

Keysight InfiniiVision HD3 Series Oscilloscopes

Version 10.31.2026040120

Release Date:	15 April 2026
Instrument software version:	Revision 10.31.2026040120
File Name:	HD3Series.10.31.2026040120.swu

Bug Fixes

Fixed :MEASure:COUNter? query issue.

Version 10.30.2026031929

Release Date:	29 March 2026
Instrument software version:	Revision 10.30.2026031929
File Name:	HD3Series.10.30.2026031929.swu

Enhancements

This software release includes the following enhancements:

- Zoom Mode – Enabled MegaZoom 5 ASIC signal-path zoom, to take full advantage of 14-bit ADC
- Added Magnify Mode to rescale displayed waveforms in a floating window
- Added Window Trigger for signals entering/exiting and in/out (time qualified) of a defined range (voltage range)
- Waveform Generator enhancements include:
 - o Increased maximum burst count to 10,000 for Square and Pulse waveforms
 - o Increased arbitrary waveform maximum HW record length to 500,000
- Added Protocol Totalizers for UART/RS232, CAN, and ARINC 429
- Segmented Memory – increased the maximum number of segments to 256,000
- Added Variable Persistence to Color Grade Waveform
- Added user-configurable default 50 Ω channel impedance
- Added DC Bias to Frequency Response Analysis
- Web Interface – added ASCII XY .csv save format
- Increased number of Favorites menu items to 12
- With Segmented Memory enabled, improved :WAVEform:DATA? response time

Bug Fixes

The software includes the following bug fixes:

- Fixed issue where connecting more than one DP001xA, DP001xA probe calibration results in a large offset
- Fixed SCPI where *ESR? query was not returning 1 when the operation was completed
- Fixed unexpected plotted waveform spikes with a clipped waveform using :WAVEform:FORMat BYTE format
- Fixed LIN protocol issue where LIN ID bytes are detected and subsequent bytes are ignored

Version 10.21.2025120419

Release Date:	15 December 2025
Instrument software version:	Revision 10.21.2025120419
File Name:	HD3Series.10.21.2025120419.swu

Enhancements

This software release includes the following enhancements:

- OS level changes to align HD3 products with future EU Cyber Resilience Act requirements
- Power Control Loop Response - added Gain and Phase Margin measurements
- SCPI changes include:
 - o Added SCPI command to turn off Math Auto Setup Only
 - o Added SCPI command to close all displayed dialog windows in the GUI
- Time base range is consistent for all bandwidth settings – 200MHz, 350MHz, 500MHz, 1GHz
- Web Interface – expanded available formats for Save Instrument Files
- Added controls to the File Explorer dialog – Select All, Create Folder, Delete Folder
- Increased external scaling to 5000:1 for analog input channels
- WaveGen changes include:
 - o Added support for arbitrary waveforms that are not uniformly sampled
 - o Increased range of available Duty Cycle options
- Added Power Demo signals to Training Signals

Bug Fixes

The software includes the following bug fixes:

- Fixed Maximum and Minimum voltage measurements to correctly measure infrequent glitches
- Fixed offset issue with the N7020A and N7024A probes
- Fixed issue with saving WaveGen Arbitrary Waveform data
- Fixed file save CSV data to USB drive issue
- Changed micro symbol from u to μ in the GUI

Version 10.20.2025101313

Release Date:	15 October 2025
Instrument software version:	Revision 10.20.2025101313
File Name:	HD3Series.10.20.2025101313.swu

New Features

This software revision includes the following new capabilities:

- Added the HD300USBA software package providing USB 2.0 and USB PD trigger, decode, and search. USB 2.0 supports low-, full-, and hi-speed signaling rates.
- Added the HD300QJTA software package providing Jitter Analysis and clock recovery.
- Added the HD300BDLB software bundle enabling all HD3 software options:
 - o *HD300EMBA, HD300AUTA, HD300AERA, HD300USBA, HD300PWRA, HD300QJTA*
- Added real-time color grading of signals, with MegaZoom 5 signal path options that allow users to easily identify the most and least frequent waveform activity. Also added software color-grading of math traces, including FFT.

Enhancements

Counter enhancements include:

- Increased the number of counters to four frequency, period, or edge event counters for analog and digital channels
- Added a fifth counter for triggers
- Increased the number of digits of resolution to 12

Added new demos:

- Color grade, I2C, RS232/UART, Setup & Hold, Edge Then Edge, USB 2.0, USB PD, MIL-STD 1553, CAN FD, SENT

Added offset to probe external scaling

Added a “Calibrated” return value for :CHANnel<n>:PROBe:STATus ? for the PS000XA and N2893A probes.

Increased SPI protocol maximum word size to 32 bits

Added I2C decode in ASCII format

Bug Fixes

Fixed incorrect LIN decode

Removed the Email dialog from email screenshot

Version 10.16.2025072437

Release Date:	8 August 2025
Instrument software version:	Revision 10.16.2025072437
File Name:	HD3Series.10.16.2025072437.swu

Bug Fixes

Fixed Waveform Generator dialog display issue.

Fixed N7020A probe voltage level issue.

Version 10.15.2025061821

Release Date:	29 June 2025
Instrument software version:	Revision 10.15.2025061821
File Name:	HD3Series.10.15.2025061821.swu

New Features

This software revision includes the following new capabilities:

- Added support for the new 350 MHz to 1 GHz optically isolated differential probes:
 - o *PS0004A, PS0006A, PS0008A*
- Added the HD300PWRA power measurements software package providing automated power supply characterization measurements.
- Added the HD300BDLA software bundle enabling all HD3 software options:
 - o *HD300EMBA, HD300AUTA, HD300AERA, HD300PWRA*

Enhancements

Updated instructions in the Update Firmware dialog found in the Help menu.

Bug Fixes

Fixed N7020A/N7024A probe calibration which requires WaveGen output.

Corrected the displayed probe bandwidth for the DP0010A probe.

Fixed the Save dialog auto increment filename issue.

Fixed Math and FFT fine scaling to be consistent at higher scales

Version 10.10.2025040924

Release Date:	15 April 2025
Instrument software version:	Revision 10.10.2025040924
File Name:	HD3Series.10.10.2025040924.swu

New Features

This software revision includes the following new capabilities:

- Added the HD300AERA aerospace and defense software package providing trigger and decode support for the MIL-STD 1553 and ARINC 429 protocols.

Enhancements

Single acquisition extends protocol decode to maximum memory depth including off-screen data.

Bug Fixes

Corrected the USB VISA address format in the I/O dialog

Fixed FRA markers and FRA table selected row to synchronize when moving markers bi-directionally.

Fixed program failure when changing trigger type during the Protocol Decode demo.

Fixed Mask Test Stop on Error issue.

Known Problems

This software revision includes the following known issues that will be resolved in an upcoming release:

- Canceling calibration does not work and can result in program failure. Power cycling during the calibration is an alternative.

Version 10.07.2025021928

Release Date:	22 February 2025
Instrument software version:	Revision 10.07.2025021928
File Name:	HD3Series.10.07.2025021928.swu

New Features

This software revision includes the following new capabilities:

- Added support for the Edge then Edge Trigger
- Lowered minimum vertical scale (volts/division) to 100uV/division
- Increased off-screen vertical plotting and triggering to +/- 4 divisions
- Added manual control of memory depth OR sample rate (previously was just AND)
- Added Marker and Zoom Math Gating
- Added Math Auto Setup
- Added Roll Mode on Math functions

Enhancements

FRA (Bode Plot) enhancements including increased sweep range with minimum 10mHz Start Frequency, marker and table improvements

Boot-time and responsiveness enhancements

Increased time span for the measurement trend math function to > 10 seconds

Allow user to modify Marker delta X and delta Y values directly

Added Math functions to the FFT dialog.

Increased number of reference waveforms to four.

Added measurement hysteresis to control minimum signal amplitude used in measurements.

Added SENT Trigger On CRC options – Fast Channel, Slow Channel, All CRC errors

Bug Fixes

Fixed incorrect Markers X-units and delta information.

Fixed missing FFT scale in Zoom time mode.

Fixed Probe Comp overshoot issue

Known Problems

This software revision includes the following known issues that will be resolved in an upcoming release:

- Canceling calibration does not work and can result in program failure. Power cycling during the calibration is an alternative.

Version 10.06.2024121126

Release Date:	15 December 2024
Instrument software version:	Revision 10.06.2024121126
File Name:	HD3Series.10.06.2024121126.swu

New Features

This software revision includes the following new capabilities:

- Added support for new 750V to 3000V high-voltage differential probes:
 - o *DP0031A, DP0032A, DP0033A*
- Added the SENT protocol in the HD300AUTA automotive analysis software package
- Added burst mode to the Waveform Generator. This allows the user to specify the number of output cycles of the selected waveform
- Added XY Mode color scheme
- Added Math Auto Setup to automatically determine waveform scale and offset
- Added Enhanced Security 30-day trial and added Enhanced Security to the HD300MSO-600 distributor demo license

Enhancements

Improved math drawing time.

Changed behavior of markers to force Y markers on when using Track Waveform mode.

Bug Fixes

Fixed issue where measurement and saved data was normalized to less than the actual 16-bits.

Improved the functionality and usability of protocols – UART, CAN, LIN, I2C, SPI

Fixed incorrect Marker delta readout when X units set to Hz

This software revision includes the following Frequency Response Analysis changes and defect fixes:

- Fixed the :FRANalysis:SWEep:POINts? query
- Modified Frequency Response dialog Sweep points label to indicate “Total # of Points”

This software revision includes the following UI changes and defect fixes:

- Moved location of Full Screen exit button to the upper left corner of display
- Fixed the display of Counter results that were too wide in List mode in the Results area

This software revision includes the following FFT changes and defect fixes:

- Fixed FFT Auto Setup executing at unexpected times
- Fixed FFT Manual Marker to update correctly on scale change

Known Problems

This software revision includes the following known issues that will be resolved in an upcoming release:

- Canceling calibration does not work and can result in program failure. Power cycling during the calibration is an alternative.
- SENT Trigger On CRC options not supported – Fast Channel, Slow Channel, All CRC errors.

Version 10.05.2024100325

Release Date:	15 October 2024
Instrument software version:	Revision 10.05.2024100325
File Name:	HD3Series.10.05.2024100325.swu

New Features

This software revision includes the following new capabilities:

- Added horizontal time modes: XY mode and Roll mode. By default, Normal mode is enabled.
- Added support for Keysight PathWave 89600 VSA 2025 (Vector Signal Analysis)
- Added bandwidth limiting by channel

Bug Fixes

Fixed a waveform freeze issue.

Fixed Mask Test issue where Stop on Error failed to display waveform.

This software revision includes the following FRA (Frequency Response Analysis) bug fixes:

- Improved FRA execution time.
- Combined Channels 1 & 2 into a single waveform grid.
- Fixed FRA results display label issue
- Fixed program failure when changing the FRA waveform configuration settings after FRA has completed.
- Fixed issue was the OPC bit was not set in the *ESR? Register after FRA has completed.

This software revision includes the following Protocol Decode bug fixes:

- Fixed program failure after modifying trigger settings for the CAN Symbolic Demo. Changing Trigger On setting to “Message and Signal” and Signal to “Speed” does not result in a program failure.
- Fixed protocol search and navigate issue where the selected event unexpectedly changes.
- Fixed issue where the last packet decode is not displayed in the Protocol Listing table
- Fixed issue where partial I2C segment is drawn in the incorrect location on the screen.
- Fixed LIN decode logic to decode Start symbol.

This software revision includes the following SCPI bug fixes:

- Fixed program failure using the SCPI query :MEASure:TEDGe.
- Fixed program failure using :MARKer Position and XDELta queries.
- Fixed issue where the SCPI query :ACQuire:POINts did not return the correct number of points acquired.
- Fixed issue where the SCPI query :WAVEform:POINts did not return the correct number of points to be transferred.
- Fixed issue where :WAVEform:DATA? returned incorrect data when enabling :WAVEform:SEGMENTed:ALL.

This software revision includes the following Trigger bug fixes:

- Fixed issue where trigger failed for some Setup and Hold configuration settings.
- Fixed auto trigger to trigger on < 1Hz slow signals.
- Fixed multiple zones issue with zone trigger. The system falsely triggered on a zone after another zone has been removed.

Known Problems

This software revision includes the following known problem:

- Canceling calibration does not work and can result in program failure. Power cycling during the calibration is an alternative.
- AWG Sine Cardinal and Exponential Rise/Fall waveforms incorrect at some frequencies

Version 10.01.2024082937

Release Date:	15 September 2024
Instrument software version:	Revision 10.01.2024082937
File Name:	HD3Series.10.01.2024082937.swu

New Features

This software revision includes the following new capabilities:

- Added support to disable/enable trigger hysteresis. By default, trigger hysteresis is enabled.

Bug Fixes

This software revision includes the following Trigger bug fixes:

- Fixed Runt trigger not working correctly with slope and qualifier settings.
- Fixed Pulse Width trigger duration not working correctly
- Fixed Setup and Hold trigger issue when changing source in auto mode.
- Fixed adjusting trigger holdoff changes trigger level.

This software revision includes the following Counters bug fixes:

- Fixed program failure resulting from adjusting the trigger level or channel scale/offset with Counter enabled.
- Fixed Counter thresholds not working as expected.

This software revision includes the following Protocol Decode bug fixes:

- Fixed program failure resulting from horizontal scale/delay adjustments when the Protocol Listing is enabled.
- Fixed issue where I2C trigger on EEPROM Data Read did not work.
- Fixed LIN symbolic trigger not working.
- Fixed I2C decode issue when switching SCL and SDA.
- Fixed program failure during UART serial search.
- Fixed protocol decode interoperability with segmented mode.

This software revision includes the following AWG bug fixes:

- Fixed AWG import Arbitrary waveform from file doesn't work as expected.
- Fixed AWG issue was changing frequency creates unexpected positive/negative glitches.
- Fixed issue changing AWG arbitrary frequency with knob causes invalid waveform
- Fixed CAN symbolic name display issue.

Known Problems

This software revision includes the following known problem:

- Waveform freeze issue – updates to the waveform area are locked. Other functions of the oscilloscope are still functional. The user can select Reset Display from the Services/Diagnostics dialog box.
- Canceling calibration does not work and can result in program failure. Power cycling during the calibration is an alternative.
- AWG Sine Cardinal and Exponential Rise/Fall waveforms incorrect at some frequencies

Version 10.00.2024080218

Released Date:	4 September 2024
Instrument software version:	Revision 10.00.2024080218
File Name:	HD3Series.10.00.2024080218.swu

Initial Release

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