument software version:	Revision 04.00.00000
File Name:	3000XSeriesT.04.00.2014101304.cab

Initial Release

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