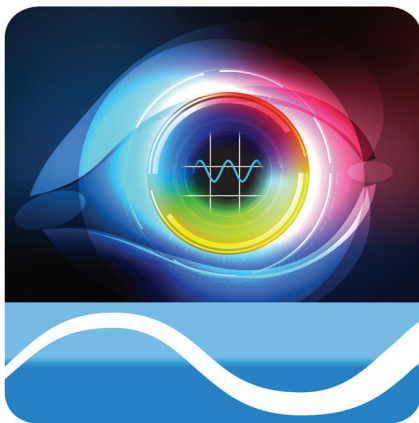


# Agilent BenchVue Software (34840B)

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



# 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.

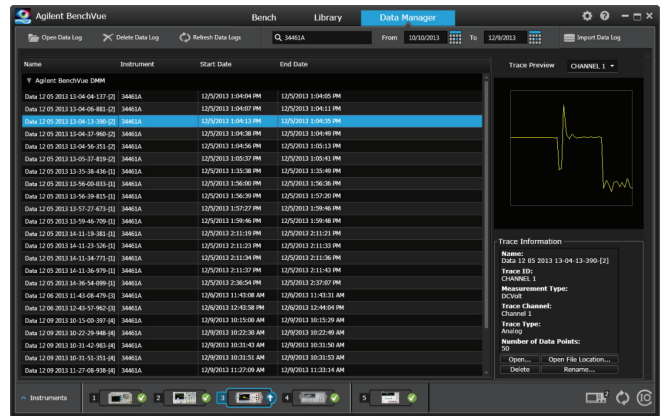
## Measurement View

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.



## Integrated Library

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



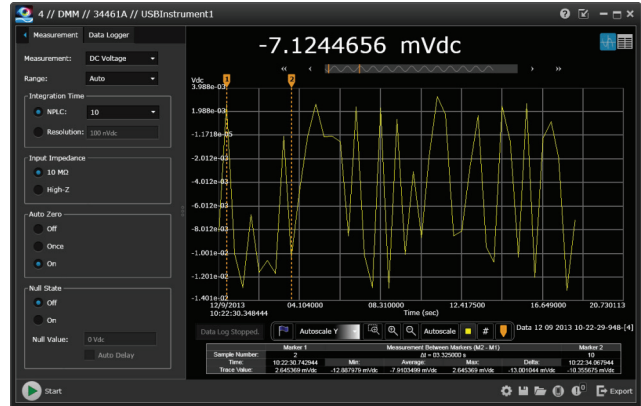
# BenchVue Instrument Capabilities

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



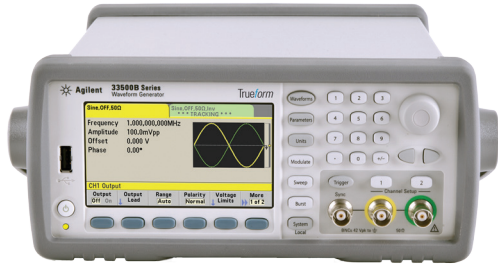
Control your Agilent digital multimeter from BenchVue, using it to visualize measurements, record them over time and annotate captured data.



Supported functionality	
Measurement configuration	<ul style="list-style-type: none"> <li>Function and Range selection</li> <li>Integration Time (NPLC/Resolution)</li> <li>Input Impedance</li> <li>Auto Zero</li> <li>Null State</li> </ul>
Visualization and annotation	<ul style="list-style-type: none"> <li>Chart, with full annotation, zoom in/out, change trace color, display sample count and markers</li> <li>Table</li> </ul>
Data Logger	<ul style="list-style-type: none"> <li>Basic data log with strip chart and controls (1 hour duration)</li> <li>Start control (IMM/Time/Trig)</li> <li>Sample Interval</li> <li>Stop control (IMM/Time/Samples)</li> </ul>
Export screen shots	<ul style="list-style-type: none"> <li>Clipboard</li> <li>File</li> </ul>
Export data	<ul style="list-style-type: none"> <li>MATLAB</li> <li>Microsoft Excel</li> <li>Microsoft Word</li> <li>CSV</li> </ul>
Save and recall instrument state	
BenchVue Mobile companion app available	

Supported models
34401A 34405A 34410A 34411A 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.

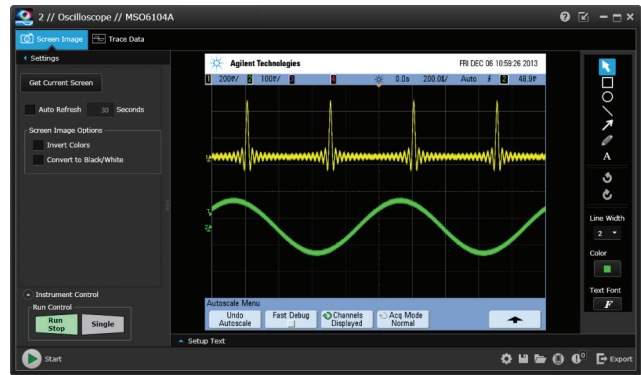
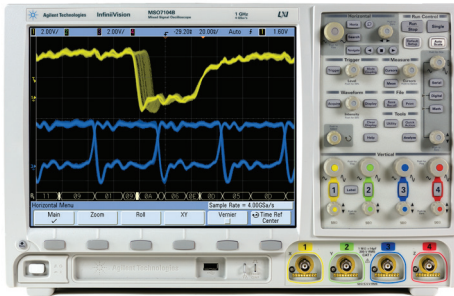
## Supported functionality

Output control	
Waveform selection	<ul style="list-style-type: none"> <li>• Sine</li> <li>• Square</li> <li>• Ramp</li> <li>• Pulse</li> <li>• Arb</li> <li>• Triangle</li> <li>• Noise</li> <li>• PRBS (Pseudo-Random Binary Sequence)</li> <li>• DC</li> </ul>
Instrument configuration	<ul style="list-style-type: none"> <li>• Waveform: Amplitude, Offset, Frequency, and Phase</li> <li>• Modulation: AM/FM/PM/FSK/BPSK/SUM, Source (INT/EXT/CH2), Shape (Sin/Squ/Tri/Ramp/Nramp/Noise/PRBS/Arb), DSSC (Double Sideband Suppressed Carrier), Depth and Frequency</li> <li>• Sweep: Type (Linear/Log), Start Frequency/Center Frequency, Stop Frequency/Frequency Span, Sweep, Hold and, Return Time</li> <li>• Burst: N Cycle Mode/Gated Mode, Start Phase, Number of Cycles, and Period</li> <li>• Output: Mode (Normal/Gated), Polarity (Normal/Inverted) and Load (Discrete/Hi-Z)</li> <li>• Trigger: Source (IMM/Ext/Bus/Timer), Delay</li> <li>• Sync: Enable (on/off), Polarity (Normal/Inverted), Source (Ch1/Ch2) and Mode (Normal/Carrier/Marker)</li> </ul>
Export instrument properties to Microsoft Word	
Save and recall instrument state	

## Supported models

33210A	33220A	33250A	33521A	33522A	33509B	33510B	33511B	33512B	33519B	33520B	33521B	33522B	33611A	33612A	33621A	33622A
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# Oscilloscopes



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

Supported functionality	
Instrument control	<ul style="list-style-type: none"> <li>Run/Stop</li> <li>Single</li> </ul>
Capture and annotate screen	<ul style="list-style-type: none"> <li>Get Current Screen</li> <li>Auto Refresh control</li> <li>Color control (invert/black-white)</li> <li>Annotation (drawing/color/font)</li> <li>Store screen capture (PNG/JPEG/BMP)</li> <li>Option to Include Setup Text</li> </ul>
Capture trace data	<ul style="list-style-type: none"> <li>Get Current Traces</li> <li>Zoom control</li> <li>Display selection (Ch/Func/Mem/Digital)</li> <li>Set number of Requested Points</li> <li>Save Trace Data (CSV)</li> <li>Option to include Setup Text</li> </ul>
Export screen shots	<ul style="list-style-type: none"> <li>Clipboard</li> <li>File</li> <li>E-mail</li> <li>Microsoft Word</li> </ul>
Export data	<ul style="list-style-type: none"> <li>HDF5</li> <li>MATLAB</li> <li>Microsoft Excel</li> <li>Microsoft Word</li> <li>CSV</li> </ul>
Save and recall instrument state	
BenchVue Mobile companion app available	

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

## Power Supplies



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

### Supported functionality

#### 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

- Clipboard
- File

##### Export data

- MATLAB
- Microsoft Excel
- Microsoft Word
- CSV

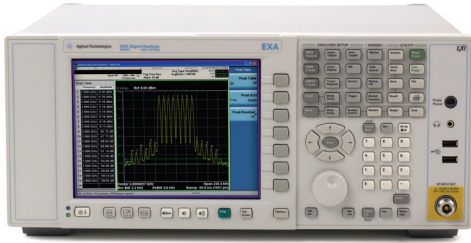
##### Save and recall instrument state

BenchVue Mobile companion app available

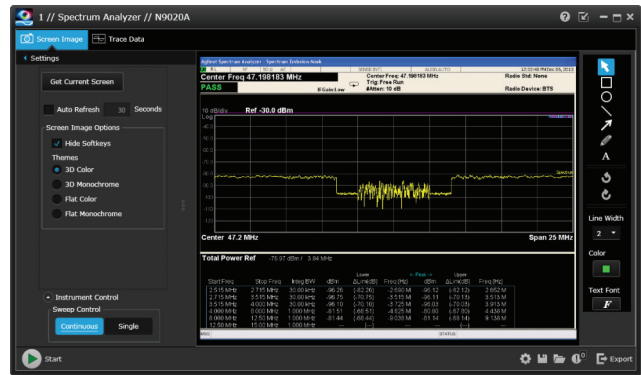
### Supported models

E3631A	E3632A	E3633A	E3634A	E3640A	E3641A	E3642A	E3643A	E3644A	E3645A
E3646A	E3647A	E3648A	E3649A	N6700A/B	N6701A	N6702A	N6705A/B		

# Spectrum Analyzers



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



Supported functionality					
Instrument control	Sweep control: Continuous and Single				
Capture and annotate screen	<ul style="list-style-type: none"> <li>Get Current Screen</li> <li>Auto Refresh control</li> <li>Annotation (drawing/color/font)</li> <li>Save screen capture (PNG/JPEG/BMP)</li> </ul>				
Capture trace data	<ul style="list-style-type: none"> <li>Get Current Traces</li> <li>Save trace data (CSV)</li> <li>Option to include Setup Text</li> </ul>				
Export screen shots	<ul style="list-style-type: none"> <li>Clipboard</li> <li>File</li> <li>E-mail</li> <li>Microsoft Word</li> </ul>				
Export trace data	<ul style="list-style-type: none"> <li>MATLAB</li> <li>Microsoft Excel</li> <li>Microsoft Word</li> <li>CSV</li> </ul>				
Save and recall instrument state					
Supported models					
PSA E444x	ESA E440x	PXA N9030A	MXA N9020A	CXA E9000A	EXA N9010A



## BenchVue Mobile

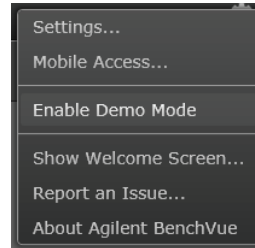
Mobile apps let you monitor and respond to long-running tests from anywhere. BenchVue supports mobile applications for multimeters, oscilloscopes and power supplies.



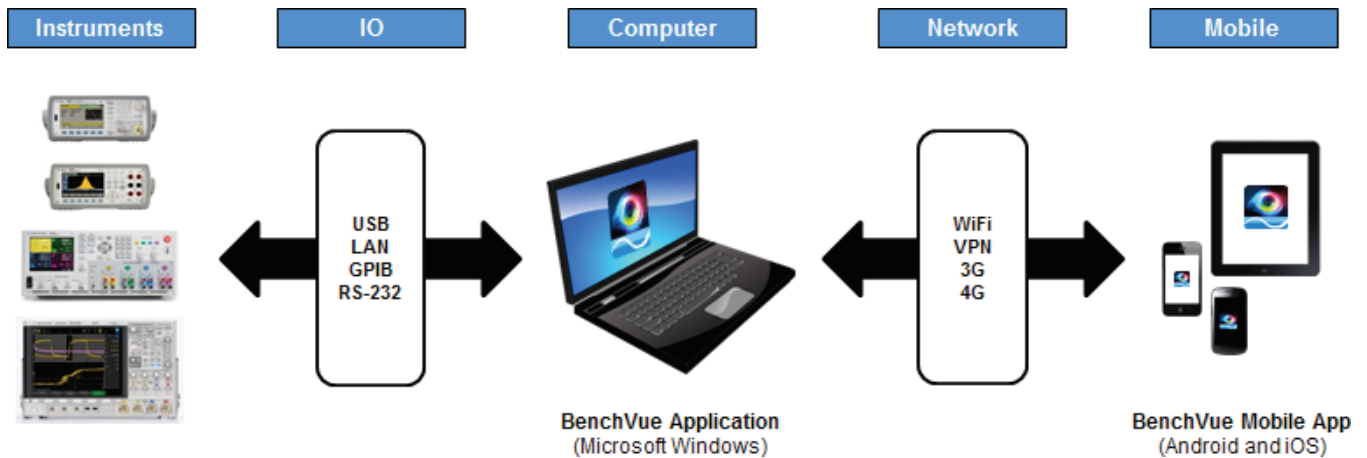
**BenchVue Mobile** is a mobile app that you can install on an Android or Apple iOS device to control BenchVue bench applications running on your Windows computer. BenchVue Mobile connects to your computer as a client, and requires that your mobile device and computer be connected to the same local network 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.



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	<ul style="list-style-type: none"><li>• Windows 8 32-bit and 64-bit (Core, Professional, Enterprise)</li><li>• Windows 7 SP1 and later 32-bit and 64-bit (Professional, Enterprise, Ultimate)</li></ul>
Computer hardware	<ul style="list-style-type: none"><li>• Processor: 1 GHz or faster (2 GHz or greater recommended)</li><li>• RAM: 1 GB (32-bit) or 2 GB (64-bit) (3 GB or greater recommended)</li></ul>
Windows XP SP3 32-bit (Professional)	<ul style="list-style-type: none"><li>• Processor: 600 MHz or faster (1 GHz or greater recommended)</li><li>• RAM: 1 GB (2 GB or greater recommended)</li></ul>
Interfaces	USB, GPIB, LAN, RS-232
Display resolution	1024 x 768 minimum for single instrument view (higher resolutions are recommended for multiple instrument view)

### 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](http://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.



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

### BenchVue software for PC

Download cost free at: [www.agilent.com/find/BenchVue](http://www.agilent.com/find/BenchVue)

### BenchVue software for mobile devices

Find BenchVue mobile for your respective device by visiting [www.agilent.com/find/BenchVueMobile](http://www.agilent.com/find/BenchVueMobile)

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