

Keithley Instruments
 28775 Aurora Road
 Cleveland, Ohio 44139
 1-800-833-9200
tek.com/keithley

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NEW AND IMPROVED

KickStart now supports the control of all Tektronix AFG31000 Series Arbitrary Function Generators through the AFG app.

- Using the AFG app, you have complete control of all the basic mode settings, including source function settings, run modes, output settings, and interchannel settings
- Ability to control both channels of a multi-channel AFG independently
- Access to a variety of standard waveforms including sine, square, pulse, noise, arbitrary, exponential rise, and many more
- Multiple run modes, including continuous, modulation, sweep, and burst modes
- Ability to capture, save, and export AFG app settings
- Ability to send a `.t.fwx` file saved on your PC to the edit memory of the AFG to create arbitrary waveforms
- Ability to select a file that is stored in the internal memory, predefined memory, or from a USB drive connected to the AFG to create arbitrary waveforms
- Responsive interface to change settings in real time
- Easy-to-use app with settings on one page to reduce errors

KICKSTART SOFTWARE

IMPROVEMENTS

Issue number:	KS-5409
Description:	Added the ability to control the export of statistics in all KickStart apps using the Export Data window. Select the Export button on the app toolbar to use this feature.
Issue number:	KS-5048
Description:	All KickStart apps now automatically export data and test configuration data for every test. To change this setting, select the export button on the app toolbar.



USAGE NOTES

Issue number:	KS-4891
Description:	Instruments that are powered off and connected to a serial adapter may show up in the instruments list. However, they cannot be used until powered on.

AFG APP

USAGE NOTES

Issue number:	KS-5682
Description:	Preview waveforms in the AFG app are an approximation and the AFG app does not support previews for custom waveforms.

DATA LOGGER APP

FIXED ISSUES

Issue number:	KS-5269
Description:	When measuring DC Voltage using the Data Logger app with the 3706 instruments, the measure range table incorrectly included the 1000 V range. This issue has been resolved.

DMM APP

IMPROVEMENTS

Issue number:	KS-5523, KS-5544
Description:	The DMM app now supports control of the line-sync setting for all DMM models and functions that support it.

HIGH RESISTIVITY APP

FIXED ISSUES

Issue number:	KS-5678
Description:	Data export failed during the export of test configuration when a fixed current range was selected. This issue has been resolved.

I-V CHARACTERIZER APP

IMPROVEMENTS

Issue number:	KS-5243
Description:	The IV Characterizer app now allows a zero source to measure delay with all 2600/2600A models.

FIXED ISSUES

Issue number:	KS-5670
Description:	When using the I-V Characterizer app with a 2657A SMU in dc mode measuring current with high resistive loads, the instrument returned overflow readings. This issue has been resolved.
Issue number:	KS-5669
Description:	When using the I-V Characterizer app with a 2657A SMU in dc mode, the time stamps of the readings collected were not accurate and did not match the NPLC setting. This issue has been resolved.
Issue number:	KS-5637
Description:	When using a 2461 SMU with the I-V Characterizer app in Pulse mode, with all the measure functions turned off, the app crashes when run is selected. This issue has been resolved.
Issue number:	KS-5257
Description:	When running long term tests using the 26xx models with the I-V characterizer app the reading time stamps were reset to zero after collecting certain amount of data. This issue has been resolved.

USAGE NOTES

Issue number:	KS-4679
Description:	All instruments in a TSP-Link network must be powered on for the entire network to function correctly.

I-V TRACER APP

FIXED ISSUES

Issue number:	KS-5248
Description:	During a Windows® upgrade, it is possible that security files for KickStart software are inadvertently removed, which causes the trial license to indicate zero days remain for the trial. This also affected the I-V tracer app license. This issue has been resolved.

PULSING FOR INSTRUMENTS**Issue number:** KS-4240**Description:** The following table indicates the bias level and limit values allowed in KickStart during pulsing for each instrument series:

Series 260x				
Region	Source voltage	Max current limit	KickStart max bias level	KickStart max bias limit
1	40 V	1 A	40 V	1 A
1	6 V	3 A	40 V*	1 A
2	40 V	1.5 A	40 V	1 A
3	35 V	5 A	40 V	1 A
4	20 V	10 A	40 V	1 A
5	6 V	5 A	Not supported	Not supported
Region	Source current	Max voltage limit	KickStart max bias level	KickStart max bias limit
1	1 A	40 V	3 A*	6 V
1	3 A	6 V	3 A	6 V
2	1.5 A	40 V	3 A	6 V
3	5 A	35 V	3 A	6 V
4	10 A	20 V	3 A	6 V
5	5 A	6 V	Not supported	Not supported
Series 261x/263x				
Region	Source current	Max voltage limit	KickStart max bias level	KickStart max bias limit
1	100 mA	200 V	1 A*	20 V
1	1.5 A	20 V	1 A	20 V
2	1 A	180 V	1 A	20 V
3**	1 A	200 V	1 A	20 V
4	10 A	5 V	1 A	20 V
Region	Source voltage	Max current limit	KickStart max bias level	KickStart max bias limit
1	200 V	100 mA	200 V	100 mA
1	20 V	1.5 A	200 V*	100 mA
2	180 V	1 A	200 V	100 mA
3	200 V	1 A	200 V	100 mA
4	5 V	10 A	200 V*	100 mA

*In some cases, KickStart will allow higher bias levels that are not supported by the instrument.

**KickStart allows 1 A @ 200 V pulsing that may yield unexpected pulse characteristics; this will be corrected in a future release.

GENERAL INFORMATION

SUPPORTED MODELS

This software is intended for use with the following Keithley Instruments and Tektronix product models using USB, LAN (ethernet), or GPIB interfaces. The use of RS-232 (serial) is not supported. You can find the supported operating systems here: [Supported operating systems](#).

Product category

AFG

31021	31022	31051	31052	31101	31102
31151	31152	31251	31252		

DAQ

2700	2701	2750	3706A	3706A-NFP	DAQ6510*
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*Includes DAQ6510-US

SWITCH CARD

2000-SCAN	2001-TCSCAN	3720	3721	3722	3723
3724	7700	7701	7702	7703	7706
7707	7708	7710			

DMM

2000	2010	2100	2110	DMM6500*	DMM7510*
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*Includes DMM6500-US, DMM-7510-US, DMM-7510-NFP, DMM7510-NFP-US, DMM7510-RACK, DMM7510-RACK-US, DMM7510-NFP-RACK, DMM7510-RACK-US

SMU

2400	2400-C	2401	2410	2410-C	2420
2420-C	2425	2425-C	2430	2430-C	2440
2440-C	2450	2460	2461	2470	2601A
2601B	2602A	2602B	2604B	2606B	2611A
2611B	2612A	2612B	2614B	2634B	2635B
2636A	2636B	2651A	2657A	2601B-PULSE	

SENSITIVE

6430	6485	6487	6514	6517A	6517B
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POWER SUPPLY

222x	223x	2280S-32-6	2280S-60-3	2281S-20-6	2200-20-5
2200-30-5	2200-32-3	2200-72-1	2200-60-2	2260B-30-36	2260B-80-13
2260B-250-4	2260B-800-1	2260B-30-72	2260B-80-27	2260B-30-108	2260B-250-9
2260B-800-2	2260B-250-13	2260B-800-4	2231A-30-3	2306-LAN	

OSCILLOSCOPE

DPO3012	DPO3014	DPO3032	DPO3034	DPO3052	DPO3054
DPO4014B	DPO4032	DPO4034	DPO4034B	DPO4054	DPO4054B
DPO4102B	DPO4102B-L	DPO4104	DPO4104B	DPO4104B-L	MDO3012
MDO3014	MDO3022	MDO3024	MDO3032	MDO3034	MDO3052
MDO3054	MDO3102	MDO3104	MDO32	MDO34	MDO4014-3
MDO4014B-3	MDO4024C	MDO4034-3	MDO4034B-3	MDO4034C	MDO4054-3
MDO4054-6	MDO4054B-3	MDO4054B-6	MDO4054C	MDO4104-3	MDO4104-6
MDO4104B-3	MDO4104B-6	MDO4104C	MSO3012	MSO3014	MSO3032
MSO3034	MSO3052	MSO3054	MSO4012B	MSO4012B-L	MSO4032
MSO4034	MSO4034B	MSO4054	MSO4054B	MSO4104	MSO4104B
MSO4012B-L	TBS1000C	TBS1022	TBS1032B	TBS1032B-EDU	TBS1042
TBS1052B	TBS1052B-EDU	TBS1052C	TBS1062	TBS1064	TBS1072B
TBS1072B-EDU	TBS1072C	TBS1102	TBS1102C	TBS1104	TBS1152
TBS1152B	TBS1154	TBS1202B	TBS1202C	TBS2072B	TBS2074B
TBS2102B	TBS2104B	TBS2202B	TBS2204B	TBS1202B-EDU	TBS2000B
TBS2072	TBS2074	TBS2102	TBS2104	TBS2202	TBS2204
TDS210	TDS220	TDS224	TDS1001	TDS1001B	TDS1001C-SC
TDS1002	TDS1002B	TDS1002C-SC	TDS1012	TDS1012B	TDS1012C-SC
TDS2001C	TDS2002	TDS2002B	TDS2002C	TDS2004	TDS2004B
TDS2004C	TDS2012	TDS2012B	TDS2012C	TDS2014	TDS2014B
TDS2014C	TDS2022	TDS2022B	TDS2022C	TDS2024	TDS2024B
TDS2024C					

SUPPORTED OPERATING SYSTEMS

KickStart is supported on the following operating systems:

Windows® 11 and Windows® 10, 64-bit; KickStart version 2.0.0 and newer

Windows® 7 and Windows® 8; however, KickStart is no longer evaluated or updated to support these obsolete operating systems

SUPPORTED COMMUNICATION INTERFACES

USB

LAN

GPIB

MINIMUM PC REQUIREMENTS

Processor: Dual-core processor @ 2 GHz or better

NTFS file system

RAM: 8 GB

Display resolution: Minimum 1920 × 1080 recommended

Disk drive space required: 8 GB of free space

RECOMMENDED PC REQUIREMENTS

Processor: 4-core processor @ 2 GHz or better

NTFS file system

RAM: 16GB or more

Display resolution: Minimum 1920 × 1080 recommended

Disk drive space recommended: 100 GB or more free space for data storage

SOFTWARE PREREQUISITES

NI VISA™ 17.5 Runtime Engine or later (installation package included in KickStart installer)

Microsoft® Visual Studio® C++ 2013 x64 Redistributable Package

Microsoft® Visual Studio® C++ 2017 x64 Redistributable Package

.NET Framework 4.7.

NOTE

When installing KickStart without an internet connection, make sure that the last three software prerequisites are installed on your computer before installing. The NI VISA 17.5 Runtime Engine is packaged with the KickStart installer.

INSTALLATION INSTRUCTIONS

To install KickStart software:

1. Download the KickStart 2.8.0 installer from tek.com/keithley-kickstart.
2. Unzip the file and run `KickStartSetup.exe`.
3. Follow the installation instructions and accept all default settings.

The required files are installed in the following default location: `C:\Program Files\Keithley Instruments\KickStart`.

KickStart version 2.8.0 requires a software license. You can activate a one-time 30-day free trial with all KickStart apps. For more information on licenses available for KickStart version 2.8.0, please visit tek.com/keithley-kickstart.

For more information on KickStart, see the *KickStart Quick Start Guide* (document number: KKS-903-01), available online at tek.com/keithley-kickstart.

KICKSTART INSTRUMENT CONTROL SOFTWARE HISTORY

Version	Release date
2.8.0	April 2022
2.7.0	November 2021
2.6.0	September 2021
2.5.0	April 2021
2.4.0	November 2020
2.3.0	April 2020
2.2.1	February 2020
2.2.0	November 2019
2.1.1	September 2019
2.1.0	June 2019
2.0.6	February 2019
2.0.5	November 2018
2.0.4	October 2018
2.0.3	August 2018
2.0.2	July 2018
2.0.1	July 2018
2.0.0	April 2018