

# B2900B SMUs Can Perform Both Basic IV Sourcing, Complex Characterization and Analysis Tasks

The B2900B series SMUs have multiple software control options, allowing you to choose the solution that best fits your particular application

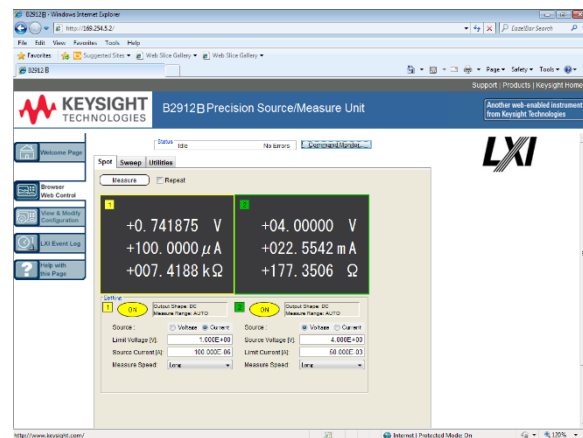
## PathWave BenchVue

Source constant voltage or current and control other Keysight instruments



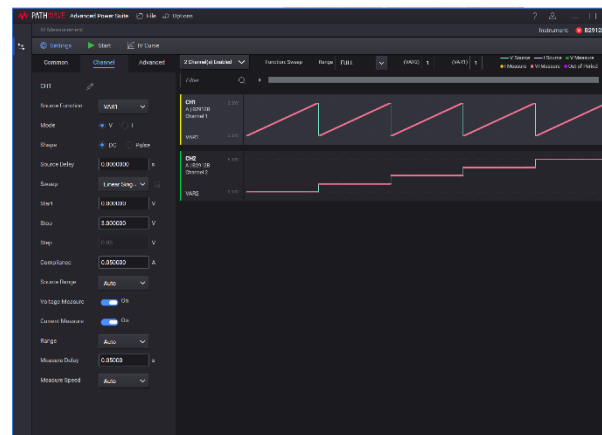
## Graphical web interface

Use your web browser to make basic measurements



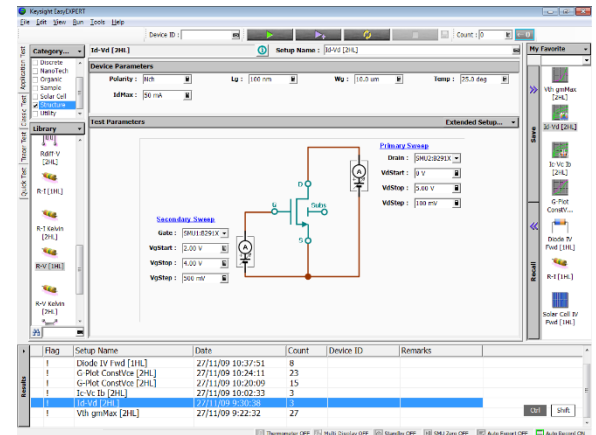
## PathWave IV Curve Software

Easy-to-use GUI software for IV measurement without programming



## EasyEXPERT group+

Powerful software for detailed characterization and analysis of devices, circuits and materials



## Software options

The table summarizes the features and functions of software.

		PathWave BenchVue	Graphical Web Interface	PathWave IV Curve Software	EasyEXPERT group+
Supported Model	B2900 series	✓	✓	✓	✓
	B2960 series	✓	✓	✓	
	B2980 series		✓		
Supported Interface	GPIO	✓		✓	✓
	USB	✓		✓	
	LAN	✓	✓	✓	
Source Mode	Constant voltage	✓	✓	✓	✓
	Constant current	✓	✓	✓	✓
	Sweep output	✓	✓	✓	✓
Functions	Graph	✓		✓	✓
	Math			✓	✓
	Analysis				✓
	Database				✓
	Export screen image	✓		✓	✓
	Export data	✓		✓	✓
	Multiple unit control	✓		✓	✓
	Application test setup	✓			✓

## Key features of the B2900 precision instrument family

### B2900 precision source/measure unit

- Display I-V curves and other types of graphs on the front panel
- Best-in-class 6.5-digit sourcing and measurement resolution
- Wide application coverage from 100 nV / 10 fA to 210 V/3 A DC and 10.5 A pulsed

### B2960 series 6.5 digit low noise power source

- Precision current and voltage source with ultra-low noise 10  $\mu$ Vrms
- 6.5 Digit resolution (100 nV/10 fA)
- Innovative and precision ARB capability; six built-in waveforms with speeds up to 10 kHz

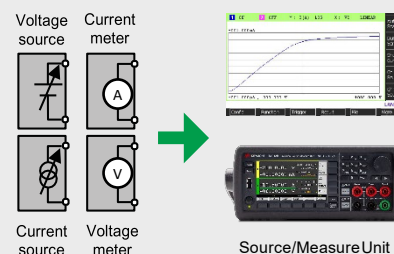
### B2980 series femto/picoammeter & electrometer

- World's-best current measurement resolution of 0.01 fA ( $0.01 \times 10^{-15}$  A)
- Resistance measurements up to 10 P $\Omega$  ( $10 \times 10^{15}$   $\Omega$ )
- Available in battery-powered versions for low-level measurements in the presence of AC power line noise

## Keysight B2900 Precision Source / Measure Unit (SMU)

The SMU combines the capabilities of a current source, a voltage source, a current meter and a voltage meter along with the capability to switch easily between these various functions into a single instrument. Its innovative graphical user interfaces improve usability and productivity of bench-top tests, debug and characterizations dramatically.

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



Keysight enables innovators to push the boundaries of engineering by quickly solving design, emulation, and test challenges to create the best product experiences. Start your innovation journey at [www.keysight.com](http://www.keysight.com).

This information is subject to change without notice. © Keysight Technologies, 2020 – 2023,  
Published in USA, April 12, 2023, 3120-1558.EN