

Keysight Technologies

Migrating to the Latest Keysight Software for the 34972/70A Data Acquisition Units

Migration Guide



Unlocking Measurement Insights

Keysight's BenchVue Data Acquisition (DAQ) Control and Analysis app (BV0006B) is the next-generation software application for users that own Keysight's 34972A or 34970A data acquisition units. Many of the features that were popular in the BenchLink Data Logger Pro Software (34830A); BenchLink Data Logger 3 software (34825A); or the previous BenchVue DAQ and DAQ Pro version apps (v3.x and below) have been updated and included in the modern BenchVue DAQ app with more features and updates to come. The table on page 3 provides easy reference regarding which features are available, enhanced, and ready for you to use with the new BenchVue DAQ app. Effortlessly, migrate from older DAQ software to the new BenchVue DAQ Control and Analysis app and start driving measurements to actionable insights faster today.

BenchVue Software

Keysight BenchVue software for the PC eliminates many of the issues around bench testing. By making it simple to connect, control instruments, and automate test sequences you can quickly move past the test development phase and access results faster than ever before. You will derive answers faster by easily viewing, logging and exporting measurement data and screen images with only a few clicks of your mouse. Dedicated instrument apps allow you to quickly configure the most commonly used measurements and setups for each instrument family. BenchVue apps provide extensive data, trace and measurement logging capabilities and automation with Test Flow. BenchVue supports hundreds of Keysight instrument types and models all from one easy to use application. With BenchVue, you get more from your instruments.

Test Flow Automation

Included with the DAQ app is BenchVue Test Flow which allows you to quickly build automated test sequences, send SCPI commands, and control multiple instruments. Gain deeper access to your instrument's capabilities with Command Expert sequences integrated into Test Flow. The intuitive interface enables you to quickly create instrument test sequences significantly reducing test development time.

Keysight continues to provide enhancements to the BenchVue DAQ app to integrate more Test Flow automatable controls (available late 2017) making it even easier to build test sequences.

Keysight Software Features and Enhancements Comparisons

Feature	BenchVue DAQ 3.0 (Pro)	BenchLink Data Logger 3 (34825A)	BenchLink Data Logger Pro (34830A)	BenchVue 2017 Data Acquisition Control & Analysis app (BV0006B)
Configuration				
Channel identification shown on charts	Channel number only	Channel number, name	Channel number, name	Channel number, name, units
Computed channels	Basic math, power, strain	Basic math, power, strain	Math editor, power, strain	Basic math, power, strain
Copy/paste channel settings	Multi-line	Single line	Single line	Multi-line
Gadgets				
Chart types	Strip, histogram, bar	Strip, histogram, bar	Strip, histogram, bar	Strip, histogram, bar, XY
Display: table, reading, alarms, text box	Yes	Table	Table	Yes
Switch & control: switches, digital read/ write, analog slider	No	No	No	Yes
Background image	Yes	No	No	Yes
Strip chart functionality				
Max number of charts	2	4	4	10
Number of channels per chart	8	All used	All used	40
Number of Y axes on chart	1	1	1	2
Y-axis values shown on chart	No	Yes (can be turned off)	Yes (can be turned off)	Yes (can be turned off)
Markers	Yes	Yes	Yes	Yes
X-axis scaling follows 1/2/5 convention	No	No	No	Yes
Autoscale	X,Y, both	Y-axis only	Y-axis only	X, Y, both
Alarm functionality				
Color can be changed	No	Yes	Yes	Yes
Actions: stop scan, console beep	Yes	Yes	Yes	Yes
Actions: output bit pattern, open or close a switch channel	Yes	Yes	Yes	Yes
Actions: send email (or SMS text) or execute batch file	No	No	Yes	Yes
Export				
Supported datalog file formats	CSV, Microsoft Excel, MATLAB	CSV	CSV	CSV, Microsoft Excel, MATLAB
Auto-export data log file	No	Yes	Yes	Yes
Copy to Clipboard: gadget image or data	No	No	No	Yes
Automate datalogging decisions				
Built-in multi-scan list	No	No	Yes	No
BenchVue Test Flow (Multi-scan list & conditional logging)	No	No	No	Available late 2017
Additional features				
All modules fully supported	No	No	No	Yes
Upload data while scan continues to run	No	Yes	Yes	Yes
Data log using multiple instruments	Yes	Yes	Yes	Yes
Simulation mode	Yes	No	Yes	Yes
Hours of datalogging	8 (Unrestricted for Pro version)	Unrestricted	Unrestricted	Unrestricted
License	No license required (License required for Pro)	No license required	License required	License required; multiple configurations available
30-day free trial	N/A for DAQ 3.0 (Yes for Pro version)	N/A	Yes	Yes

Key differentiators

Conclusion

The next-generation software for DAQ users is the BenchVue Data Acquisition Control and Analysis app (BV0006B). Most users will be able to replace their older BenchLink Data Logger Pro software with BenchVue's DAQ app with little effort.

The BenchVue DAQ app provides a modern software experience with an intuitive user interface that shortens the learning curve giving you to access your DAQ measurements and data faster, reducing your test and development time.

Control, Automate and Simplify with BenchVue

Learn more about the BenchVue Data Acquisition Control and Analysis app at www.keysight.com/find/BenchVueDAQ

BenchVue connects to over 470 Keysight instruments and counting. To view the BenchVue supported instruments list visit: www.keysight.com/find//BenchVueInstruments

To learn more about BenchVue software and its other time-saving apps visit: www.keysight.com/find/BenchVue

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