

Agilent BenchVue Software (34840B)

Data capture simplified. Click, capture, done.

Data Sheet





Use BenchVue software to:

- Visualize multiple measurements simultaneously
- · Easily capture data, screen shots and system state
- · Recall a past bench state to replicate results

Save time with:

- The ability to export measurement data to Excel, Word and MATLAB in three clicks
- Fast access to manuals, drivers, firmware, FAQs, and videos

From anywhere:

· Monitor and control your bench from a mobile device



Agilent Technologies

View and capture multiple measurements from a single screen

Agilent BenchVue software for the PC accelerates your testing by providing intuitive, multiple instrument measurement visibility and data capture with no programming necessary. You can derive answers faster than ever by easily viewing, capturing and exporting measurement data and screen shots. The integrated library feature includes access to manuals, FAQs, videos and more—enabling you to expand your measurement knowledge and reduce test setup time. Mobile companion apps let you monitor and respond to long-running tests from anywhere.

With BenchVue, you get more from your Agilent bench instruments. BenchVue offers data logging and strip charts for your DMMs and power supplies, screen capture with annotation and trace data with preview charts for your oscilloscopes and spectrum analyzers, and waveform select and output control for your function generators. You can even control and push data across instruments with the ability to drag and drop waveforms between your oscilloscope and function generator.

Measurement View

Accelerate test understanding by visualizing multiple instrument measurements simultaneously.



Data Capture

Streamline documentation of results by capturing data, screen shots and system state in a few clicks. Easily export data to popular tools like Word, Excel and MATLAB.

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Integrated Library

Expand measurement knowledge with quick access to manuals, firmware, FAQs, and videos.



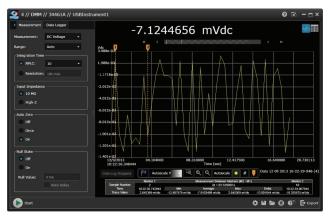
BenchVue Instrument Capabilities

BenchVue provides a wide array of capabilities. These capabilities will automatically vary based on the functionality of the instrument types and models connected to your PC running BenchVue software.

Digital Multimeters



Control your Agilent digital multimeter from BenchVue, using it to visualize measurements, record them over time and annotate captured data.



Supported functionality	
Measurement configuration	 Function and Range selection Integration Time (NPLC/Resolution) Input Impedance Auto Zero Null State
Visualization and annotation	 Chart, with full annotation, zoom in/out, change trace color, display sample count and markers Table
Data Logger	 Basic data log with strip chart and controls (1 hour duration) Start control (IMM/Time/Trig) Sample Interval Stop control (IMM/Time/Samples)
Export screen shots	ClipboardFile
Export data	 MATLAB Microsoft Excel Microsoft Word CSV
Save and recall instrument state	
BenchVue Mobile companion app available	
Supported models	
34401A 34405A 34410A 344	11A 34450A 34460A 34461A

Function Generators



Control your Agilent function generator from BenchVue, using it to set waveform properties and load custom arbitrary waveforms from files or via drag and drop from an oscilloscope.

or the second se	enerator // 33220A	// GPIB 7		0 6
Channel 1			Output On	Waveform: Sine Sweep: Linear Sweep Output: On
Select Waveform		~	-	$\land \land $
Amplitude: -	4.5 Vpp	Frequency: -		\sim
Offset: -	0 Vdc	Phase:		
Output				
Polarity:	Normal 👻	Load:	50 Ω High-Z	Mode: Modulation Sweep Burst All Off Modulation Sweep Burst
Trigger				Type: Linear - Sweep Time: 1 Sec
Source	Immediate •			Start Frequency: * 100 Hz Stop Frequency: * 1 kHz
Sync Output				300 H020 Ky. * 1872
Enable Sync Out				
Start				· 수비는 6º 단 expor

0	ionality											
Output control												
Waveform selec	tion		Noise PRBS (P	seudo-Ra	ndom Bina	ry Sequen	ce)					
Instrument conf	guration		Modulat Nramp/ Sweep: Sweep, Burst: N Output: Trigger:	ion: AM/F Noise/PR Type (Line Hold and, Cycle Mo Vode (No Source (IN	M/PM/FS BS/Arb), D ar/Log), S Return Tim de/Gated rmal/Gate /M/Ext/B	SK/BPSK/ DSSC (Dou tart Freque ne Mode, Sta d), Polarity us/Timer)	cy, and Ph SUM, Sou ble Sideba ency/Cent rt Phase, I (Normal/ , Delay I/Inverted)	rce (INT/E nd Suppre er Frequer Vumber of 'Inverted) ;	ssed Carri icy, Stop F Cycles, ar and Load (er), Depth requency/ nd Period Discrete/H	and Frequ Frequency Hi-Z)	ency Span,
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33612A 33621A 33622A

Oscilloscopes



Control your Agilent oscilloscope from BenchVue, using it to quickly capture and annotate screen shots and trace data.



Instrument control	• Run/Stop
	• Single
Capture and annotate screen	Get Current Screen
	Auto Refresh control
	 Color control (invert/black-white)
	Annotation (drawing/color/font)
	Store screen capture (PNG/JPEG/BMP)
	Option to Include Setup Text
Capture trace data	Get Current Traces
	Zoom control
	Display selection (Ch/Func/Mem/Digital)
	Set number of Requested Points
	Save Trace Data (CSV)
	Option to include Setup Text
Export screen shots	Clipboard
	• File
	• E-mail
	Microsoft Word
Export data	• HDF5
	• MATLAB
	Microsoft Excel
	Microsoft Word
	• CSV
Save and recall instrument state	
BenchVue Mobile companion app	
available	

Supported models			
MSO/DSO-X 2000 Series DSO/MSO 7000 Series	MSO/DSO-X 3000 Series DSO/MSO 9000 Series	MSO/DSO-X 4000 Series	MSO/DSO 6000 Series

Power Supplies

E3631A

E3646A

E3632A

E3647A

E3633A

E3648A

E3634A

E3649A

E3640A

N6700A/B



Control your Agilent power supply from BenchVue, using it to set parameters, visualize power output and record changing voltage and current over time.



Output control	
Instrument Configuration	 Set voltage output and Range Set current Limit, Limit Mode and Range Enable/Disable Over Voltage Protection w/Limit Enable/Disable Voltage and Current Log
Export screen shots	ClipboardFile
Export data	 MATLAB Microsoft Excel Microsoft Word CSV
Save and recall instrument state	
BenchVue Mobile companion app available	

E3641A

N6701A

E3642A

N6702A

E3643A

N6705A/B

E3644A

E3645A

Spectrum Analyzers



Control your Agilent spectrum analyzer from BenchVue, using it to quickly capture and annotate screen shots and trace data.

Screen Image	
Get Current Screen	Center Food 7, 199153 MHz
Auto Rafreah 10 Seconds Screen Image Options Helds Softkeys Themes 3 D Color Filt Monochrome Filt Monochrome	
Instrument Control Sweep Control Continuous Single	Control 072 With Spin 73 2010 Tell Power Mari 2012 officer 1 and the tell power Maria Spin 73 2010 Tell Power Maria 2012 officer 1 and the tell power Maria Spin 73 2010 Tell Power Maria 2012 officer 1 and the tell power Maria Spin 73 2010 Tell Power Maria 2012 officer 1 and the tell power Maria Spin 73 2010 Tell Power Maria 2012 officer 1 and the tell power Maria Spin 73 2010 Tell Power Maria 2012 officer 1 and the tell power Maria Spin 73 2010 Tell Power Maria 2012 officer 1 and tell power Maria Spin 73 2010 Tell Power Maria 2012 officer 1 and tell power Maria Spin 73 2010 Tell Power Maria 2012 officer 1 and tell power Maria Tell power Maria Tell Power Maria 2012 officer 1 and tell power Maria Tell power Maria Tell Power Maria 2012 officer 1 and tell power Maria Tell power Maria Tell Power Maria 2012 officer 1 and tell power Maria Tell power Maria Tell Power Maria 2012 officer 1 and tell power Maria Tell power Maria Tell Power Maria 2012 officer 1 and tell power Maria Tell power Maria

Instrument control	Sweep control: Continuous and Single
Capture and annotate screen	 Get Current Screen Auto Refresh control Annotation (drawing/color/font) Save screen capture (PNG/JPEG/BMP)
Capture trace data	 Get Current Traces Save trace data (CSV) Option to include Setup Text
Export screen shots	 Clipboard File E-mail Microsoft Word
Export trace data	 MATLAB Microsoft Excel Microsoft Word CSV

Supported mod	els					
PSA E444x	ESA E440x	PXA N9030A	MXA N9020A	CXA E9000A	EXA N9010A	

BenchVue Mobile

Mobile apps let you monitor and respond to long-running tests from anywhere. BenchVue supports mobile applications for multimeters, oscilloscopes and power supplies.



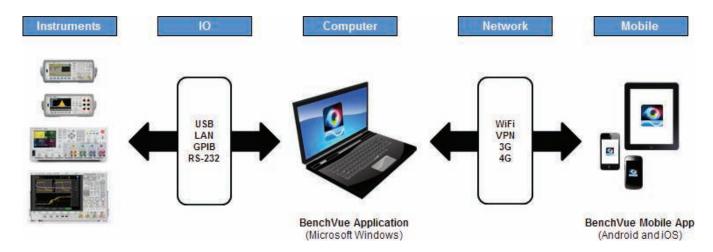
BenchVue Mobile is a mobile app that you can install on an Android or Apple iOS device to control BenchVue bench applications running on your Windows computer. BenchVue Mobile connects to your computer as a client, and requires that your mobile device and computer be connected to the same local network or intranet (behind the same corporate firewall). This network connection can be made via a WiFi connection inside your work location or externally through a VPN connection.

BenchVue Demonstration Mode

BenchVue includes a demonstration mode that requires no instruments to be connected, making product evaluation quick and easy. Simply download and click "Enable Demo Mode" under the global setting menu to begin exploring BenchVue functionality.

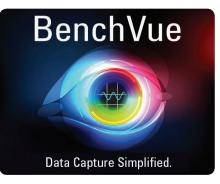
Settings Mobile Access
Enable Demo Mode
Show Welcome Screen
Report an Issue
About Agilent BenchVue

To assist in the evaluation of BenchVue with physical instruments, BenchVue includes an integrated user manual and getting started guide to make setup quick and easy.



System and installation requirements

PC operating system	
Windows 8 and 7	 Windows 8 32-bit and 64-bit (Core, Professional, Enterprise) Windows 7 SP1 and later 32-bit and 64-bit (Professional, Enterprise, Ultimate)
Computer hardware	 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)
Windows XP SP3 32-bit (Professional)	 Processor: 600 MHz or faster (1 GHz or greater recommended) RAM: 1 GB (2 GB or greater recommended)
Interfaces	USB, GPIB, LAN, RS-232
Display resolution	1024 x 768 minimum for single instrument view (higher resolutions are recommended for multiple instrument view)



With BenchVue, it's as simple as: click, capture, done.

BenchVue software for PC

Download cost free at: www.agilent.com/find/BenchVue

BenchVue software for mobile devices

Find BenchVue mobile for your respective device by visiting www.agilent.com/find/BenchVueMobile

Additional requirements

Software: BenchVue requires a VISA (Agilent or National Instruments) when used to connect to physical instruments. Agilent IO Libraries, which contains the necessary VISA, will be installed automatically when BenchVue is installed. IO Libraries information is available at: www.agilent.com/find/iosuite

Mobile devices

Apple iPhone, iPad, iPod Touch all models; iOS 6.0 and later. Android phone and tablets; Android 2.3.5 and later.



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For other unlisted countries:

www.agilent.com/find/contactus

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Product specifications and descriptions in this document subject to change without notice.

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