

## Release Notes

# Keysight CX3300 Series Device Current Waveform Analyzer Firmware

Version 3.0.1940.19830

Released Date:	16 October, 2019
File Name:	Keysight.Cx3300.Setup_3.0.1940.19830.exe

### New Features

- Supported the data logger mode for up to 100 hours long measurement at maximum 10 MSa/s high sampling rate using a storage device.
- Supported the Waveform Analytics, the Waveform Playback, and the Waveform Trend Analyzer for quick analysis for huge data captured with the data logger mode.
- Supported CX3300APPC Current Waveform Analytics Software which provides the CX3300A's powerful analysis capabilities offline. Visit <http://www.keysight.com/find/CX3300APPC> for details.

### Enhancements

- Supported the new option to combine both channels for CX1102A Dual Channel Current Sensor. (#472037)
- Increased the maximum number of profile line from 101 to 10,000, and the maximum number of data points from 10 Mpts to 20 Mpts on the Power and Current Profiler. (#567104)

### Bug Fixes

- Fixed: The firmware occasionally hangs up. (#556674)

## Version 2.0.1842.10351

Released Date:	19 November. 2018
File Name:	Keysight.Cx3300.Setup_ 2.0.1842.10351.exe

### Bug Fixes

- Fixed: CX3322A serial number MY56160142 and below, and CX3324A serial number MY56160267 and below may fail User Calibration. (#548728)

## Version 2.0.1812.19419

Released Date:	3 April. 2018
File Name:	Keysight.Cx3300.Setup_ 2.0.1812.19419.exe

### New Features

- Supported the CX1104A Current Sensor, Selectable Resistive Sensor Head. (#498828)
- Supported the CX1105A Differential Sensor, Single Channel. (#498836)
- Supported the Menu Bar for easy access to each dialog box. Refer to the Quick Operation Guide > “How to display the menu bar” for details of settings. (#495908)
- Supported the Auto Save for automatically saving the data of the waveforms acquired under the specified trigger condition other than Auto. Refer to the Quick Operation Guide > “How to save rarely occurring waveforms automatically” for details of settings. (#464671)
- Supported the XY Analysis to display the relationship between two waveforms. Refer to the Quick Operation Guide > “How to apply the XY analysis for details of settings” for details of settings. (#506213)
- Supported the Area (+width), Area (-width) and Area (Period) markers for automatically tracking a +width, -width or period of a waveform and measuring the integration value of the waveform in the area specified by the Area marker. Refer to the Quick Operation Guide > “How to analyze the waveform in the specified area with an Area marker” for details of settings. (#502290)
- Supported the Secondary X Axis and Secondary Y Axis to display the scales of two waveforms on the same graph. Refer to the Quick Operation Guide > “How to display the secondary Y axis” for details of settings. (#506601)
- Supported the User Delay to move waveforms on the graph in the horizontal direction without moving the Timebase Reference. (#506599)

- Supported the Low Frequency Noise Suppression Mode to improve the noise floor significantly in the frequency band from DC to 10 kHz. (#507369)
- Supported the Windows 10. Note that the Tablet mode is not supported. (#544375)

## Enhancements

- Improved to restore the last session on startup. (#494359)
- Improved to restore the last session after performing the User Calibration. (#526975)
- Improved to show the measurement summary such as Area, Average, Max, Min, P-P, RMS on the Area data view as same as Keysight 14585A Control and Analysis Software for Advanced Power Supplies. (#495459)
- Supported the waveform tracking mode for a Cross hair marker to read the value of the specified point on the waveform. Refer to the Quick Operation Guide > “How to place pointers on waveforms” for details of settings. (#521380)
- Improved to change the scale and the offset by the knobs for the active Zoom view. (#525448)
- Improved to close a dialog box by the Escape key. (#528275)
- Improved to apply a Measurement by double-clicking an icon on the Measurement tool palette. (#495462)
- Added the Waveform Memories icons on the Display tool palette for easy access to Waveform Memory. (#495489)
- Added the Acquisition Count for Single field on the Setting dialog box (Setting > Acquisition) to enable specifying the number of acquisitions for a single measurement regardless of the Averaging setting. (#521518)
- Removed the limitation of 1 MHz cut-off frequency for the Filter function. (#523828)
- Improved to notice the user when the sampling rate or the measurement range is automatically changed by the firmware. (#496140)
- Improved to show what determines the effective bandwidth on Setting > Channels. (#496155)
- Added the Preview on the Load dialog box. (#495669)
- Improved to save the screen capture of the Power and Current Profiler. (#506365)
- Added the option to set the background theme Dark or Light for the Power and Current Profiler. (#471533)

- Added the SCPI commands to save the screen capture into the solid-state drive on the CX3300. (#522712)
- Added the SCPI commands to switch the Automatic settings for the Sampling Rate, the Memory Depth, the Sin(x)/x Interpolation and the Current or Voltage Range. (#521680)
- Added the option to set the Low Pass Filter OFF (maximum bandwidth: 500 kHz) or ON (limited to 25 kHz, effective for reducing noise floor) for the CX1101A Current Sensor, Single Channel of the version 2.0 or later. For the CX1101A of the revision 1.0, upgrade is required to enable this function at a Keysight Technologies service center. The service will be ready by the end of 2018. Contact your local Keysight office for more information. (#507359)

## Bug Fixes

- Fixed: The math functions calculated by two sources may not be displayed correctly. (#539495)
- Fixed: The values of Latest, Mean, Min, Range and Std Dev. are not correct on the Amplitude data view. (#540577)
- Fixed: The time data cannot be saved correctly in the HDF5 format. (#531605)

## Version 1.3.1730.17791

Released Date:	3 August. 2017
File Name:	Keysight.Cx3300.Setup_ 1.3.1730.17791.exe

## New Features

- Supported the Null function to minimize the offset current or voltage. (#486549)
- Supported the profile line saving and loading on the Automatic Power and Current Profiler. (#487274)
- Added the Sampling Rate setup field on the Timebase mini dialog box which is opened by clicking the horizontal summary on the summary bar. (#496139)
- Added the function to specify the origin of the vertical/horizontal scale. (#464853)
- Added the function to change the unit of electric charge, electric energy and slew rate on the Area view and the Measurement view. (#486055)
- Added the operation guide and the measurement demo which can be opened by using the Help icon on the side bar. (#507625)

## Enhancements

- Improved the performance of measurement function for a large amount of data. (#484502)
- Improved the vertical knob operation to support the math function and waveform memory. (#485206)
- Removed the 1 Mpts memory depth limitation when the Automatic mode. (#494410)

## Bug Fixes

- Fixed: Known Issue of 1.2.1641.10427: A-B marker may not work correctly by applying the marker when the acquisition is stopped. (#489721)
- Fixed: CX3300A cannot be controlled over USB though NI MAX. (#493669)
- Fixed: Pulse width trigger may not work correctly when the Invert Polarity is ON. (#504569)

## Version 1.2.1641.10427

Released Date:	11 Oct. 2016
File Name:	Keysight.Cx3300.Setup_1.2.1641.10427.exe

## New Features

- Supported Invert Colors option for saving Screen Capture (#471403)
- Added the measurement range setup field on the channel setup mini dialog box which is opened by clicking the channel summary on the summary bar (#464676)
- Added the right-click menu to edit or delete the selected marker or annotation. (#471529)

## Enhancements

- Improved the usability to select area of "Anywhere" zoom. (#471531)
- Improved the usability to keep the scale when changing the sampling rate or the measurement range. (#471369, 464672)
- Improved the waveform loading from a Composite File. (#477978)

## Bug Fixes

- Fixed: Known Issue of 1.1.1631.12302: Sorting of the table of Automatic Power and Current Profiler may not work correctly (#481519, #481689)
- Fixed: Must report the incorrect single channel connection of the CX1102A. Both primary and secondary channels must be connected. (#484091)

## Known Issues

- A-B marker may not work correctly by applying the marker when the acquisition is stopped (#489721)

## Version 1.1.1631.12302

Released Date:	8 Aug. 2016
File Name:	Keysight.Cx3300.Setup_1.1.1631.12302.exe

## New Features

- Support XY zoom when selecting a corner of “Anywhere” zoom. (#471530)

## Enhancements

- Improved the performance of displaying a large amount of data. (#459357, #471363)

## Bug Fixes

- Fixed: Known Issue of 1.0.1621.18649: Automatic Power and Current Profiler may not work correctly for a waveform measured with a CX1102A. (#478092)
- Fixed: Known Issue of 1.0.1621.18649: The waveform on CX3300 is not displayed occasionally when changing the display mode using an external display. (#469790)
- Fixed: Known Issue of 1.0.1621.18649: After forcing quit the CX3300 firmware for any reasons, power-cycle the CX3300. (#471540)
- Fixed: User calibration doesn't work correctly for two CX1102A configuration (#482475)
- Fixed: Automatic Power and Current Profiler occasionally hangs up by file saving (#481068, #481072)

- Fixed: The bandwidth display on the summary bar is not correct for some ranges of CX1102A and CX1103A (#482707)

## Known Issues

- Sorting of the table of Automatic Power and Current Profiler may not work correctly (#481519, #481689)

## Version 1.0.1621.18649

Released Date:	15 June 2016
File Name:	Keysight.Cx3300.Setup_1.0.1621.18649.exe

## Initial Release

## Known Issues

- Automatic Power and Current Profiler may not work correctly for a waveform measured with a CX1102A. (#478092)
- The file operation such as loading, saving or recording occasionally stops if you attach or detach a current sensor during the file operation. (#471347)
- The waveform on CX3300 is not displayed occasionally when changing the display mode using an external display. (#469790)
- After forcing quit the CX3300 firmware for any reasons, power-cycle the CX3300. (#471540)