Keysight M8194A Arbitrary Waveform Generator

KEYSIGHT
TECHNOLOGIES

Version 2.0.44.0 Information

Released Date:	23 March 2023
Operating System:	• Windows 10 (32 bit or 64 bit) • Windows 8.1 (32 bit or 64 bit) • Windows 8 (32 bit or 64 bit) • Windows 7 (32 bit or 64 bit)
Hardware Revision:	1.0
File Names:	• M8194_Setup.exe

New Functionality

Defect Fixes

- Internal defects fixed

Known Issues

Skew stability

Changing the sample rate or power cycling the instrument can occasionally lead to a change in skew between channels. Even though the probability is very low, we recommend to perform an in-system calibration after every change of sample rate or power cycle.
The skew between channels never changes due to a new waveform download or run/stop command.

Keysight IO Libraries Suite

Starting with version 2021, .NET Framework 3.5/2.0 is not automatically installed anymore. It is, however, required for some VISA.NET drivers and for 32-bit VISA applications to work.
For details refer to https://www.keysight.com/find/iosuite.
Should Keysight IO Libraries Suite be installed on a system without .NET Framework 3.5/2.0 and you encounter problems caused by this, the following steps are recommended:
- Open Control Panel, "Programs and Features", then uninstall
  o Keysight IO Libraries Suite
  o IVI Shared Components
  o IVI.NET Shared Components
  o VISA Shared Components
  o VISA.NET Shared Components
  o Keysight M8194
- Still in "Program and Features", select "Turn Windows features on or off", check ".NET Framework 3.5 (includes .NET 2.0 and 3.0)", and click [OK]
- Install Keysight IO Libraries Suite
- Install Keysight M8194

Version 2.0.40.0 Information

Released Date:	24 January 2023
Operating System:	- Windows 10 (32 bit or 64 bit) - Windows 8.1 (32 bit or 64 bit) - Windows 8 (32 bit or 64 bit) - Windows 7 (32 bit or 64 bit)
Hardware Revision:	1.0
File Names:	M8194_Setup.exe

New Functionality

Defect Fixes

- Marker import failure when importing file from GUI
- Slightly different results between file-import via SCPI or GUI

Known Issues

- **Skew stability**
  Changing the sample rate or power cycling the instrument can occasionally lead to a change in skew between channels. Even though the probability is very low, we recommend to perform an in-system calibration after every change of sample rate or power cycle.
  The skew between channels never changes due to a new waveform download or run/stop command.

Version 2.0.31.0 Information

Released Date:	06 November 2019
Operating System:	- Windows 10 (32 bit or 64 bit) - Windows 8.1 (32 bit or 64 bit) - Windows 8 (32 bit or 64 bit) - Windows 7 (32 bit or 64 bit)
Hardware Revision:	1.0
File Names:	M8194_Setup.exe

New Functionality

Defect Fixes

- LTC2977 unlock failed
- I2C No ack received

Known Issues

- **Skew stability**
  Changing the sample rate or power cycling the instrument can occasionally lead to a change in skew between channels. Even though the probability is very low, we recommend to perform an in-system calibration after every change of sample rate or power cycle.
  The skew between channels never changes due to a new waveform download or run/stop command.

Version 2.0.27.0 Information

Released Date:	25 October 2019
Operating System:	- Windows 10 (32 bit or 64 bit) - Windows 8.1 (32 bit or 64 bit) - Windows 8 (32 bit or 64 bit) - Windows 7 (32 bit or 64 bit)
Hardware Revision:	1.0
File Names:	M8194_Setup.exe

New Functionality

- Multi-Module synchronization functionality added
- New reference clock functionality added

Bug Fixes

- Fix: Intermittent boot problems
- Fix: Wrong slot numbers over PCIe connection reported
- Fix: Window flickering during application startup

Known Issues

- **Skew stability**
  Changing the sample rate or power cycling the instrument can occasionally lead to a change

in skew between channels. Even though the probability is very low, we recommend to perform an in-system calibration after every change of sample rate or power cycle.
The skew between channels never changes due to a new waveform download or run/stop command.

Version 1.2.11.0 Information

Released Date:	30 April 2019
Operating System:	• Windows 10 (32 bit or 64 bit)
	• Windows 8.1 (32 bit or 64 bit)
	• Windows 8 (32 bit or 64 bit)
	• Windows 7 (32 bit or 64 bit)
Hardware Revision:	1.0
File Names:	• M8194_Setup.exe

Bug Fixes

- Stability improvements

Known Issues

- **Skew stability**
  Changing the sample rate or power cycling the instrument can occasionally lead to a change in skew between channels. Even though the probability is very low, we recommend to perform an in-system calibration after every change of sample rate or power cycle.
  The skew between channels never changes due to a new waveform download or run/stop command.

Version 1.2.5.0 Information

Released Date:	11 March 2019
Operating System:	• Windows 10 (32 bit or 64 bit)
	• Windows 8.1 (32 bit or 64 bit)
	• Windows 8 (32 bit or 64 bit)
	• Windows 7 (32 bit or 64 bit)
Hardware Revision:	1.0
File Names:	• M8194_Setup.exe

New Functionality

- Asynchronous SCPI command added to start waveform generation: "INITiate:ASYNc"

Bug Fixes

- Improved skew stability. Probability for skew variation strongly reduced.
- Maximum bitrate on serial data panel increased to 120 Gbaud

Known Issues

- **Skew stability**
  Changing the sample rate or power cycling the instrument can occasionally lead to a change in skew between channels. Even though the probability is very low, we recommend to perform an in-system calibration after every change of sample rate or power cycle.
  The skew between channels never changes due to a new waveform download or run/stop command.

Version 1.0.10.0 Information

Released Date:	25 October 2018
Operating System:	• Windows 10 (32 bit or 64 bit) • Windows 8.1 (32 bit or 64 bit) • Windows 8 (32 bit or 64 bit) • Windows 7 (32 bit or 64 bit)
Hardware Revision:	1.0
File Names:	• M8194_Setup.exe

Initial Release

Known Issues

- **Skew stability**
  Changing the sample rate or power cycling the instrument can occasionally lead to a change in skew between channels. Even though the probability is very low, we recommend to perform an in-system calibration after every change of sample rate or power cycle.
  The skew between channels never changes due to a new waveform download or run/stop command.

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