

CONFIGURATION  
GUIDE

# BenchVue Software (BV0000A)

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Your Bench. Just Smarter.



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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 with just a few clicks.

Dedicated instrument apps allow you to quickly configure the most commonly used measurements and setups for each instrument family. Using the integrated Test Flow app you can rapidly build custom test sequences to automate and visualize test results without the need for instrument programming and significantly streamline your workflow.

Use BenchVue Apps to:

- Configure the most commonly used controls and measurements from instruments
- Visualize multiple measurements simultaneously
- Easily log and export data and screen images in just a few clicks for faster analysis
- Create automated test sequences fast with minimal instrument knowledge
- Access deeper instrument controls and solutions

Save time by:

- Analyzing results within BenchVue or with built-in data exports
- Learning software quickly with common look and feel apps
- Utilizing multiple instrument apps in one easy to use software platform

## BenchVue is Enabled on Over 500 Keysight Instruments

BenchVue software works with hundreds of Keysight digital multimeters, power supplies, function/arbitrary waveform generators, spectrum analyzers, data acquisition units, network analyzers, oscilloscopes, power meters, power sensors, electronic loads, universal counters, and more.

For full list of Keysight enabled instruments visit: [www.keysight.com/find/benchvueinstruments](http://www.keysight.com/find/benchvueinstruments)



BenchVue software allows you to control your instruments, easily build automated tests and drive measurements to actionable insights faster.

## BenchVue Software Supported Instruments

Each of the BenchVue apps support certain Keysight instrument models. BenchVue connects to over 470 instruments and continues to expand. These apps are updated regularly with additional models as shown below. For the most current supported instrument list, visit: [www.keysight.com/find/BenchVueInstruments](http://www.keysight.com/find/BenchVueInstruments)



Data acquisition units (2)	Data acquisition units (2)	Function generators (19)	Power supplies/ SMUs (146)	Spectrum/signal analyzers (30)	Oscilloscopes (174)
34970A	U2021XA	332x0A (3)	B2900 Series (4)	X-Series	1000-X Series (4)
34972A	U2022XA	33500 Series (10)	B2961A/62A	N9040B UXA	2000-X Series (12)
<b>Digital multimeters (10)</b>	U2041XA	33600 Series (4)	E3600 Series (14)	N9030A/B PXA	3000-X Series (18)
344xxA	U2042XA	81150A	E36100 Series (5)	N9020A/B MXA	3000T Series (20)
<b>Network analyzers (29)</b>	U2043XA	81160A	E36300 Series (4)	N9010A/B EXA	4000-X Series (16)
PNA N522xA/B (10)	U2044XA	<b>Power analyzers (2)</b>	N5700 Series (24)	N9000A/B CXA	5000 (5)
PNA-L N523A/B/C (11)	U2049XA LAN	PA2201A	N6700A/B/C	M9290A CXA	6000A Series (16)
PNA-X N524xA/B (12)	U2000 Series (9)	PA2203A	N6701A/C	HSA N934xC (3)	6000L Series (3)
PXI VNAs	U848x Series (4)	<b>Signal generators (14)</b>	N6702A/C	ESA E440xB (4)	6000-X Series (4)
M937xA (6)	N191xA (4)	E4428C	N6705A/B/C	PSA E444x (6)	7000 Series (28)
PXIe multiport VNA	N8262A	E4438C	N6785A	BSA N932xB/C (2)	9000 Series (8)
M9485A	<b>Current Analyzer (2)</b>	E8257D	N6786A	<b>Electronic loads (4)</b>	90000 (6)
<b>USB modular instruments</b>	CX3322A	E8267D	N6900 Series (12)	N3300A	90000 Q-Series (5)
U2300 Series	CX3324A	E8663D	N7900 Series (12)	N3301A	90000 X-Series (12)
U2500 Series		EXG X-Series	N8700 Series (21)	6060B	S Series (14)
U2600 Series		N517xB (3)	N8900 Series (36)	6063B	90000 DSA Series (16)
U2700 Series		MXG X-Series	RP7900 Series (17)	<b>FieldFox analyzers (22)</b>	V Series (18)
		N518xB (3)		N9912A	Z Series (10)
		N518xA (3)		N9913A-N9918A (6)	<b>Counters (3)</b>
				N9923A	53210A
				N9925A-N9928A (4)	53220A
				N9935A-N9938A (4)	53230A
				N9950A-N9952A (3)	
				N9960A-N9962A (3)	

## Application Comparisons

BenchVue software supports many Keysight instrument types and hundreds of models all from one platform. Choose from a variety of powerful apps below to accelerate your workflow.

Control, Automation and Analysis Apps	App Type	Features	Test Flow Automation Capabilities	Mobile Support
BenchVue Complete Control Collection (BV9001B)	Control, automation, analysis	<ul style="list-style-type: none"> <li>– Access to all BenchVue control, automation, or analysis apps</li> <li>– Exclusive access to Spectrum Analyzer, Network Analyzer, Signal Generator apps</li> </ul>	<ul style="list-style-type: none"> <li>– Controls integrated in app</li> <li>– Using Command Expert instrument controls</li> </ul>	Depends on app used
Digital Multimeter App (BV0001B)	Control & automation	<ul style="list-style-type: none"> <li>– Instrument control and measurements</li> <li>– Data logging with graphing</li> <li>– Digitizer functions</li> <li>– Limit testing and alerts</li> </ul>	<ul style="list-style-type: none"> <li>– Controls integrated in app</li> <li>– Using Command Expert instrument controls</li> </ul>	Yes
Function Generator App (BV0002B)	Control & automation	<ul style="list-style-type: none"> <li>– Instrument control and measurements</li> <li>– Waveform editing capabilities</li> </ul>	<ul style="list-style-type: none"> <li>– Controls integrated in app</li> <li>– Using Command Expert instrument controls</li> </ul>	Yes
Power Supply App (BV0003B)	Control & automation	<ul style="list-style-type: none"> <li>– Instrument control and measurements</li> <li>– Log output V&amp;I data with graphing</li> <li>– Status alerts</li> </ul>	<ul style="list-style-type: none"> <li>– Controls integrated in app</li> <li>– Using Command Expert instrument controls</li> </ul>	Yes
Oscilloscope App (BV0004B)	Control & automation	<ul style="list-style-type: none"> <li>– Instrument control and measurements</li> <li>– Get screen images and trace data</li> <li>– Log measurements with graphing</li> <li>– Limit testing and alerts</li> </ul>	<ul style="list-style-type: none"> <li>– Controls integrated in app</li> <li>– Using Command Expert instrument controls</li> </ul>	Yes
Data Acquisition App (BV0006B)	Control & analysis	<ul style="list-style-type: none"> <li>– Instrument control and measurements</li> <li>– Data graphing tools</li> <li>– In depth analysis</li> <li>– Log measurements</li> </ul>	<ul style="list-style-type: none"> <li>– Using Command Expert instrument controls</li> </ul>	No
Power Meter App (BV0007B)	Control & analysis	<ul style="list-style-type: none"> <li>– Instrument control and measurements</li> <li>– Data visualization tools</li> <li>– Multi-unit control</li> </ul>	<ul style="list-style-type: none"> <li>– Controls integrated in app</li> <li>– Using Command Expert instrument controls</li> </ul>	No
FieldFox App (BV0010B)	Control & automation	<ul style="list-style-type: none"> <li>– Instrument control and measurements</li> <li>– Support for SA and NA personalities</li> <li>– Log trace data and screen images</li> </ul>	<ul style="list-style-type: none"> <li>– Controls integrated in app</li> <li>– Using Command Expert instrument controls</li> </ul>	No
Universal Counter App (BV0011B)	Control & automation	<ul style="list-style-type: none"> <li>– Instrument control and measurements</li> <li>– Log frequency or time interval data</li> </ul>	<ul style="list-style-type: none"> <li>– Controls integrated in app</li> <li>– Using Command Expert instrument controls</li> </ul>	No
Electronic Load App (BV0012B)	Control & automation	<ul style="list-style-type: none"> <li>– Instrument control and measurements</li> <li>– Log power, V, I</li> <li>– Parallel channel config</li> </ul>	<ul style="list-style-type: none"> <li>– Controls integrated in app</li> <li>– Using Command Expert instrument controls</li> </ul>	No
Current Analyzer App (BV0013B)	Control and Automation	<ul style="list-style-type: none"> <li>– Instrument control and measurements</li> <li>– Get screen images and trace data</li> <li>– Log measurements with graphing</li> </ul>	<ul style="list-style-type: none"> <li>– Controls integrated in app</li> <li>– Using Command Expert instrument controls</li> </ul>	No
Spectrum Analyzer App (BV9001B)	Control & automation	<ul style="list-style-type: none"> <li>– Instrument control and measurements</li> <li>– Log screen Images</li> <li>– Log trace data</li> </ul>	<ul style="list-style-type: none"> <li>– Controls integrated in app</li> <li>– Using Command Expert instrument controls</li> </ul>	Yes
Network Analyzer App (BV9001B)	Control & automation	<ul style="list-style-type: none"> <li>– Instrument control and measurements</li> <li>– Log screen Images</li> <li>– Log trace data</li> </ul>	<ul style="list-style-type: none"> <li>– Controls integrated in app</li> <li>– Using Command Expert instrument controls</li> </ul>	No
Signal Generator App (BV9001B)	Control & automation	<ul style="list-style-type: none"> <li>– Instrument control and measurements</li> <li>– Arbitrary waveform setting</li> </ul>	<ul style="list-style-type: none"> <li>– Controls integrated in app</li> <li>– Using Command Expert instrument controls</li> </ul>	No
Power Analyzer App (N/A)	Control & analysis	<ul style="list-style-type: none"> <li>– Instrument control and measurements</li> <li>– Log measurements</li> <li>– Screen captures</li> </ul>	N/A	No
Solar Array Simulator Control App (DG8901A)	Technology specific	<ul style="list-style-type: none"> <li>– Simple solar array simulator controls</li> <li>– View I-V, power curves</li> <li>– Create PV curves (in licensed version only)</li> </ul>	N/A	No

Control, Automation and Analysis Apps	App Type	Features	Test Flow Automation Capabilities	Mobile Support
USB Modular Digital Multimeter App (BV0021A)	Control and analysis	<ul style="list-style-type: none"> <li>- Instrument control and measurement</li> <li>- Data logging with graphing</li> <li>- Limit testing and alerts</li> </ul>	N/A	No
USB Modular Function Generator App (BV0022A)	Control and analysis	<ul style="list-style-type: none"> <li>- Instrument control and measurement</li> <li>- Waveform editing capabilities</li> </ul>	N/A	No
USB Modular SMU App (BV0023A)	Control and analysis	<ul style="list-style-type: none"> <li>- Instrument control and measurement</li> <li>- Configure SMU channels in serial or parallel</li> <li>- Data logging with graphing</li> <li>- Limit testing and alerts</li> </ul>	N/A	No
USB Modular Oscilloscope App (BV0024A)	Control and analysis	<ul style="list-style-type: none"> <li>- Instrument control and measurement</li> <li>- Get screen image and trace data</li> <li>- Data logging with graphing</li> <li>- Limit testing and alerts</li> </ul>	N/A	No
USB Modular DAQ App (BV0025A)	Control and analysis	<ul style="list-style-type: none"> <li>- Instrument control and measurement</li> <li>- Data logging with graphing</li> <li>- Limit testing and alerts</li> </ul>	N/A	No

## Selecting the Right BenchVue License

Keysight offers a variety of licensing options to fit your needs. Choose your type. Choose your term. Keep control of your budget.

With every BenchVue app or bundle you may choose different licensing terms. The most common option is the Perpetual Transportable license.

	License Types	License Terms	
		Perpetual	Time Based 1 year
BV0001B	Fixed Node Locked	R-D5B-001-A	R-D4B-001-L
BV0002B		R-D6B-001-L	
BV0003B	Transportable	R-D5B-004-D <sup>1</sup>	R-D4B-004-L
BV0004B		R-D6B-004-L <sup>1</sup>	
BV0006B	USB portable <sup>2</sup>	R-D5B-005-E	R-D4B-005-L
BV0007B		R-D6B-005-L	
BV0010B	Network Floating	R-D5B-002-B	R-D4B-002-L
BV0011B		R-D6B-002-L	
BV0012B			
BV0013B			
BV9001B			

	License Types	License Terms	
		Perpetual	Time Based 1 year
BV0021A	Fixed Node Locked	R-X5F-001-A	R-D4B-001-L
BV0022A		R-X6F-001-L	
BV0023A	Transportable	R-X5F-004-D <sup>1</sup>	R-D4B-004-L
BV0024A		R-X6F-004-L <sup>1</sup>	
BV0025A	USB portable <sup>2</sup>	R-X5F-005-E	R-D4B-005-L
		R-X6F-005-L	
	Network Floating	R-X5F-002-B	R-D4B-002-L
		R-X6F-002-L	

1. Most popular license

2. Requires a separate USB Dongle - E8900-D10

## Terms

**Perpetual** – A permanent license which can maintained with an update subscription service for access to new enhancements. This is the most cost effective in the long term.

**Time Based** – A time-limited license which will expire after 1 year. This is suitable for short-term projects or limited budget.

## Types

**Fixed Node Locked**– Software license for 1 PC

**Transportable** – Ability to transfer license from PC to another PC using online tools

**USB Transportable** – Ability to transfer license from PC to another PC using USB dongle

**Network Floating** – Network based license multiple users access to SW license from server

Each BenchVue app is available with all 8 license types. Select which license type that is right for you.



## Ordering your license

Your Keysight representative or favorite distributor may help you with the ordering process. These are the typical steps when selecting a Keysight software product.

**Step 1:** Choose your apps/bundle.

“I want to use BenchVue for all my bench instruments, I want the BenchVue Complete Control Collection”  
– Select **BV9001B**

**Step 2:** Choose your license terms and type.

“I want an app that can be used in my lab or my desk (2 computers) and we’ll need the app indefinitely”  
– Select **Transportable perpetual**  
– Part numbers: **BV9001B RD5B-004-E\RD6B-004-L**

**Step 3:** Choose a paper or electronic delivery of your license entitlement certificates.

**Step 4:** Place your order.

## BenchVue Software

### Control. Automate. Simplify.

Start accelerating your workflow and download a free 30-day trial version today:

[www.keysight.com/find/benchvue](http://www.keysight.com/find/benchvue)

Learn more at: [www.keysight.com](http://www.keysight.com)

For more information on Keysight Technologies’ products, applications or services, please contact your local Keysight office. The complete list is available at:

[www.keysight.com/find/contactus](http://www.keysight.com/find/contactus)

