



APEX WAVES VB-8054 NI VirtualBench All In One Instrument User Guide

[Home](#) » [APEX WAVES](#) » APEX WAVES VB-8054 NI VirtualBench All In One Instrument User Guide 

Contents

- [1 APEX WAVES VB-8054 NI VirtualBench All In One Instrument](#)
- [2 Product Information](#)
- [3 Product Usage Instructions](#)
- [4 Content](#)
- [5 Assembly](#)
- [6 Using the iPad App](#)
- [7 Useful Links](#)
- [8 Documents / Resources](#)
 - [8.1 References](#)
- [9 Related Posts](#)



APEX WAVES VB-8054 NI VirtualBench All In One Instrument



Product Information

The VB-8054 is an all-in-one instrument from NI VirtualBench™ that provides a complete solution for prototyping, validation, and testing of electronic circuits. It includes an oscilloscope, function generator, digital multimeter, programmable DC power supply, and digital I/O in one compact device. It also comes with accessories such as oscilloscope probe kits, DMM probes, antenna, screwdriver, and logic analyzer flying leads.

Product Usage Instructions

1. Before installing the device, read all product documentation to ensure compliance with safety, EMC, and environmental regulations.
2. Connect the power cable and antenna to the VirtualBench.
3. Install and open the VirtualBench app on your iPad.
4. Follow the on-screen instructions to start using the VirtualBench.
5. Refer to the Getting Started guide at ni.com/virtualbench/getting-started for detailed information on how to use the VirtualBench.

Note:

For more information on product specifications, Windows software, iPad app downloads, and services and support, visit ni.com/virtualbench.

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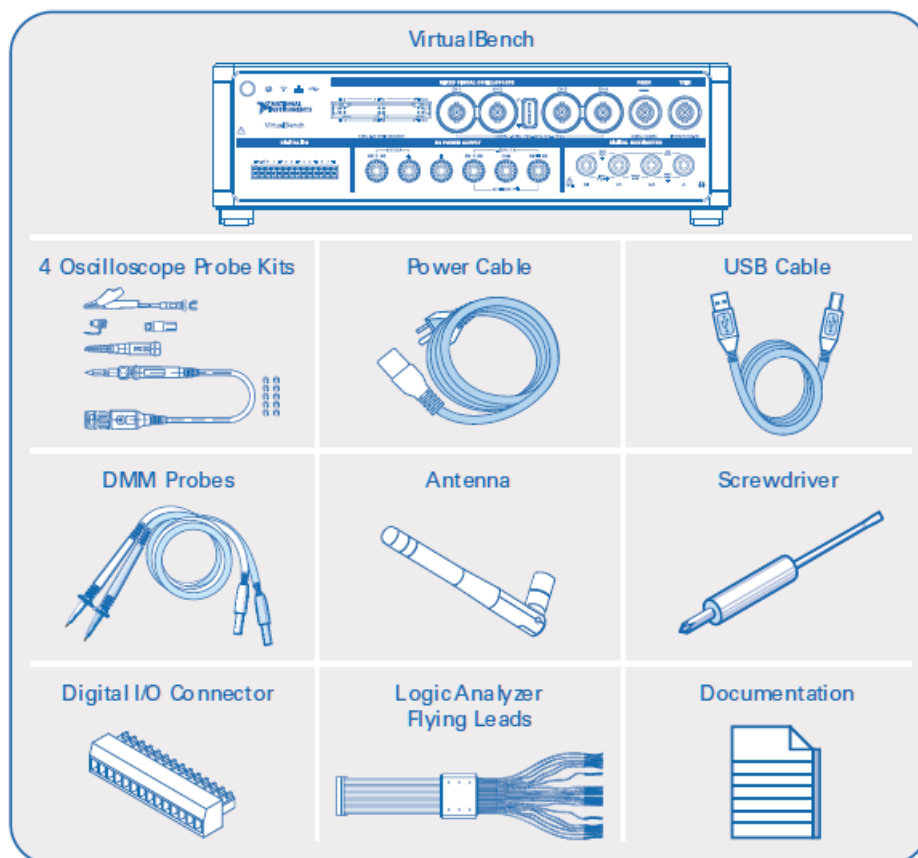
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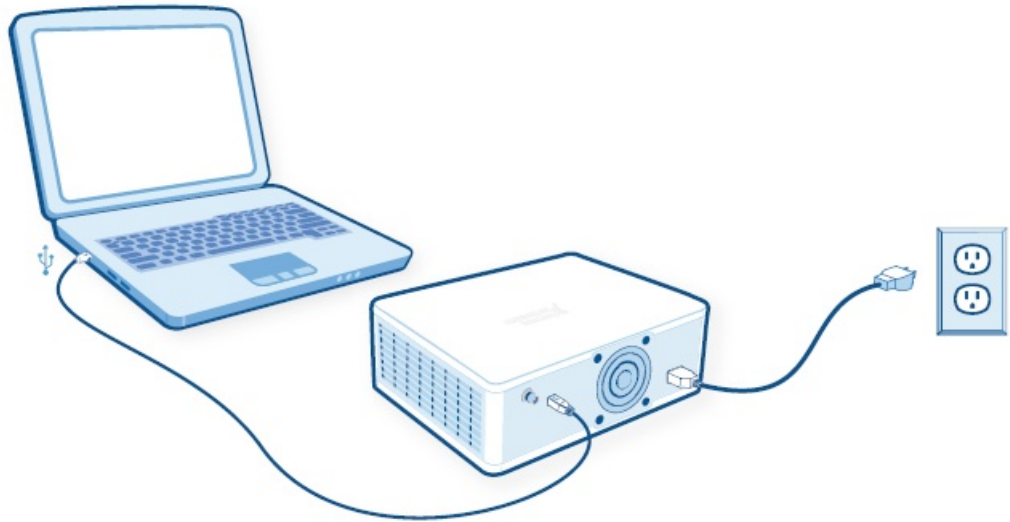
Caution Before installing your device, read all product documentation to ensure compliance with safation to ensure compliance with saf ety, EMC, and environmental regulations.

Content



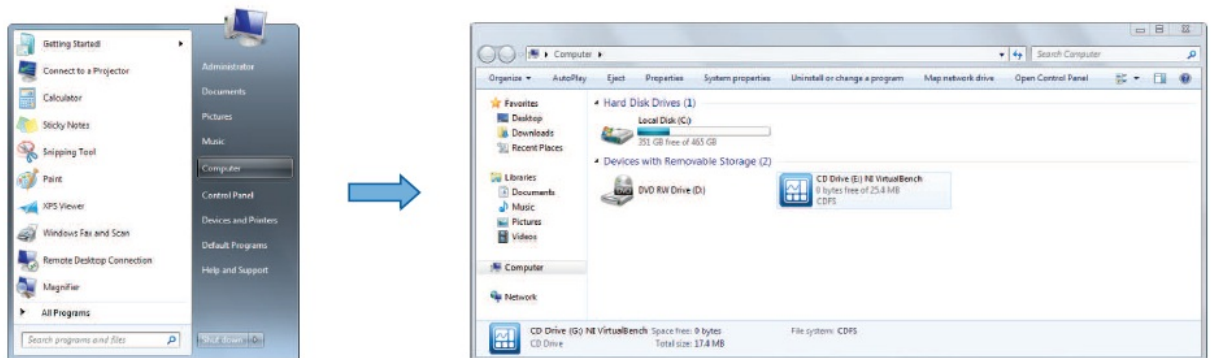
Assembly

1



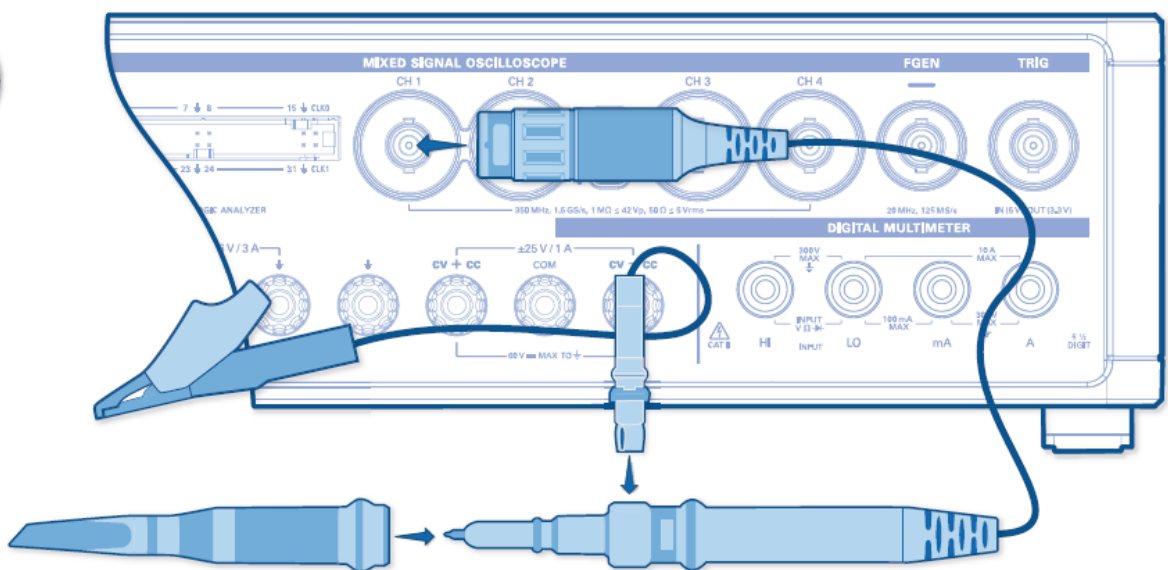
Connect the power cable. Then connect the Virtual Bench to a USB port on your computer.

2

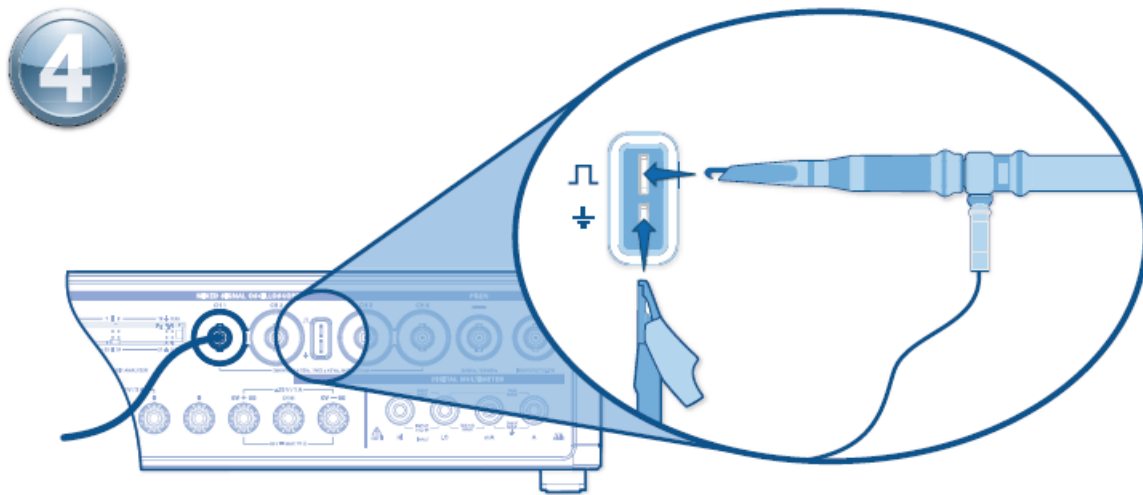


Navigate to Computer (or This PC) and double-click NI VirtualBench. Run [VirtualBenchLauncher.exe](#).
Note: If Windows AutoPlay is enabled, the VirtualBench application automatically runs.

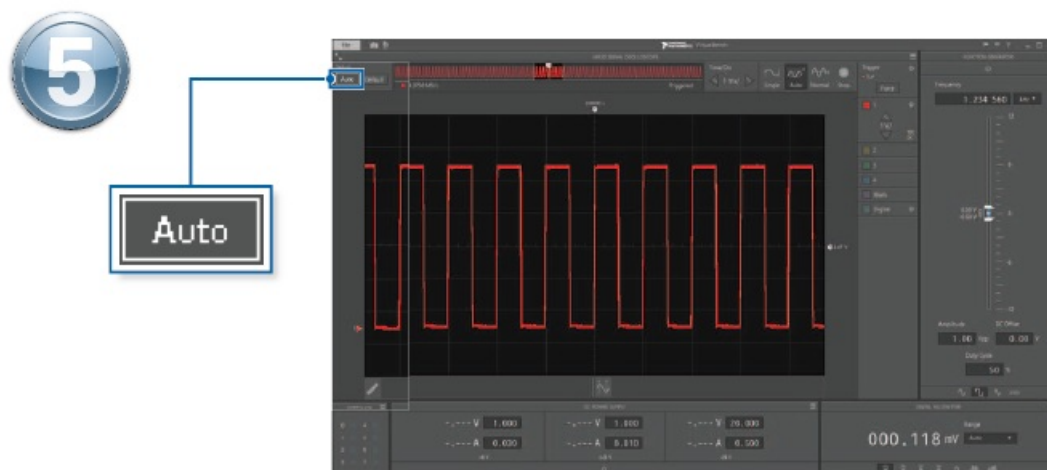
3



Attach the hook tip and ground lead to the oscilloscope probe. Then connect the probe to CH 1.



Connect the probe hook tip to the tab and the ground lead to the tab.



Click Auto to configure the oscilloscope for visualizing the 5 V, 1 kHz square wave generated the probe compensation tabs.

Using the iPad App

Connect the power cable and antenna to the VirtualBench. Install and open the app, then follow the on-screen instructions.

Useful Links

- Getting Started
ni.com/virtualbench/getting-started
- Help
ni.com/virtualbench/help
- Specifications
ni.com/virtualbench/datasheet
- Windows Software
ni.com/virtualbench/download-windows
- iPad App

ni.com/virtualbench/download-ipad

- Services and Support

ni.com/services

ni.com/virtualbench

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Documents / Resources

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References

- [NI Engineer Ambitiously - NI](#)
- [NI National Instruments Patents - NI](#)
- [NI Services - NI](#)
- [NI Trademarks and Logo Guidelines - NI](#)
- [NI What Is VirtualBench? - NI](#)
- [NI Search Results - NI](#)
- [NI VirtualBench on the App Store](#)
- ni.com/virtualbench/download-windows
- [NI Product Documentation - NI](#)
- [NI VB-8054 National Instruments VirtualBench All-in-One Instrument | Apex Waves](#)