

## Release Notes

# Keysight M960xA PXIe Precision Source/Measure Unit Software

Version 4.2.2243.0

Released Date:	25 Mar. 2022
File Name:	M960xSetup-4.2.2243.0.exe

### Note

- The firmware update is required after the installation of the M960x PXIe Precision Source/Measure Unit Instrument Drivers by following the installation instruction available in the same download page.

### New Features

- Supported options for Initialize function to restore parameters and retain the output state. (#217)
- Supported infinite transient trigger count. (#304)
- Supported output resistance. (#1670)
- Supported dummy data generation for sweep measurement in simulation mode. (#289)

### Bug Fixes

- Fixed: Unexpected parameter error may occur when initiating trigger system after using GroupSync function. (#443)
- Fixed: "MEAS?" hangs when the SMU is in an emergency shutdown status. (#1165)
- Fixed: SFP may hang during power-on self-test. (#1660)
- Fixed: If the list sweep length exceeds 100 points, "Data out of range" error occurs. (#1663)
- Fixed: SFP terminates abnormally if an emergency shutdown error occurs during the power-on self-test of the M9614/15A. (#1669)

## Version 4.1.2067.0

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Released Date:	23 Oct. 2021
File Name:	M960xSetup-4.1.2067.0.zip

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### Note

- The firmware update is required after the installation of the M960x PXIe Precision Source/Measure Unit Instrument Drivers by following the installation instruction available in the same download page.

### New Features

- Supported commands to query the firmware revision number of a module. (#1492)

### Enhancements

- Improved the performance of spot measurements. (#1235)

### Bug Fixes

- Fixed: “:FETCh:SCALAr?” may not return the last data of a sweep measurement. (#1638)
- Fixed: “:SYSTem:VERSion?” may not return the correct version. (#1639)
- Fixed: Device Clear may not be able to abort the operation. (#1650, 1655)
- Fixed: viClear( ) causes an application crash on VXI-11. (#1652)
- Fixed: Spikes which occurs when range changing between 100 mA range to 100  $\mu$ A range in M9601A. (#1507)

## Version 4.0.1986.0

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Released Date:	23 Aug. 2021
File Name:	M960xSetup-4.0.1986.0.zip

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### Note

- The firmware update is required after the installation of the M960x PXIe Precision Source/Measure Unit Instrument Drivers by following the installation instruction available in the same download page.

## New Features

- Supported SCPI server

## Enhancements

- Improved the performance of the trigger. (#1440)

## Bug Fixes

- Fixed: Spikes which occurs when range changing between 10  $\mu$ A range to 100  $\mu$ A range in M9601A. (#1507)

## Version 3.5.1755.0

Released Date:	16 Apr. 2021
File Name:	M960xSetup-3.5.1755.0.zip

## Note

- The firmware update is required after the installation of the M960x PXIe Precision Source/Measure Unit Instrument Drivers by following the installation instruction available in the same download page.

## New Features

- Supported PX0107A Low noise filter adapter for M9614A and M9615A PXIe 5-Channel Precision Source/Measure Units, which enables you to evaluate noise sensitive devices and circuits such as quantum computing and many types of analog and RF ICs.
- Supported Laser Diode Mode for M9602A and M9603A PXIe Precision Source/Measure Units, which is effective in applying pulse currents with fast rise time and measuring devices such as a laser diode or VCSEL.

## Enhancements

- Enlarged the voltage range to 17 V for 5 A pulsed range of M9602A and M9603A PXIe Precision Source/Measure Units.
- Supported Trigger I/O configuration dialog on SFP.

## Bug Fixes

- Fixed: SFP may not connect more than 20 modules. (#1301)

## Version 3.0.1661.0

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Released Date:	04 Feb. 2021
File Name:	M960xSetup-3.0.1661.0.zip

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## Note

- The firmware update is required after the installation of the M960x PXIe Precision Source/Measure Unit Instrument Drivers by following the installation instruction available in the same download page.

## Bug Fixes

- Fixed: The Model option doesn't work on simulation mode. (#1159)
- Fixed: Unexpected current range is selected for pulsed current list sweep on M9602A/03A. (#1160)
- Fixed: The software may hang-up by an emergency event. (#1173, 1179)
- Fixed: The status may not be set correctly when using seamless current measurement ranging on M9614/15A. (#1190, 1241)

## Version 3.0.1510.0

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Released Date:	30 Oct. 2020
File Name:	M960xSetup-3.0.1510.0.zip

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## Note

- The firmware update is required after the installation of the M960x PXIe Precision Source/Measure Unit Instrument Drivers by following the installation instruction available in the same download page.

## New Features

- Supported M9602A and M9603A PXIe Precision Source/Measure Units.

## Bug Fixes

- Fixed: The M9601A may fail at power-on self-test. (#334)
- Fixed: The M9601A is reset by interlock failure error. (#869)
- Fixed: An unexpected error occurs when the seamless current ranging turns on. (#915)
- Fixed: Inappropriate characters are output to csv when the measurement results are infinity on SFP. (#1010)
- Fixed: The software may hang-up by an emergency event. (#1061)
- Fixed: The M9601/14/15A may hang-up at power-on self-test. (#1092)

## Version 2.0.1263.0

Released Date:	14 Aug. 2020
File Name:	M960xSetup-2.0.1263.0.zip

## New Features

- Supported M9614A and M9615A PXIe 5-Channel Precision Source/Measure Units.

## Enhancements

- Supported Save/Load Settings on SFP. (#160)

## Bug Fixes

- Fixed: The value may not be set or returned correctly on IVI-C driver. (#595, #716, #734)
- Fixed: The aperture time may be slightly shorter than the specified value. (#643, #646)
- Fixed: The source value returned by KtM960x\_MeasurementFetchArrayData may not be correct. (#729, #743)
- Fixed: The voltage output may not be correct for list sweep with digitizer mode. (#748)
- Fixed: The program may hang up when an interlock failure occurs. (#862, 880)
- Fixed: The interlock value may not be set for multiple modules. (#900)

## Version 1.0.31.0

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Released Date:	13 March. 2020
File Name:	M960xSetup-1.0.31.0.zip

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### Bug Fixes

- Fixed: The wait time after changing voltage/current may not be correct. (#410, #411, #468)
- Fixed: The voltage output may not be correct when continuous trigger output is enabled. (#463, #464)
- Fixed: The session may not be opened for large number of modules. (#472, #480)
- Fixed: The unexpected error may occur when controlling modules in multiple chassis. (#450, #477)
- Fixed: The unexpected interlock error may occur. (#492, #493, #494)
- Fixed: The trigger may not be aborted. (#386, #414)
- Fixed: The invalid commands may be logged on Monitor Driver Calls on Soft Front Panel. (#534)
- Fixed: Operation mode may not be set correctly. (#547)

## Version 1.0.9.0

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Released Date:	30 November. 2019
File Name:	M960xSetup-1.0.9.0.zip

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### Initial Release

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