

# BV9210B/BV9211B

## PathWave BenchVue

### Advanced Battery Test and Emulation Software

#### 2022 Version

Release Version:	2022 Version
Released Date:	Feb 28 <sup>th</sup> 2022
Operating System:	Windows 10 (64-bit, version 1809 or later)
System Requirements:	Processor: Intel Core i5 (or equivalent) RAM: 8GB Storage Drive: 900MB free space Display Resolution: 1920x1080 recommended
Hardware:	<a href="http://www.keysight.com/find/BenchVueInstruments">www.keysight.com/find/BenchVueInstruments</a>
Release Type:	Major Update Release
File Name:	BenchVue-Advanced-Battery-Test-and-Emulation-2022-Setup

#### Benefits

- Support RP7984A including primary/secondary mode.
- Defects fixed for stability, usability and performance enhancements.
- Support DAQ models (34970A, 34972A, DAQ970A, DAQ973A) for ambient temperature and stop charge condition (temperature) measurements.
- API enhancement

#### New Features

##### Cycling:

- Added cut-off condition for battery charging of NiMH or NiCD batteries with time, Negative Delta Voltage and temperature

#### Discharge/Charge:

- Added cut-off condition for battery charging of NiMH or NiCD batteries with time, Negative Delta Voltage and temperature

#### Profiler:

- Added cut-off condition for battery charging of NiMH or NiCD batteries with time, Negative Delta Voltage and temperature
- Measurement Ambient temperature from DAQ instrument
- Ambient temperature protection for charge and discharge operation

#### Emulate:

- Battery pack emulation with enable number of series and parallel
- Battery pack preview

#### Enhancements

- Detect and alert user when the storage location is low in capacity.
- User able to view temperature measured range when load profile in Emulate mode

#### Resolved Issues

- Enhanced the decimal handling for Windows running in EU format

## Previous Release

### 2021.1 Version Information

Released Date:	31 <sup>st</sup> August 2021
<b>Requirements categories</b>	
PC operating system & hardware:	Windows 10: 32-bit and 64-bit (Professional, Enterprise, Education, Home versions) Processor: 1 GHz or faster (2 GHz or greater recommended) RAM: 1 GB (32-bit) or 2 GB (64-bit) (3 GB or greater recommended) Interfaces: USB, GPIB, LAN, RS-232 Display resolution: 1280x1024 minimum recommended for single instrument view (higher resolution recommended for multiple instrument view)
Current List of BenchVue Enabled Keysight Instruments:	<a href="http://www.keysight.com/find/benchvueinstruments">www.keysight.com/find/benchvueinstruments</a>
File Name:	BenchVue-Advanced-Battery-Test-and-Emulation-2021-1-Setup.exe

### Notable changes

#### Overview:

- Support RP793X-6X in primary/secondary mode. <sup>[1]</sup>
- Support RP7982A and RP7983A including primary/secondary mode.
- Export combined channel data.
- Bugs fixed.

#### Features added:

##### 1. Cycling:

- Resume cyclers by load profile.
- Constant power, constant resistance and dynamic current discharge.
- Capacity loss as cut-off condition.
- Couple file save rate with instrument integration period.

##### 2. Discharge/Charge:

- Constant power, constant resistance and dynamic current discharge.
- Couple file save rate with instrument integration period.

##### 3. Profiler:

- Ambient temperature settings to generate a battery profile.

- Constant power and constant resistance discharge. Dynamic current discharge is already supported.

4.Emulate:

- Emulate battery characteristics at various temperature.
- Instrument output state configuration before/after emulation.

[1] Firmware version must be B.05.03.862 or later

## Initial Release

## 2021 Version Information

Released Date:	31 <sup>st</sup> March 2021
<b>Requirements categories</b>	
PC operating system & hardware:	Windows 10: 32-bit and 64-bit (Professional, Enterprise, Education, Home versions) Processor: 1 GHz or faster (2 GHz or greater recommended) RAM: 1 GB (32-bit) or 2 GB (64-bit) (3 GB or greater recommended) Interfaces: USB, GPIB, LAN, RS-232 Display resolution: 1280x1024 minimum recommended for single instrument view (higher resolution recommended for multiple instrument view)
Current List of BenchVue Enabled Keysight Instruments:	<a href="http://www.keysight.com/find/benchvueinstruments">www.keysight.com/find/benchvueinstruments</a>
File Name:	BenchVueBESetup.exe

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