

RE-INVENTING TEST & MEASUREMENT THROUGH *SPEED* AND *SIMPLICITY*

KickStart



Guide



KEITHLEY
A Tektronix Company

Safety precautions

Before using this product, see the safety precautions associated with your instrument. The instrumentation associated with this software is intended for use by personnel who recognize shock hazards and are familiar with the instrument safety precautions to avoid possible injury or death. Read and follow all installation, operation, and maintenance information carefully before using any instrument.

Refer to the instrument user documentation for complete product specifications. If the product is used in a manner not specified, the protection provided by the product warranty may be impaired.

Safety precaution revision as of January 2018.

KickStart software

KickStart allows you to create apps, manipulate settings, and view and export previous runs without a license. However, to run an app or communicate with and control an instrument, KickStart software requires a license. You can launch a one-time 60-day trial for the KickStart Apps.

Go to tek.com/keithley-kickstart and you will see information about the software. On this page you can also download free trial software and buy or request a quote. Once you purchase KickStart you will have access to all of the base KickStart apps with a floating license. A floating license allows you to manage the transfer of individual license files to different computers.

Manage licenses

You can maintain your licenses from within KickStart. The KickStart software license provides access to KickStart applications and features. A license is activated either by purchasing the software or through a trial. A trial will allow you to use full functionality for a limited period of time.

To install or remove a license, select the key icon  .

You can also view previously entered licenses and the dates and times for when the licenses were entered and checked out and when they expire.

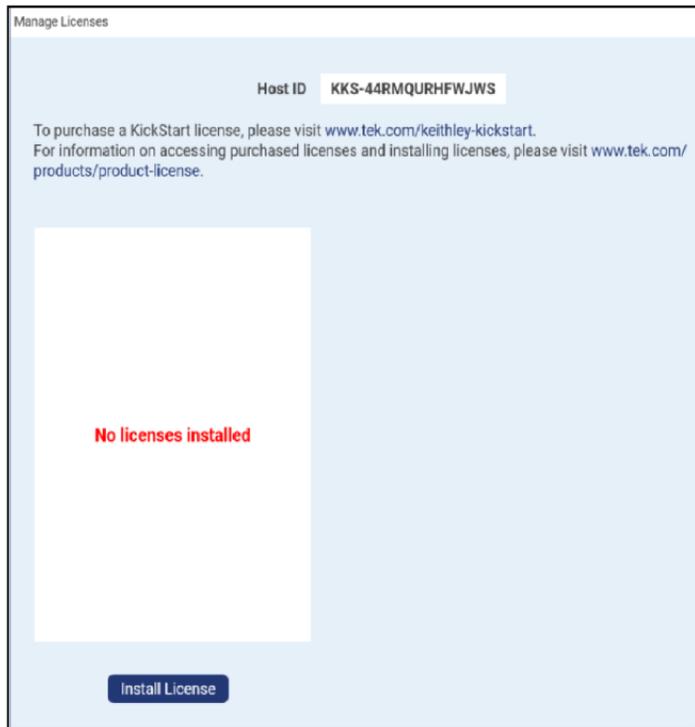
Each license entitles you to unlimited support by Tektronix worldwide technical support centers and field applications engineers.

Install a license

KickStart software licenses are managed using the Tektronix Asset Management System (TekAMS). Each KickStart license is valid for a single computer at a time. Use TekAMS to check out the license for your computer so that you can move the license to a different computer. That process is described on the next page. The email address of the primary user or administrator who manages the license is the license key manager. Key managers are authorized to add users who can then access these licenses and assign them to specific instruments and computers. For more information on TekAMS, see tek.com/products/product-license.

To generate a license file, you must submit your **Host ID** to TekAMS. The **Host ID** is located at the top of the **Manage Licenses** window.

Download the license file from TekAMS and transfer it to the computer that will run KickStart software. Open KickStart software and select the key icon . Using the **Manage Licenses** window, select **Install License** and browse to the downloaded license file. After the license is entered, the license and its details are viewable.



Maintenance and Checkout defined

Maintenance:

Indicates the date your license will expire and when your license is eligible for updates. Once the current license expires, you will not be able to receive future updates.

Checkout:

Indicates the date the checkout will expire and when the license for your specific PC will expire. When you generate your license file in TekAMS, you can set the checkout time. Once checkout expires, you will need to check out another license file in TekAMS. If you need to move the license to a different PC, select **Remove License** to remove it from this PC. Next, check the license into TekAMS, then generate a new license file in TekAMS for the new PC.

Manage Licenses

Host ID **KKS-PQ55HPFJR8MHE**

To purchase a KickStart license, please visit www.tek.com/keithley-kickstart.
For information on accessing purchased licenses and installing licenses, please visit www.tek.com/products/product-license.

| | |
|------------------|--|
| High Resistivity | Maintenance Expires on 10/13/2021 |
| KickStart Suite | Checkout Expires on 10/13/2021 |
| | <input checked="" type="checkbox"/> Advanced |

[Install License](#) [Remove License](#)



- Data Logger
- 1.946 DMM
- High Resistivity
- I-V Characterizer
- Power Supply
- Scope
- I-V Tracer

High Resistivity-1

Settings Table Graph

Manage Licenses

Host ID **KKS-PQ55HPFJR8MHE**

To purchase a KickStart license, please visit www.tek.com/keithley-kickstart.
For information on accessing purchased licenses and installing licenses, please visit www.tek.com/products/product-license.

| | |
|-------------------------|--|
| High Resistivity | Maintenance |
| | Expires on 10/13/2021 |
| | Checkout |
| | Expires on 10/13/2021 |
| | <input checked="" type="checkbox"/> Advanced |

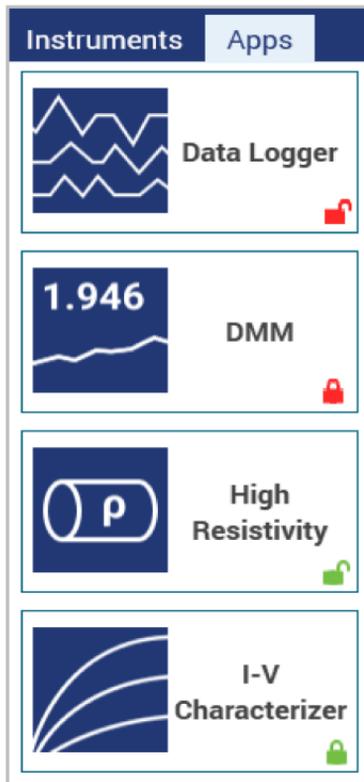
Install License **Remove License**

If you purchased a license, select the Key icon to manage licenses.

Select Install License.

The screenshot displays a software application window titled "High Resistivity-1" with a sidebar of instrument icons and a main workspace. A "Manage Licenses" dialog box is open, showing the "Host ID" as "KKS-PQ55HPFJR8MHE" and a message: "To purchase a KickStart license, please visit www.tek.com/keithley-kickstart." An "Open File" dialog box is also open, showing the "Downloads" folder. A file named "---_KKS-PQ55HPFJR8MHE_KICKSTARTFL-HRMA2..." is selected, with a date modified of "10/13/2020 11:14:42 AM", type of "LIC File", and size of "3 KB". The "File name" field contains "---_KKS-PQ55HPFJR8MHE_KICKSTARTFL-HRMA2_ENTER.LIC" and the file type is set to "License File (*.lic)". The "Open" button is highlighted by a yellow callout box with the text "Select Open to install the license." The "Open" and "Cancel" buttons are visible at the bottom of the "Open File" dialog.

Select Open to install the license.



When you first open KickStart, the Instruments tab displays available instruments on the left. Select the Apps tab and you will see a lock on each App. The text below describes the licenses and lock icons:

Red unlocked indicates a license or trial that will expire soon. The lock turns red when the license or trial is within 45 days of expiration.

Red lock indicates the license has expired. Also, no trial is available.

Green unlocked indicates a license or trial in use. The trial is for a limited time.

Green locked indicates a trial is available. The trial has not been activated.

Instruments Apps

Data Logger

1.946 DMM

High Resistivity

I-V Characterizer

Power Supply

Scope

I-V Tracer

Confirm Trial Start

The High Resistivity app requires a valid license to collect data. You can view settings or view previous data without a license. A 60-day trial is available to enable full functionality.

Start Trial View Only

View Only allows you to view the settings of the app without starting a trial.

Notice the High Resistivity app has a green lock indicating a trial is available. Select Start Trial to activate.



Instruments Apps

 Data Logger

1.946
 DMM

 High Resistivity

 I-V Characterizer

 Power Supply

 Scope

 I-V Tracer

Hover the cursor over the lock to see information about the license or trial.

High Resistivity
Trial Activated
Remaining: 51 days

The High Resistivity app trial has been activated.



Instruments Apps

DAQ

DAQ6510

My USB DAQ6510

LAN : 134.63.74.17

DMM

DMM7510

My DMM7510

USB

Shelved Instruments

Advanced Discovery

Enter an IP address.

Simulated Instruments

Model

Name

Add

Advanced

Select an instrument name to change it. Right-click it to view more details.

Instruments are automatically discovered and appear in the instruments pane.

Select to change your color theme.

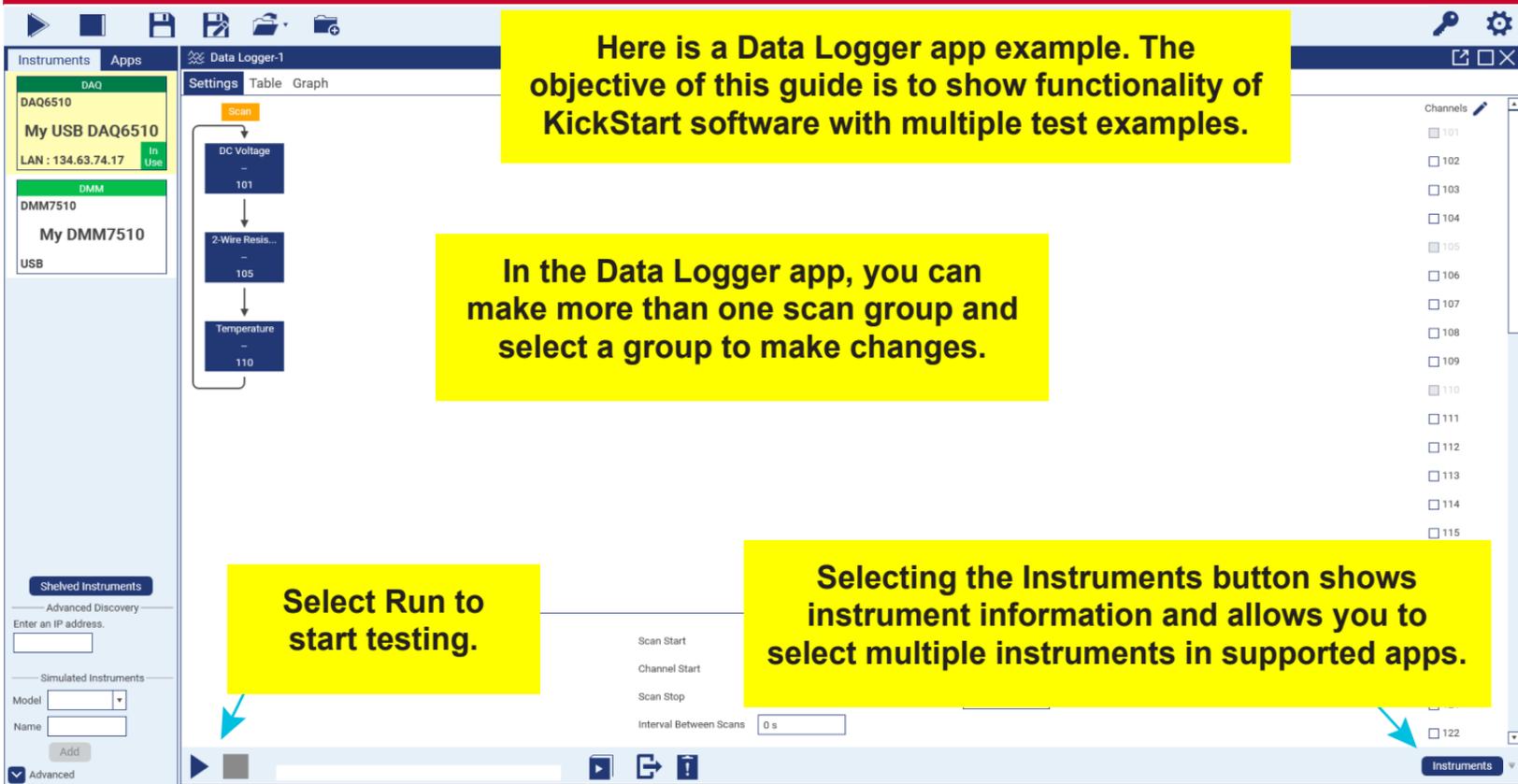
The screenshot shows a software interface with a top toolbar containing icons for play, stop, save, and other functions. Below the toolbar are two tabs: 'Instruments' and 'Apps'. The 'Apps' tab is active, displaying a list of installed applications. The first application is 'DAQ6510' with the name 'My USB DAQ6510' and LAN address '134.63.74.17'. The second application is 'DMM7510' with the name 'My DMM7510' and 'USB' connection. Below the app list is a 'Shelved Instruments' section with an 'Advanced Discovery' subsection containing an 'Enter an IP address' field. Below that is a 'Simulated Instruments' section with a 'Model' dropdown menu, a 'Name' text field, and an 'Add' button. At the bottom left, there is a checked checkbox labeled 'Advanced'.

To launch an app, double-click or drag the instrument to the main window. For example, the Data Logger app has been added.



You can add multiple instruments and select an app for each one.

Select the app and select OK to run it.



Here is a Data Logger app example. The objective of this guide is to show functionality of KickStart software with multiple test examples.

In the Data Logger app, you can make more than one scan group and select a group to make changes.

Select Run to start testing.

Selecting the Instruments button shows instrument information and allows you to select multiple instruments in supported apps.

Data Logger app test results Table

| | 101 | 105 | 110 |
|---------------|------------|-------------|------------------|
| | Time (s) | Voltage (V) | Temperature (°C) |
| 1 | 0.000000 | 130.4924e-3 | Overflow |
| 2 | 183.255e-3 | 1.333125e-3 | Overflow |
| 3 | 316.697e-3 | 1.087836e-3 | Overflow |
| 4 | 433.421e-3 | 1.090553e-3 | Overflow |
| 5 | 566.798e-3 | 1.057833e-3 | Overflow |
| 6 | 700.186e-3 | 1.323632e-3 | Overflow |
| 7 | 816.904e-3 | 1.161639e-3 | Overflow |
| 8 | 950.268e-3 | 1.263899e-3 | Overflow |
| 9 | 1.066995 | 1.175119e-3 | Overflow |
| 10 | 1.200366 | 1.176510e-3 | Overflow |
| 11 | 1.333750 | 1.320319e-3 | Overflow |
| 12 | 1.450469 | 1.231441e-3 | Overflow |
| 13 | 1.583839 | 1.277140e-3 | Overflow |
| 14 | 1.700551 | 1.197838e-3 | Overflow |
| 15 | 1.833928 | 1.143120e-3 | Overflow |
| 16 | 1.967314 | 1.390603e-3 | Overflow |
| 17 | 2.084032 | 1.176756e-3 | Overflow |
| 18 | 2.217402 | 1.256484e-3 | Overflow |
| 19 | 2.334122 | 1.184285e-3 | Overflow |
| 20 | 2.467497 | 1.213338e-3 | Overflow |
| 21 | 2.600878 | 1.374660e-3 | Overflow |
| 22 | 2.717605 | 1.184874e-3 | Overflow |
| 23 | 2.850977 | 1.159177e-3 | Overflow |
| 24 | 2.967709 | 1.214419e-3 | Overflow |
| 25 | 3.101079 | 1.125066e-3 | Overflow |
| 26 | 3.234450 | 1.123338e-3 | Overflow |
| Min | 0.000000 | 130.4924e-6 | Overflow |
| Max | 10.453846 | 1.729782e-3 | Overflow |
| Mean | 5.254503 | 1.222797e-3 | 0.000000 |
| StdDev | 3.055702 | 164.0915e-6 | 0.000000 |

Rename or hide a column by moving your cursor to the far right and selecting the drop-down menu.

The screenshot shows the Data Logger app interface. On the left, there are panels for 'My USB DAQ6510', 'My DMM7510', and 'Shelved Instruments'. The main area displays a table of test results with columns for Time (s), Voltage (V), and Temperature (°C). A yellow callout box highlights the 'Rename channel...' and 'Hide' options in the column headers. The bottom of the interface shows a progress bar at 83% and a 'Data Logger-1' title bar.

Data Logger app test results Graph

Instruments | **Apps**

DAQ
DAQ6510
My USB DAQ6510
LAN : 134.63.74.17 In Use

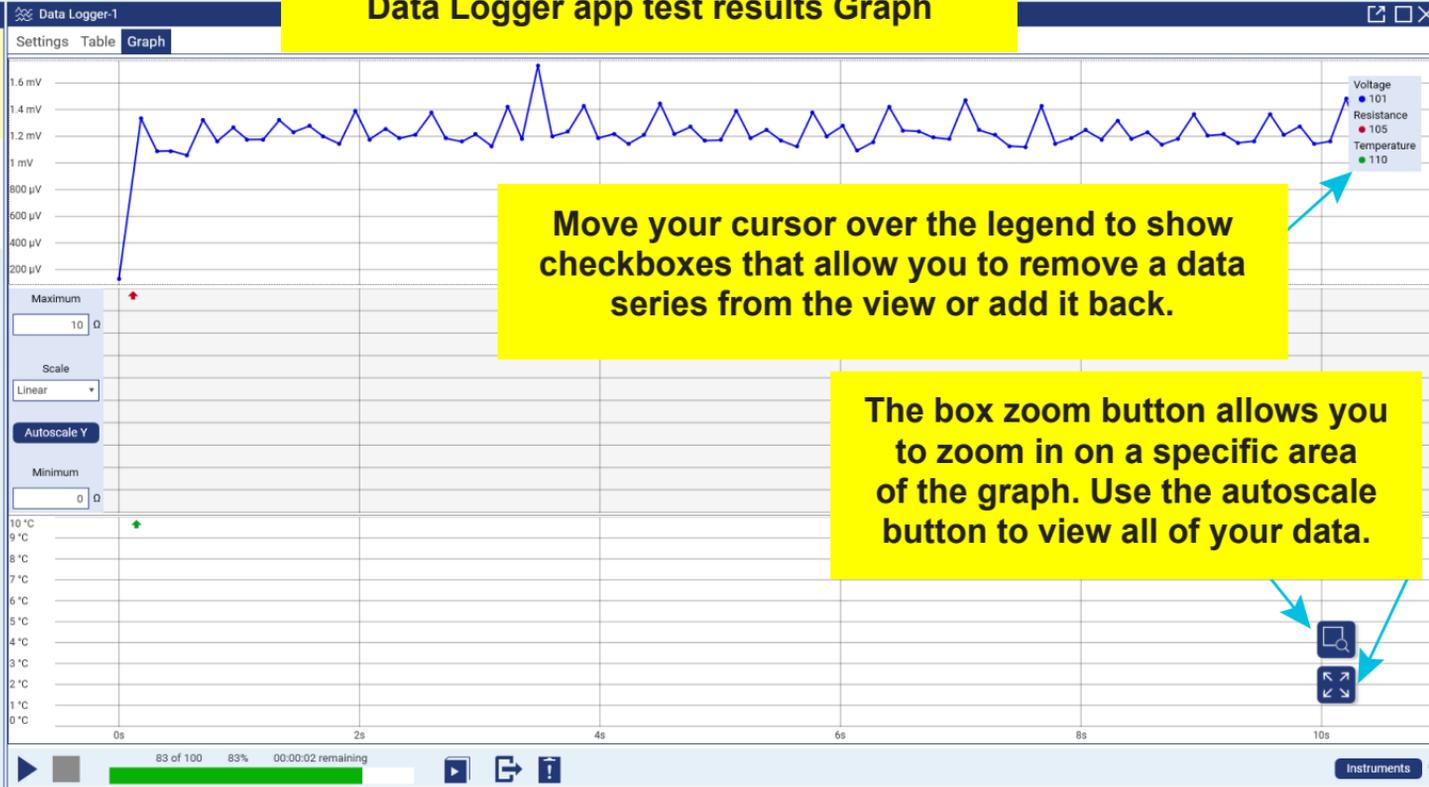
DMM
DMM7510
My DMM7510
USB

Shelved Instruments

Advanced Discovery
Enter an IP address:

Simulated Instruments
Model:
Name:

Advanced

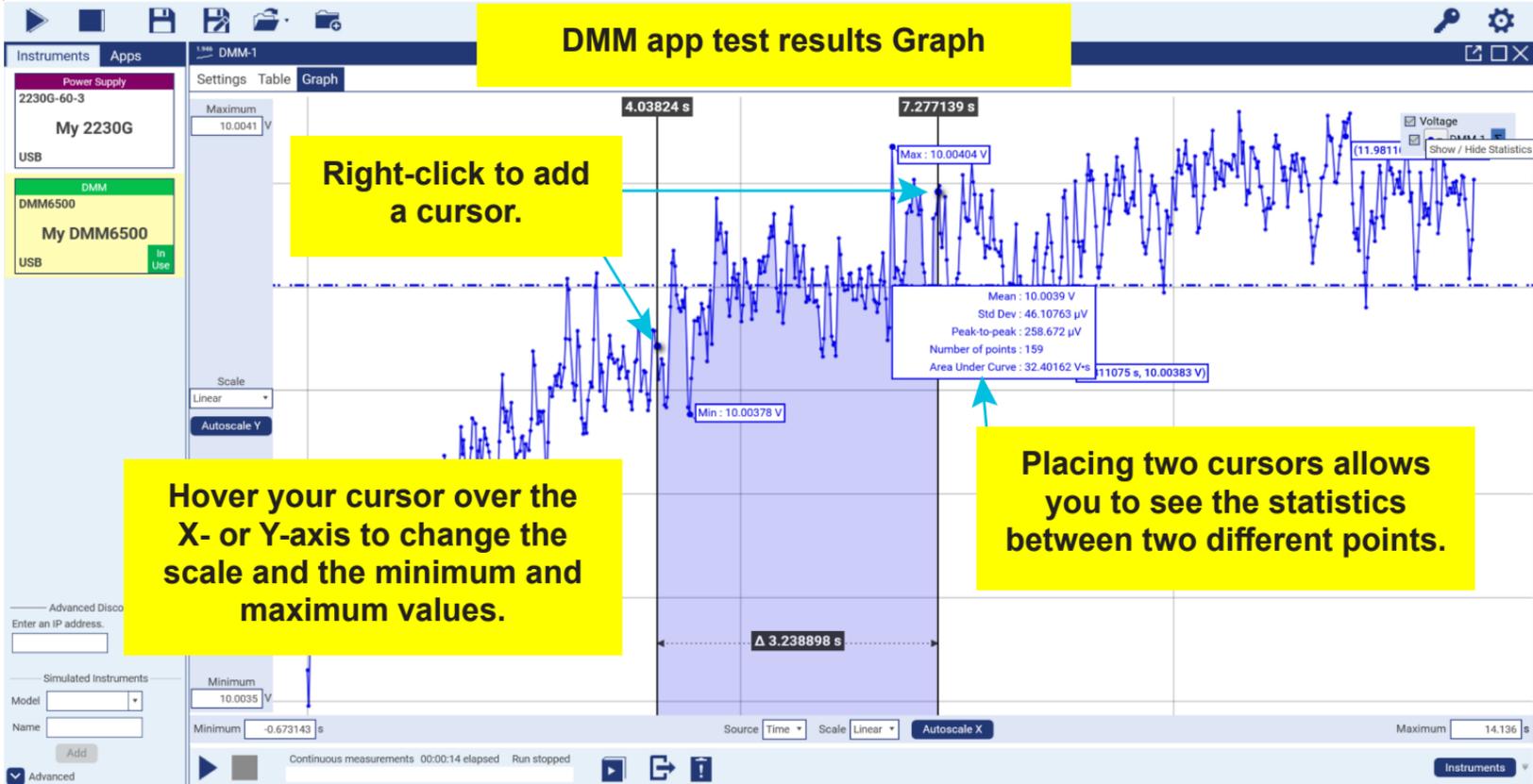


Move your cursor over the legend to show checkboxes that allow you to remove a data series from the view or add it back.

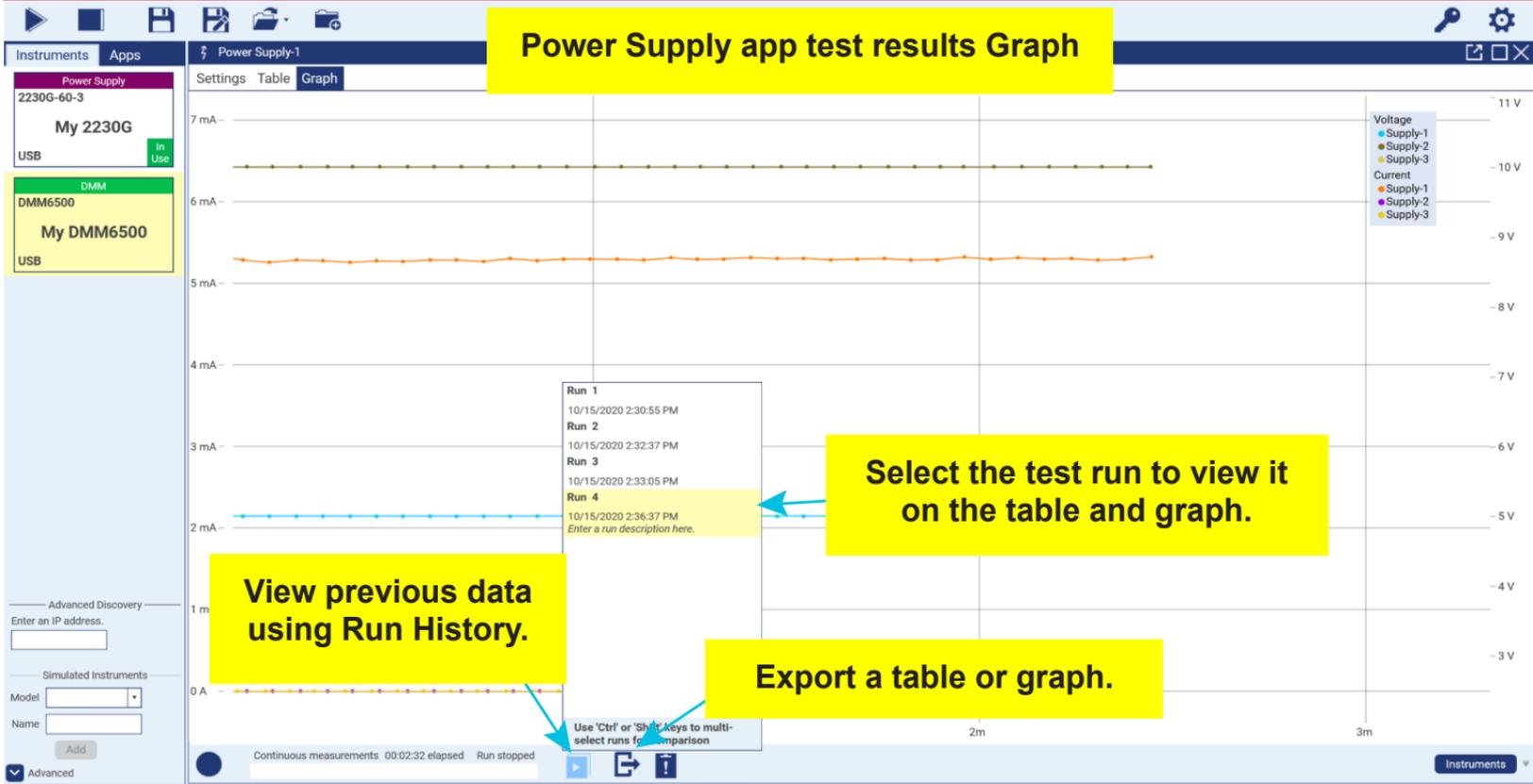
The box zoom button allows you to zoom in on a specific area of the graph. Use the autoscale button to view all of your data.



DMM app test results Graph



Power Supply app test results Graph



Export selected data

When you select the export icon, the Export Data window opens. Here you can choose to export a table, graph, or both.

You can set your runs to export automatically. Make sure you choose the path for the saved files and create a file name.

You can export all of the runs or selected runs.

Export Data

Export Table

Format

Exclude hidden data

Include test configuration

Export Graph

Color theme Light Dark

Resolution

Show gridlines

Automatically export new runs

Path

Filename

Example DMM-1 Run 1 2020-10-20T12.01.09.png
DMM-1 Run 1 2020-10-20T12.01.09.csv

Run 1

Run 1

Scope app test Settings

Instruments Apps Scope-1
Settings Table Graph
My USB DAQ6510

In the Scope app, select the Graph tab in Waveforms mode to confirm that the correct waveform was retrieved.

Select the mode that relates to your data.

Mode

- Waveforms
- Measurements
- Screenshots

Save Oscilloscope Setup to File

Load Setup File to Oscilloscope

Stop Capture Count

Channel 1 ON Retrieve Data

Label
Vertical scale 1 V/div
Coupling DC
Probe type TPP1000

Channel 2 ON Retrieve Data

Label
Vertical scale 100 mV/div
Coupling DC
Probe type Other

Channel 3 OFF

Label
Vertical scale 100 mV/div
Coupling DC
Probe type Other

Channel 4 ON Retrieve Data

Label
Vertical scale 100 mV/div
Coupling DC
Probe type Other

References
 Math

Set when the capture occurs.

Channel information is shown here. Select Retrieve Data to see the data collected on this channel.

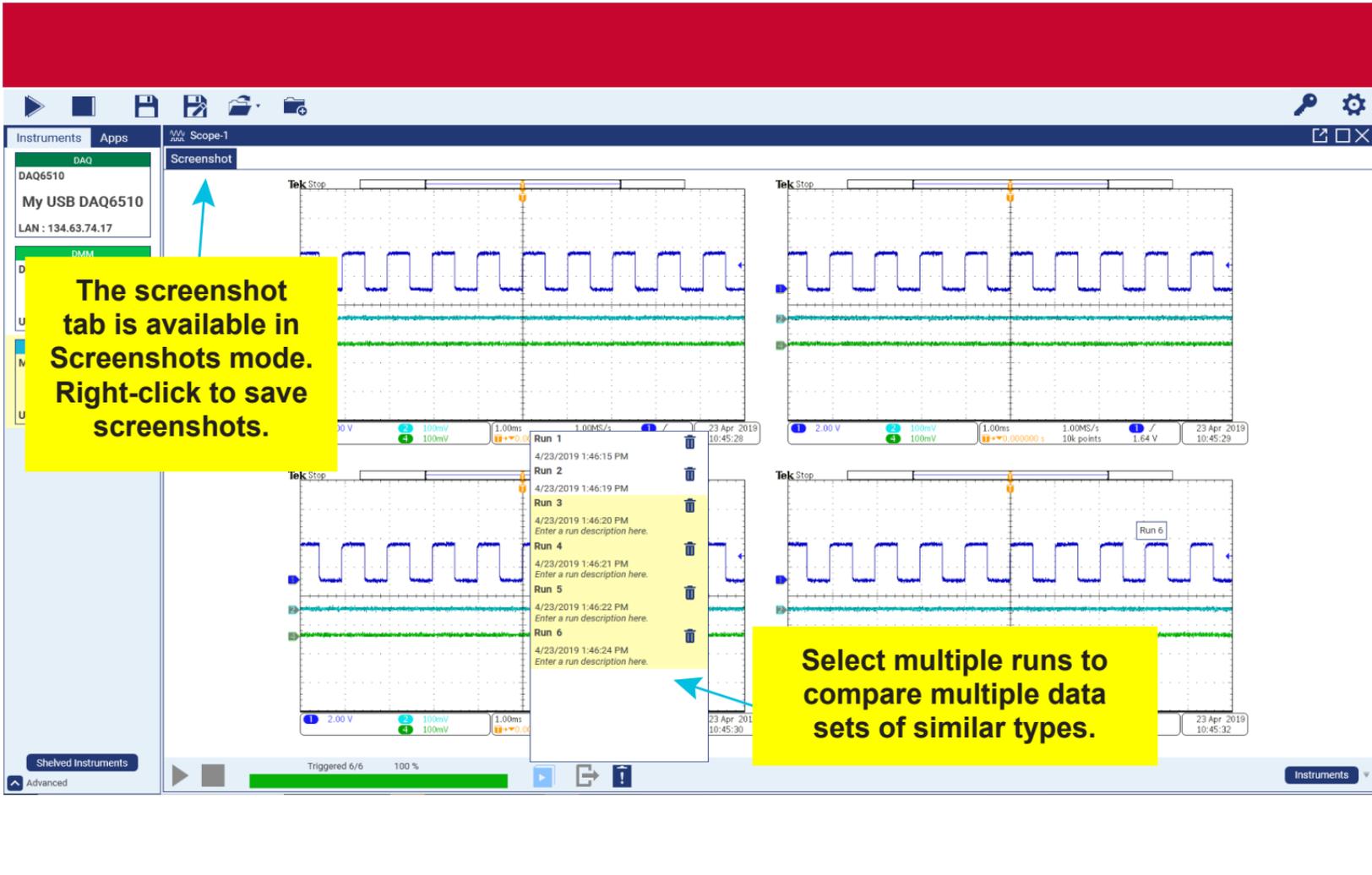
You are unable to retrieve data from disabled channels. Enable or disable channels from your instrument.

Acquisition Settings

Acquisition Mode Stopped Sample Rate 1 MHz
Record Length 10 k Trigger Type Edge
Horizontal Scale 1 ms/div Trigger Source CH1

Advanced

▶ ◀ ↻ ⓘ



The screenshot tab is available in Screenshots mode. Right-click to save screenshots.

Select multiple runs to compare multiple data sets of similar types.

Next steps

For more information and to view documentation specific to your instrument, see the Keithley Instruments website, [tek.com/keithley](https://www.tek.com/keithley).

Contact information: 1-800-833-9200

For additional contacts, see <https://www.tek.com/contact-us>

Find more valuable resources at TEK.COM.
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