

# 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 trial for the KickStart Apps.

Go to [tek.com/keithley-kickstart](http://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.

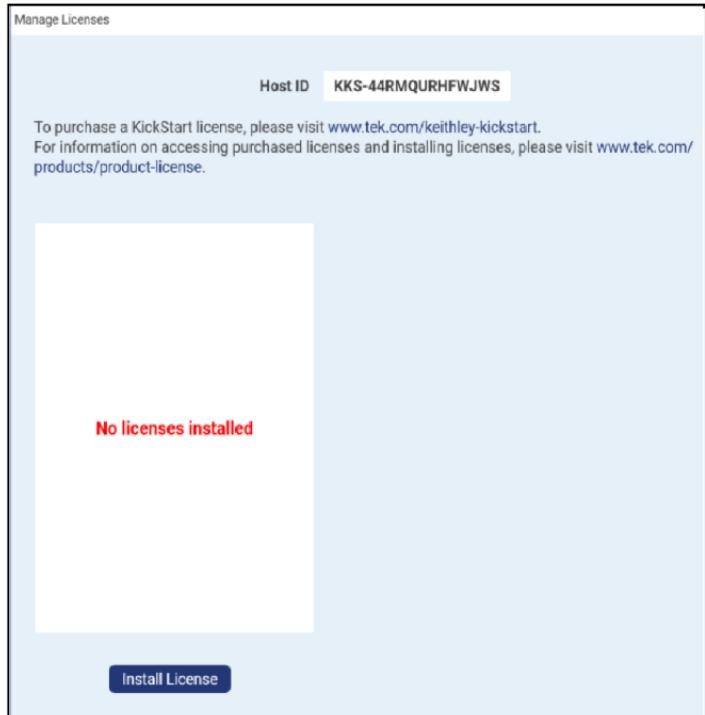
Each license entitles you to support by Tektronix worldwide technical support centers and field applications engineers.

## 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](http://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.

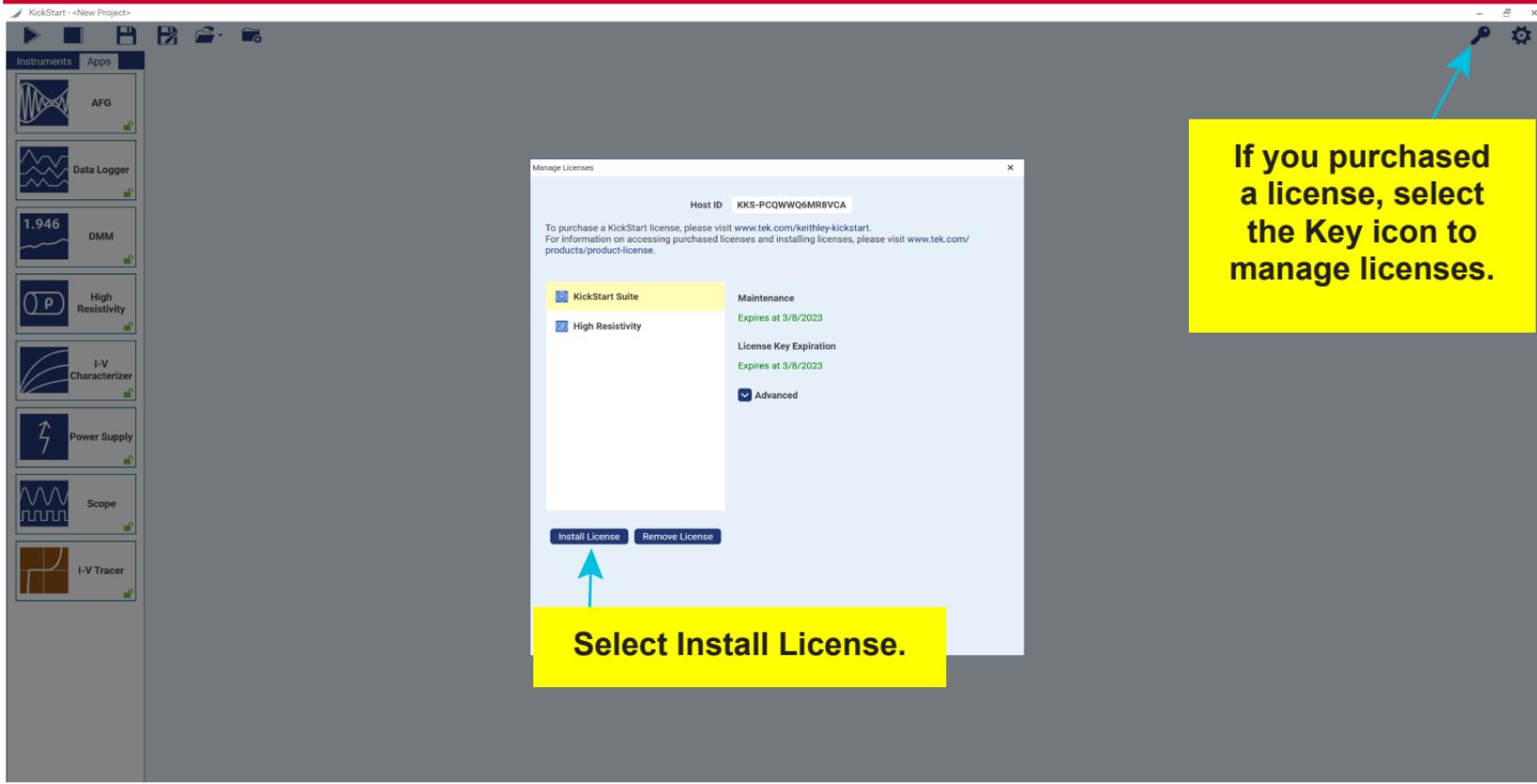
Manage Licenses

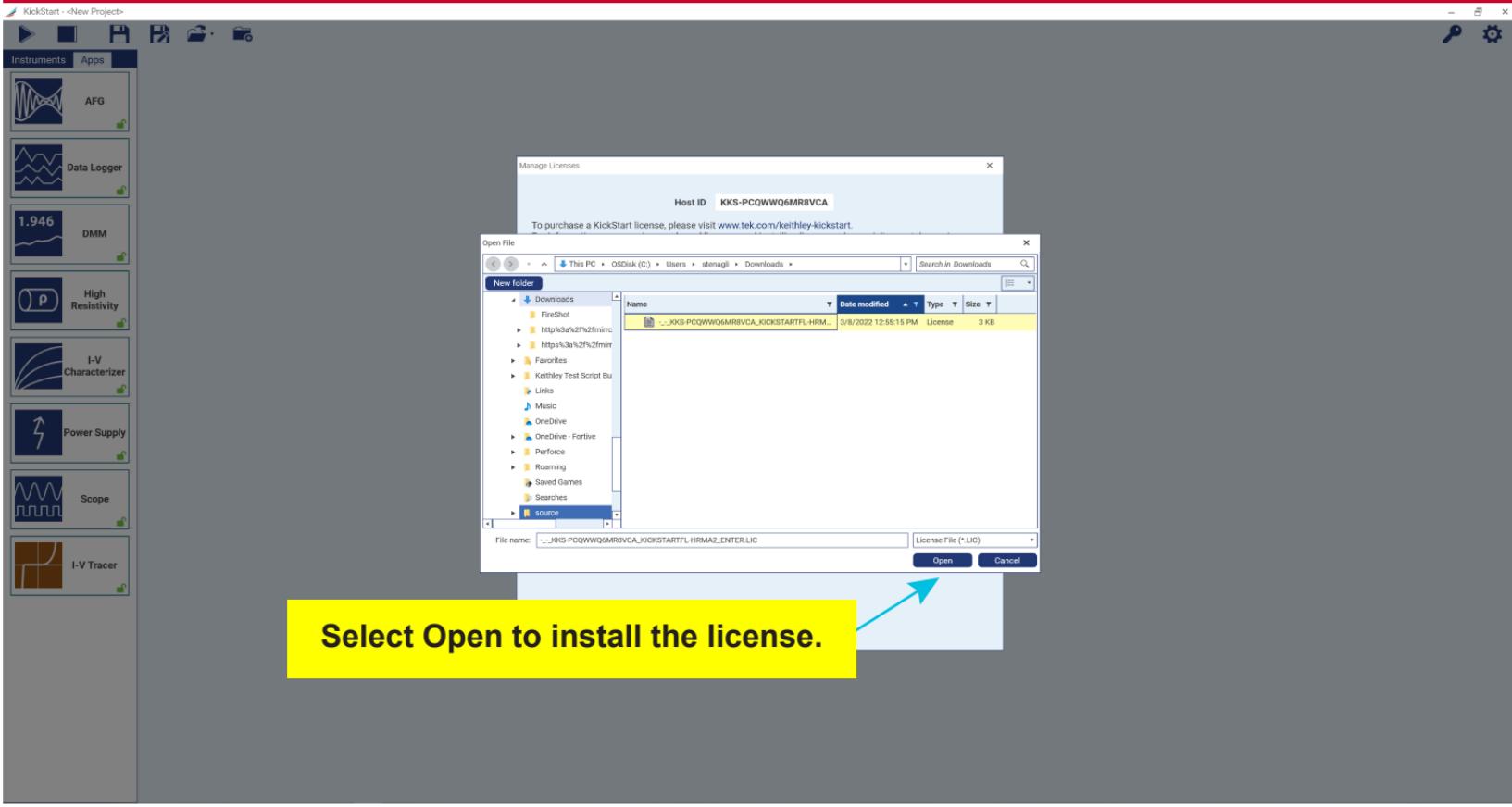
Host ID KKS-PQ55HPFJR8MHE

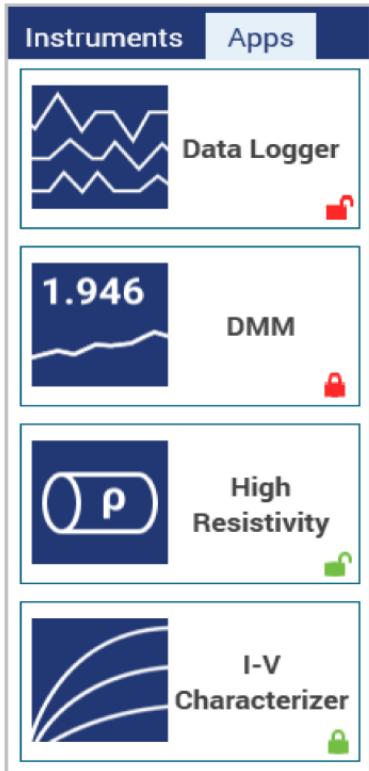
To purchase a KickStart license, please visit [www.tek.com/keithley-kickstart](http://www.tek.com/keithley-kickstart).  
For information on accessing purchased licenses and installing licenses, please visit [www.tek.com/products/product-license](http://www.tek.com/products/product-license).

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

**Install License** **Remove 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



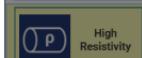
AFG



Data Logger



DMM



High Resistivity



I-V

Characterizer



Power Supply



Scope



I-V Tracer



**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



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



High Resistivity  
Trial Activated  
Remaining: 29 days



The High Resistivity app trial has been activated.



The screenshot shows the LabVIEW interface with the Instruments pane open. At the top, there are standard window controls (minimize, maximize, close) and a toolbar with icons for search, file operations, and help.

The Instruments pane is divided into sections:

- Instruments**: A list of discovered instruments:
  - DAQ  
DAQ6510  
My USB DAQ6510  
LAN : 134.63.74.17
  - DMM  
DMM7510  
My DMM7510  
USB
- Shelfed Instruments**: A section for managing simulated instruments:
  - Advanced Discovery: A field labeled "Enter an IP address" with a placeholder "192.168.1.100".
  - Simulated Instruments: Fields for "Model" (dropdown menu) and "Name" (text input), with an "Add" button below them.
  - A checkbox for "Advanced" is at the bottom.

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.

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

Select the app and select OK to run it.

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

The screenshot shows the LabVIEW interface with a 'Select an app' dialog box overlaid. The dialog box contains two items: 'Data Logger' (represented by a waveform icon) and 'DMM' (represented by a digital meter icon showing '1.946'). Below the list are 'OK' and 'Cancel' buttons. Two blue arrows point from the yellow callout boxes to the 'OK' button and the 'Data Logger' item respectively. The background shows the LabVIEW shelf with various instrument icons and a search bar for 'Shelfed Instruments'.

The screenshot shows the KickStart software interface with the Data Logger app open. The left sidebar lists instruments: DAQ (DAQ6510, My USB DAQ6510, LAN: 134.63.74.17, In Use) and DMM (DMM7510, My DMM7510, USB). The main window shows the Data Logger-1 configuration with a scan group containing three channels: DC Voltage (101), 2-Wire Resist... (105), and Temperature (110). A yellow callout box highlights this configuration with the text: "Here is a Data Logger app example. The objective of this guide is to show functionality of KickStart software with multiple test examples." Another yellow callout box highlights the scan group structure with the text: "In the Data Logger app, you can make more than one scan group and select a group to make changes." A third yellow callout box highlights the 'Run' button with the text: "Select Run to start testing." A fourth yellow callout box highlights the 'Instruments' button in the bottom right corner with the text: "Selecting the Instruments button shows instrument information and allows you to select multiple instruments in supported apps." The bottom right corner also shows a list of channels from 101 to 122.

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**

Instruments Apps

DAQ

DAQ6510  
My USB DAQ6510  
LAN : 134.63.74.17 In Use

DMM

DMM7510  
My DMM7510  
USB

Shelfed Instruments

Advanced Discovery

Enter an IP address.

Simulated Instruments

Model  Name

Advanced

File

Settings Table Graph

101 105 110

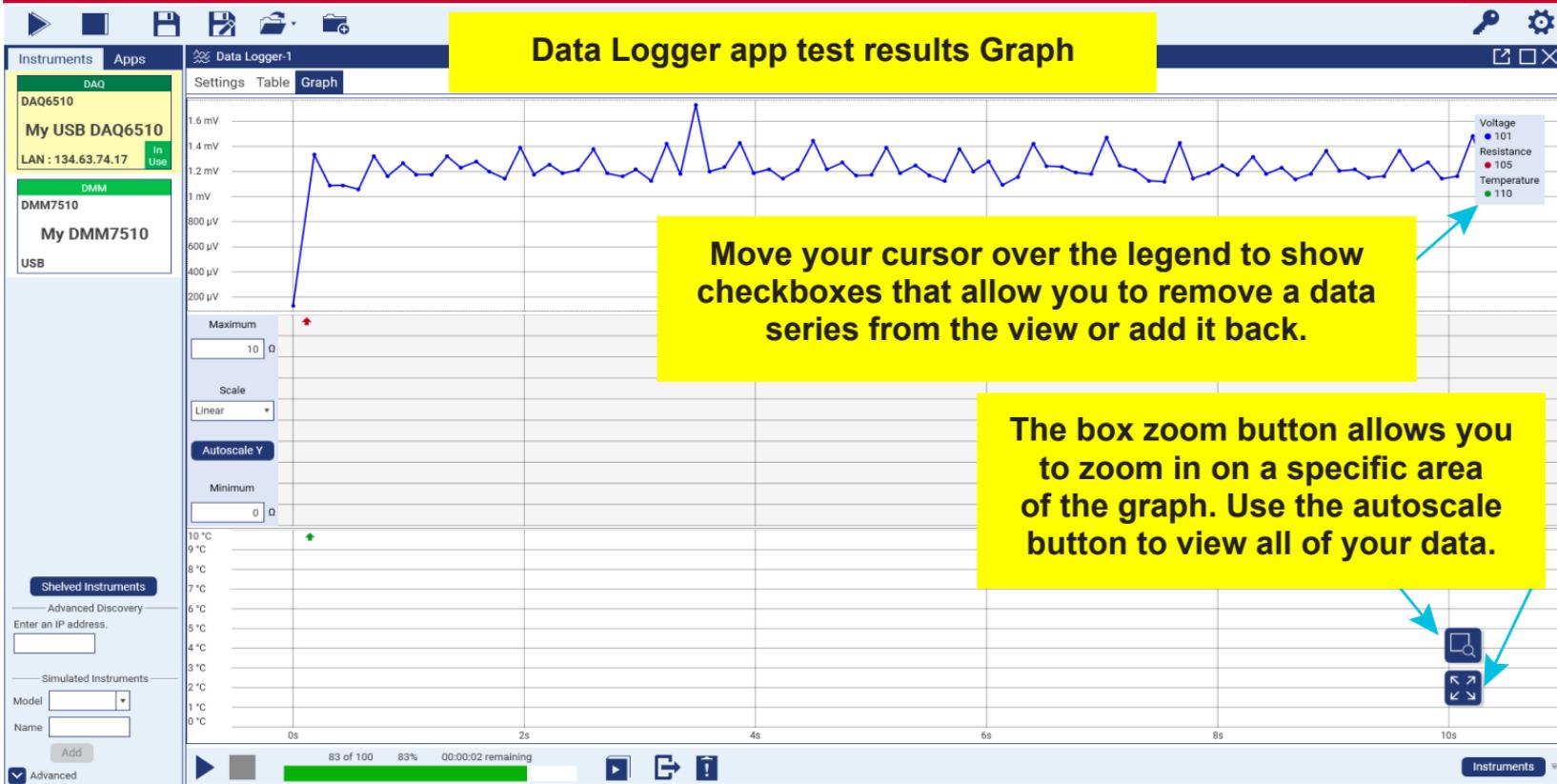
Time (s) Voltage (V) Rename channel... Hide

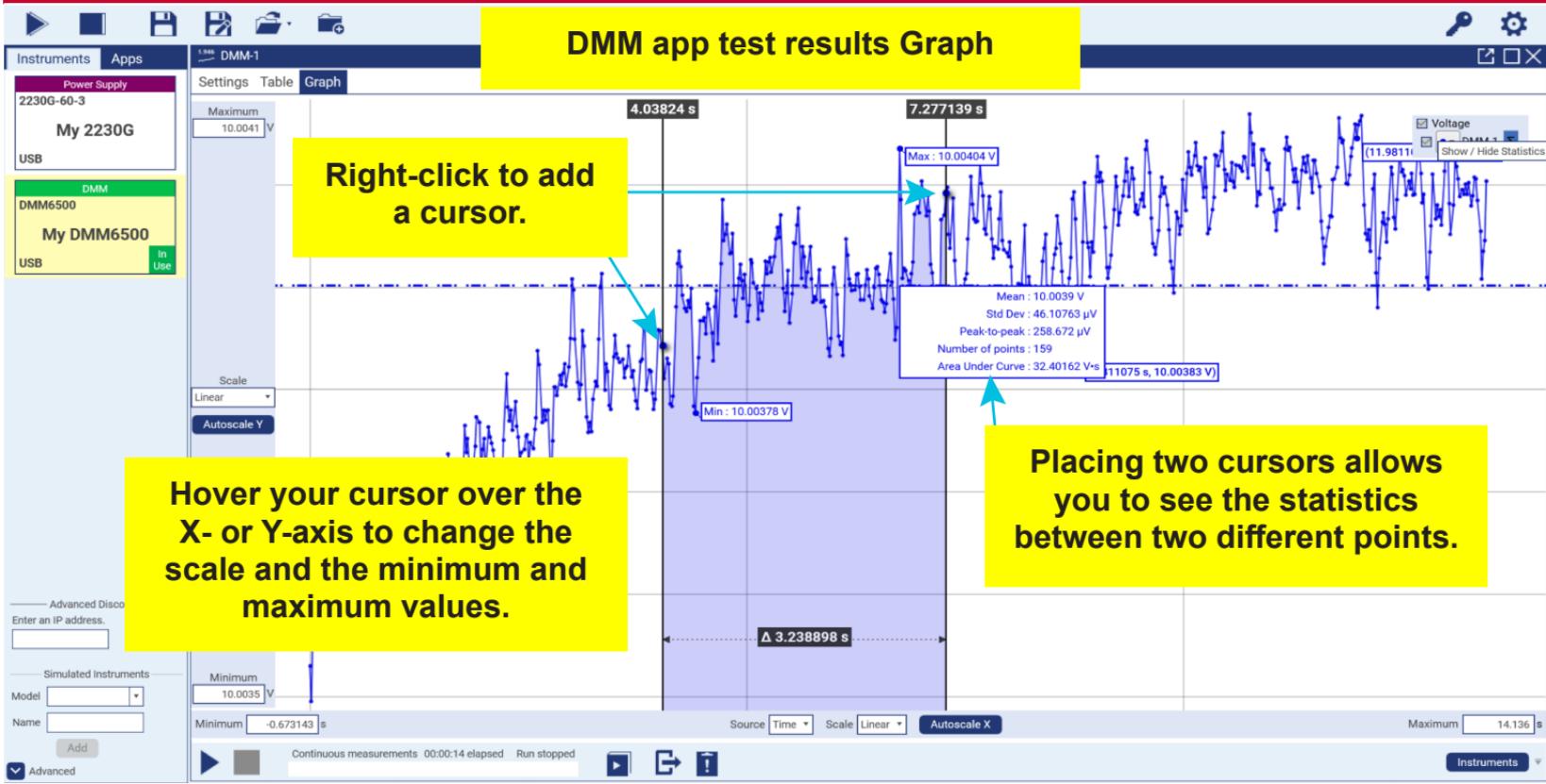
	Time (s)	Voltage (V)	Rename channel...	Hide	Overflow	Overflow
1	0.00000	130.4924e-0			Overflow	Overflow
2	183.255e-3	1.333125e-3			Overflow	Overflow
3	316.697e-3	1.087836e-3			Overflow	Overflow
4	433.421e-3	1.090553e-3			Overflow	Overflow
5	566.798e-3	1.057833e-3			Overflow	Overflow
6	700.186e-3	1.323632e-3			Overflow	Overflow
7	816.904e-3	1.161639e-3			Overflow	Overflow
8	950.268e-3	1.263899e-3			Overflow	Overflow
9	1.066995	1.175119e-3			Overflow	Overflow
10	1.200366	1.176510e-3			Overflow	Overflow
11	1.333750	1.320319e-3			Overflow	Overflow
12	1.450469	1.231441e-3			Overflow	Overflow
13	1.583839	1.277140e-3			Overflow	Overflow
14	1.700551	1.197838e-3			Overflow	Overflow
15	1.833928	1.143120e-3			Overflow	Overflow
16	1.967314	1.390603e-3			Overflow	Overflow
17	2.084032	1.176756e-3			Overflow	Overflow
18	2.217402	1.256484e-3			Overflow	Overflow
19	2.334124	1.184285e-3			Overflow	Overflow
20	2.467497	1.213338e-3			Overflow	Overflow
21	2.600878	1.374660e-3			Overflow	Overflow
22	2.717605	1.184874e-3			Overflow	Overflow
23	2.850977	1.159177e-3			Overflow	Overflow
24	2.967709	1.214419e-3			Overflow	Overflow
25	3.101079	1.125066e-3			Overflow	Overflow
26	3.224460	1.422222e-3			Overflow	Overflow
Min	0.00000	130.4924e-0			Overflow	Overflow
Max	10.453846	1.729782e-3			Overflow	Overflow
Mean	5.254503	1.222797e-3			0.000000	0.00
StdDev	3.055702	164.0915e-6			0.000000	0.00

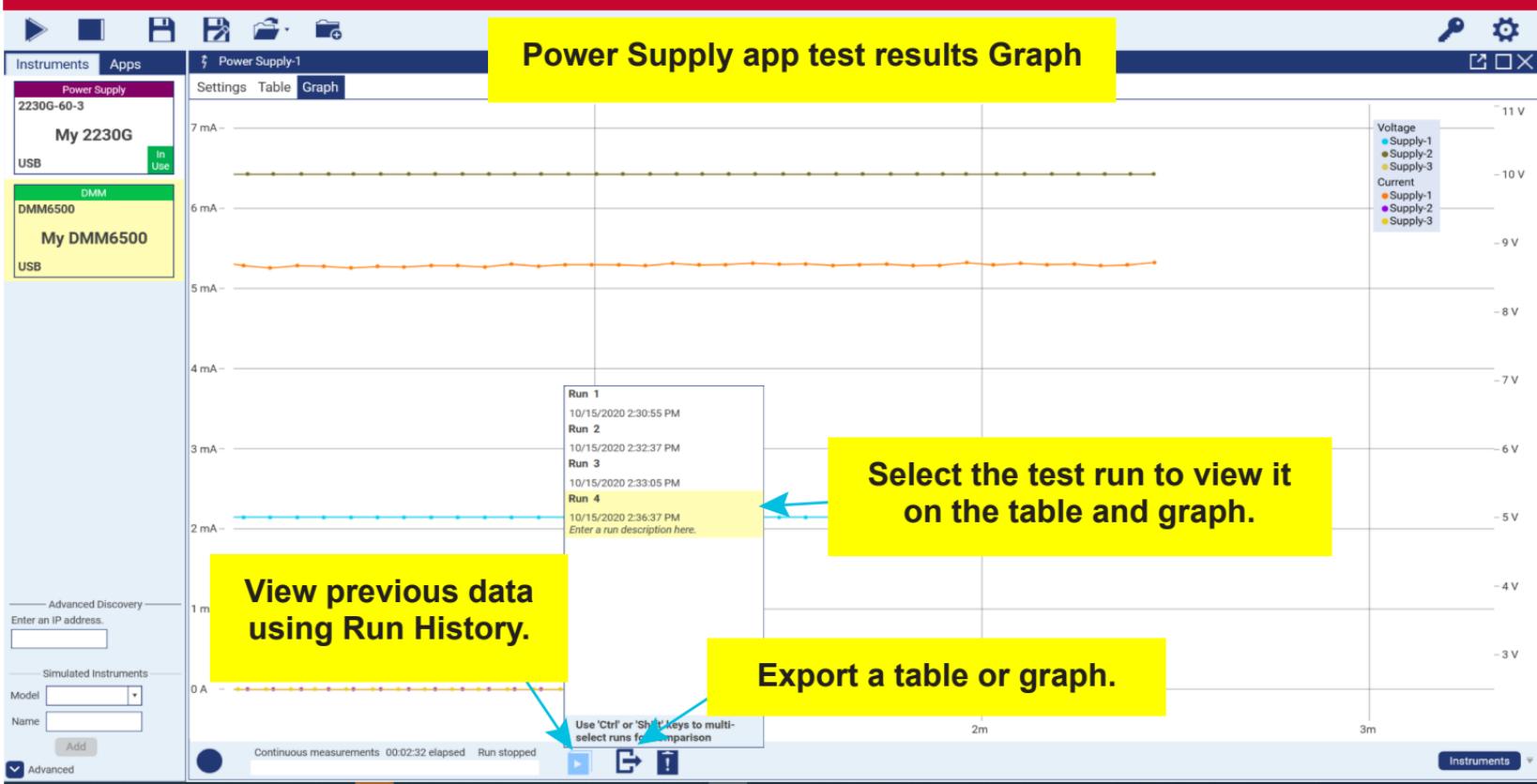
83 of 100 83% 00:00:02 remaining

▶ ⌛ ↻ ⓘ

Instruments





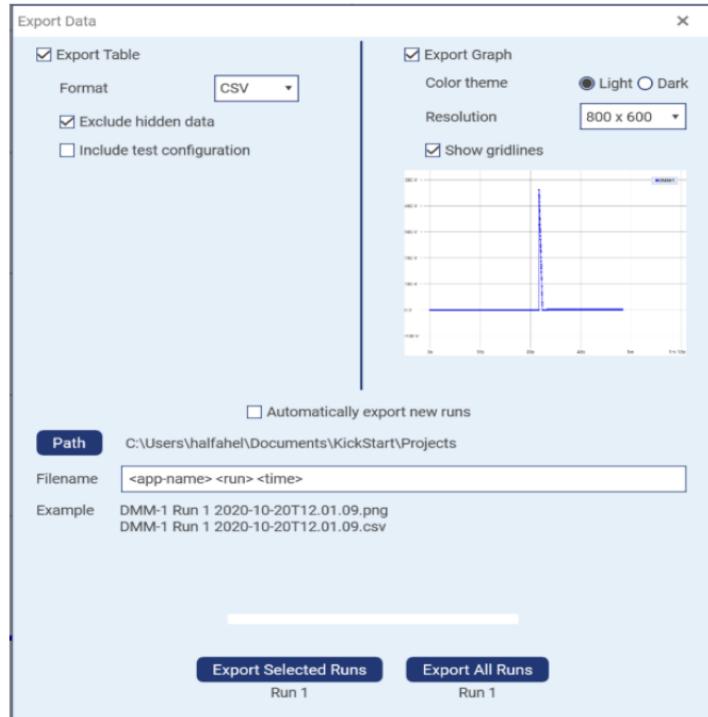


## Export selected data

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.



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

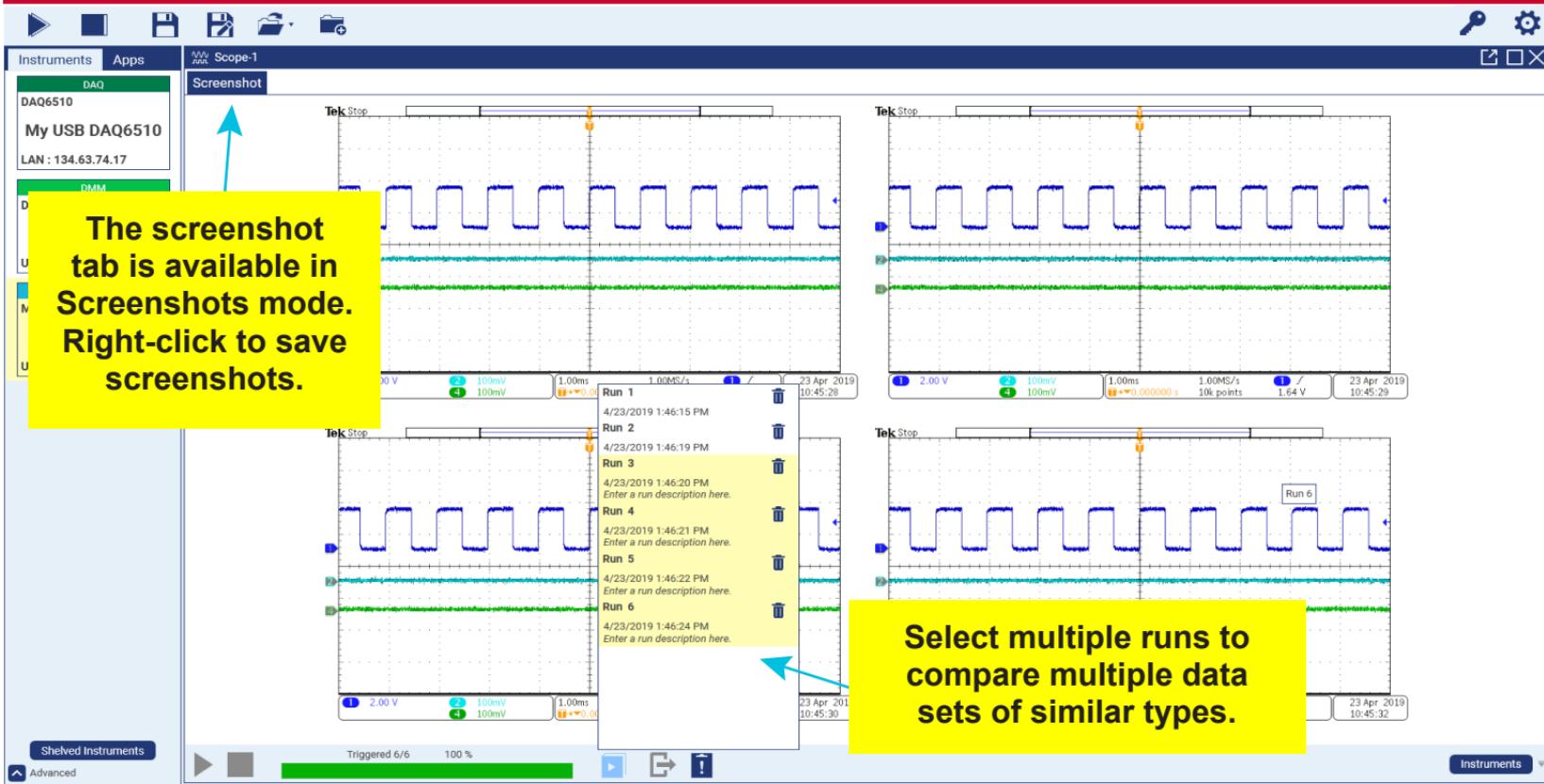
Select the mode that relates to your data.

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.

The screenshot shows the 'Scope app test Settings' window. On the left, there's a sidebar with 'Instruments' and 'Shelfed Instruments' sections. The main area has tabs for 'Settings', 'Table', and 'Graph'. A large yellow box highlights the 'Graph' tab. Below it, a column of buttons for 'Mode' includes 'Waveforms' (selected), 'Measurements', and 'Screenshots'. Under 'Waveforms', there are four sections for 'Channel 1' through 'Channel 4', each with settings like 'ON', 'Label', 'Vertical scale', 'Coupling', 'Probe type', and a 'Retrieve Data' checkbox. A blue arrow points from the 'Graph' tab to the 'Waveforms' mode button. Another blue arrow points from the 'Retrieve Data' checkbox in the Channel 1 section to the text 'Set when the capture occurs.'. A third blue arrow points from the 'Retrieve Data' checkbox in the Channel 4 section to the text 'Channel information is shown here. Select Retrieve Data to see the data collected on this channel.' At the bottom, 'Acquisition Settings' show 'Acquisition Mode: Stopped', 'Record Length: 10 k', 'Horizontal Scale: 1 ms/div', 'Sample Rate: 1 MHz', 'Trigger Type: Edge', and 'Trigger Source: CH1'. Buttons for 'Save Oscilloscope Setup to File' and 'Load Setup File to Oscilloscope' are also present.



## Next steps

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

**Contact information: 1-800-833-9200**

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

Find more valuable resources at TEK.COM.  
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KKS-903-01 Rev. K April 2022

