



SOFTWARE INSTALLATION QUICK START GUIDE

Minimum OS Requirements

LabScribeADS: PC - Win11 – 8GB RAM

Digilent Waveforms Software Required

Please download the WaveForms Software from the Digilent website at:

<https://digilent.com/reference/software/waveforms/waveforms-3/start>

Download and install the Complete Installer for LabScribe ADS

<https://iworx.com/LabScribeADS/>

To download the LabScribeADS software, use the provided serial number that was included with your equipment.

**You need Administrative Access to your lab computers to install the software to the lab computers. Once installed you should see a LabScribeADS shortcut on your desktop. If you do not have Administrative Access, please contact your IT department.

NOTE: for IT departments doing the installation: All Users must be able to save to the local drive. They will need permissions to write to C:\Users\USERNAME\AppData\Local\LabScribeADS

HARDWARE SETUP QUICK START GUIDE

Version 1: Analog Discovery Studio Hardware Setup

Note: Waveforms software by Digilent must be downloaded or LabScribeADS will not recognize the device.

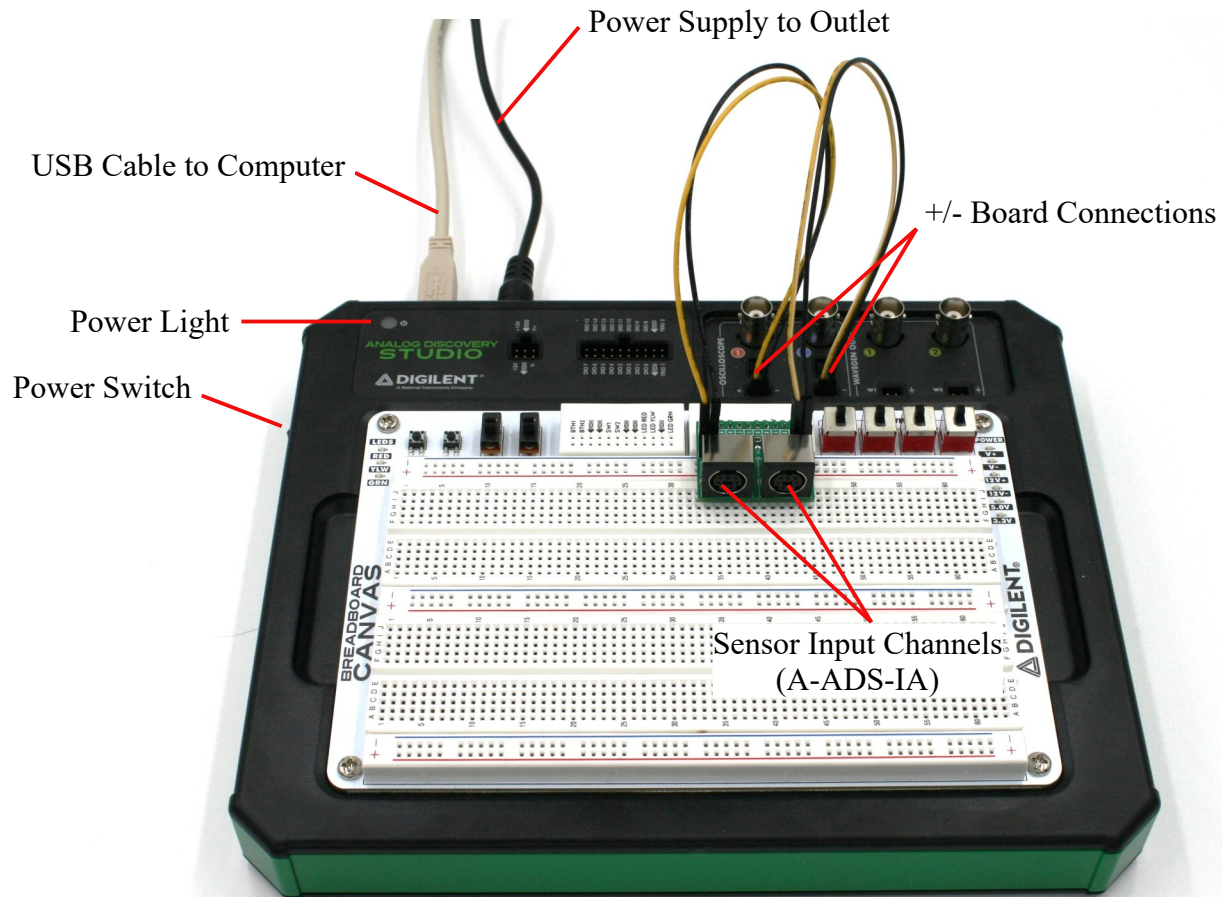


Figure 1: Full hardware setup with USB, power supply, and A-ADS-IA wired connections.

1. Locate the A-ADS-IA Adapter Board.
2. Insert the pins on the A-ADS-IA into the ADS board. Match the pin connections for V+ through +3.3 V. The sensor input channels should face towards the center of the board as shown below.
3. Plug the USB cable into the USB port on the side panel of the ADS board, and into the USB port of the computer.

4. Plug the power supply cable into the power port on the side panel of the ADS board, and into the wall outlet.
5. Wire the positive and negative connections for Channel 1 and Channel 2 as shown and described below.

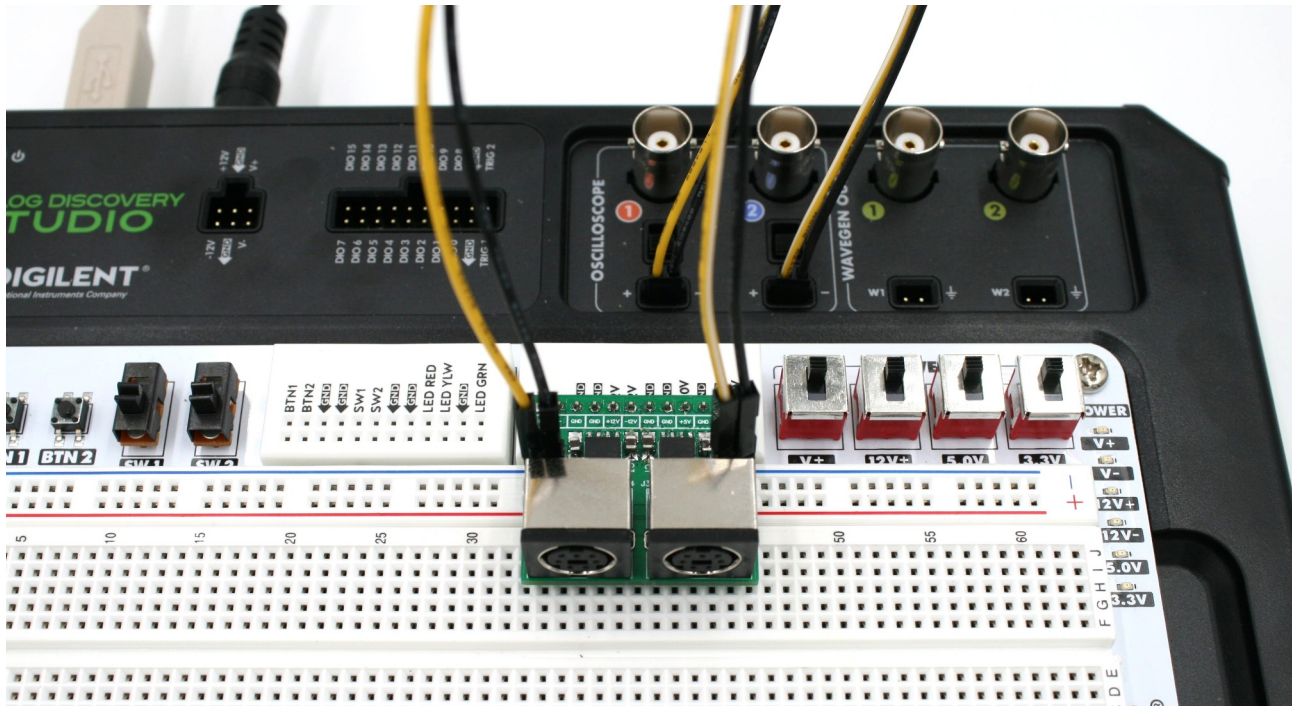


Figure 2: Wired connections for Channel 1 and 2 on the A-ADS-IA.

- Channel 1 on the oscilloscope is labeled with an orange ①.
 - The + connection will connect to the + CH1 connection on the A-ADS-IA chip.
 - The - connection will connect to the - CH1 connection on the A-ADS-IA chip.
- Channel 2 on the oscilloscope is labeled with a blue ②.
 - The + connection will connect to the + CH2 connection on the A-ADS-IA chip.
 - The - connection will connect to the - CH2 connection on the A-ADS-IA chip.
- Ensure both switches on the oscilloscope are flipped to the left position, closest to the +/- connections.

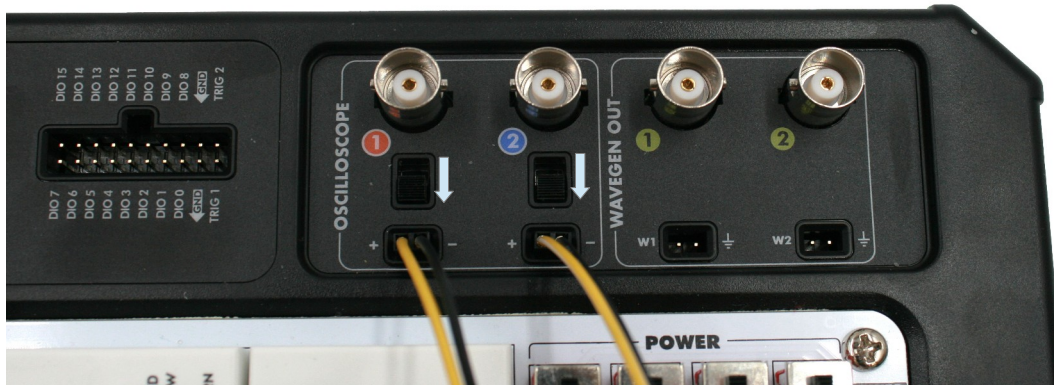


Figure 3: Oscilloscope switches in the left position.

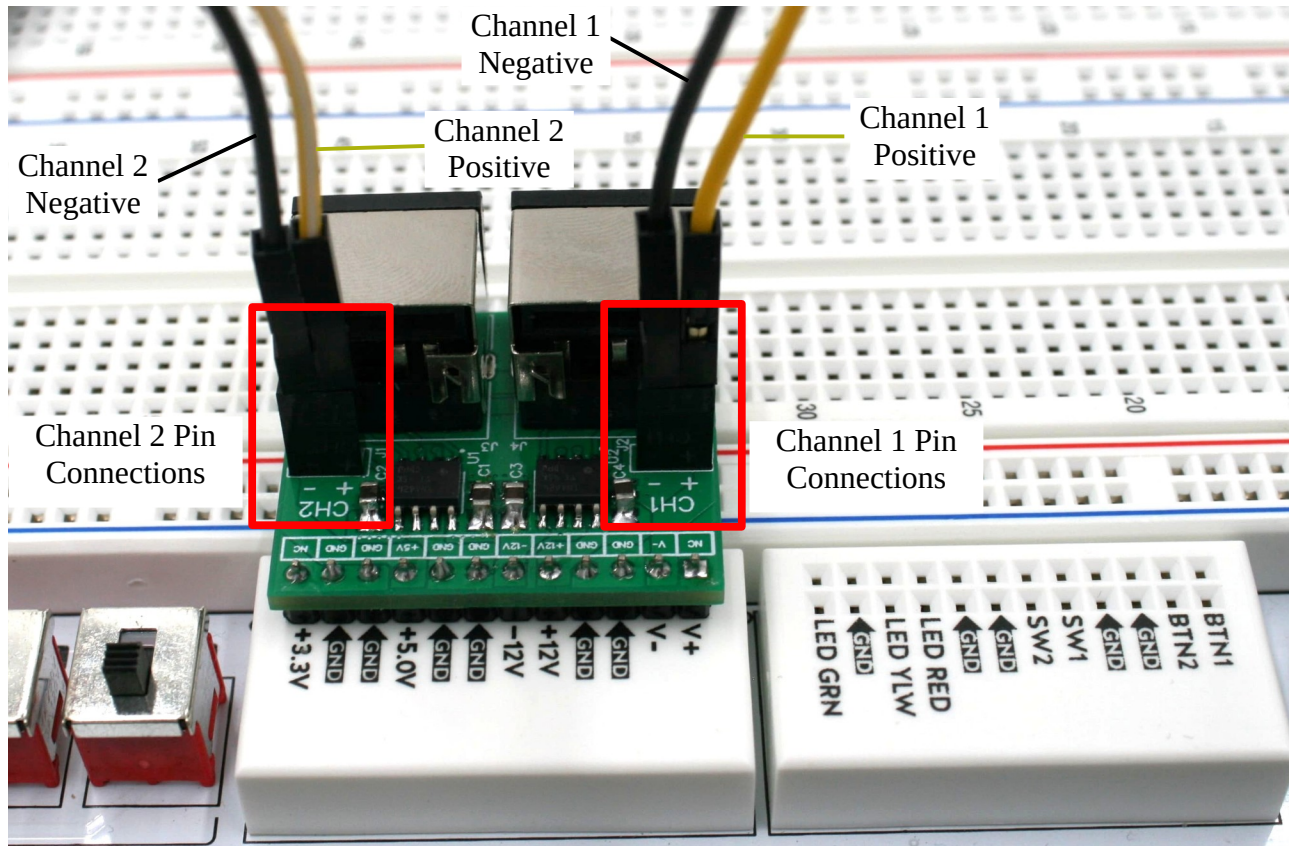


Figure 4: Positive and negative connections for both Channel 1 and Channel 2.

6. Flip the power switch, located on the side panel of the board, into the on position. The power light should turn green.
7. Ensure Waveforms software is closed completely before launching LabScribeADS.
- 8.

Note: The hardware may not be found immediately by the software. Press OK. Flip the power switch off and then back on. Then click the 'Find Hardware' icon. A 'Device Status Dialog' will pop up with the device's serial number when the device is recognized.

Version 2: Analog Discovery Studio MAX Hardware Setup

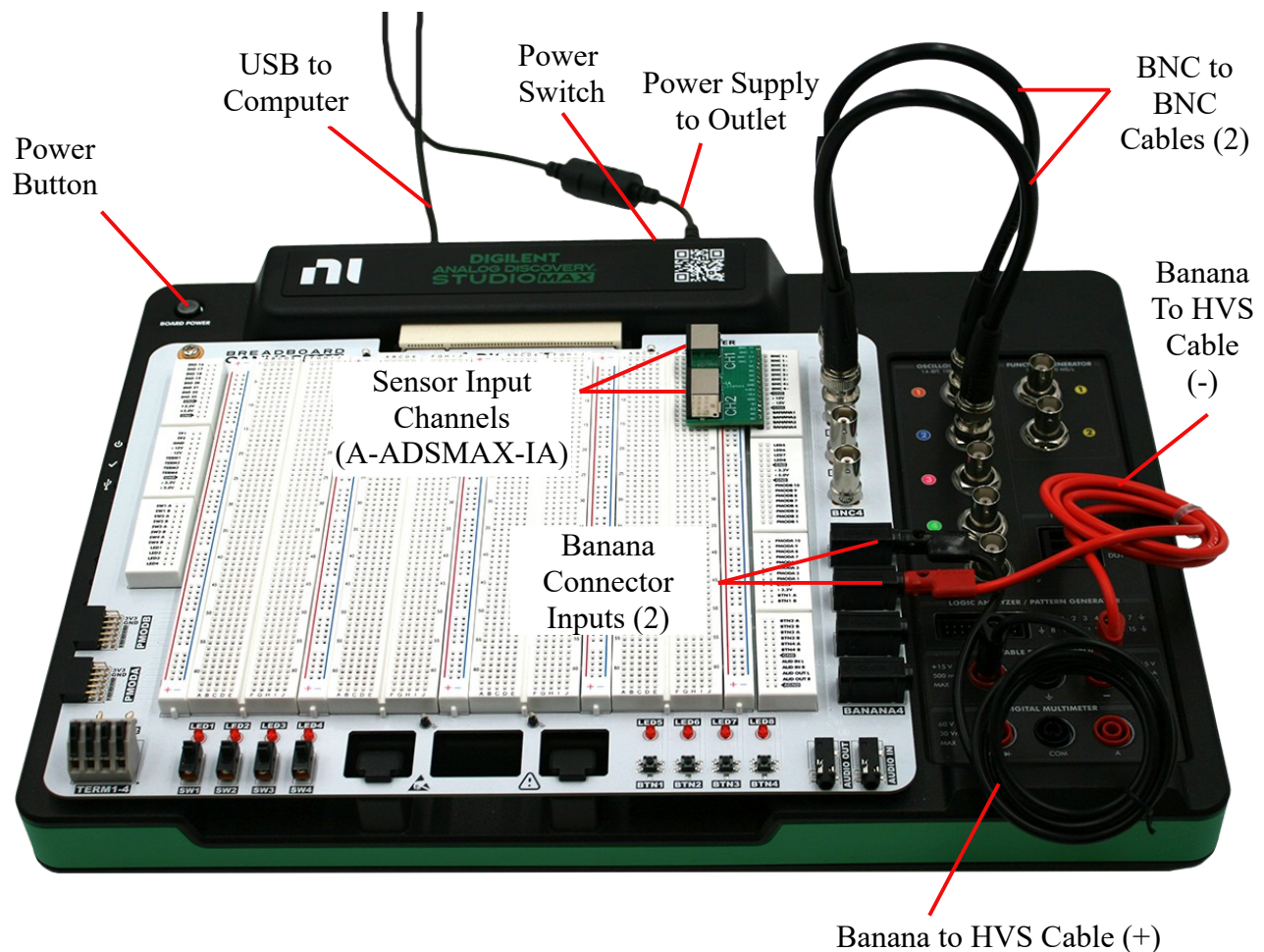


Figure 5: Full hardware setup with USB, power supply, and A-ADSMAX-IA wired connections.

1. Locate the A-ADSMAX-IA Adapter Board.
2. Plug the USB cable into the USB port on the side (rear) panel of the ADS board, and into the USB port of the computer.
3. Plug the power supply cable into the power port on the side panel of the ADS board, and into the wall outlet.

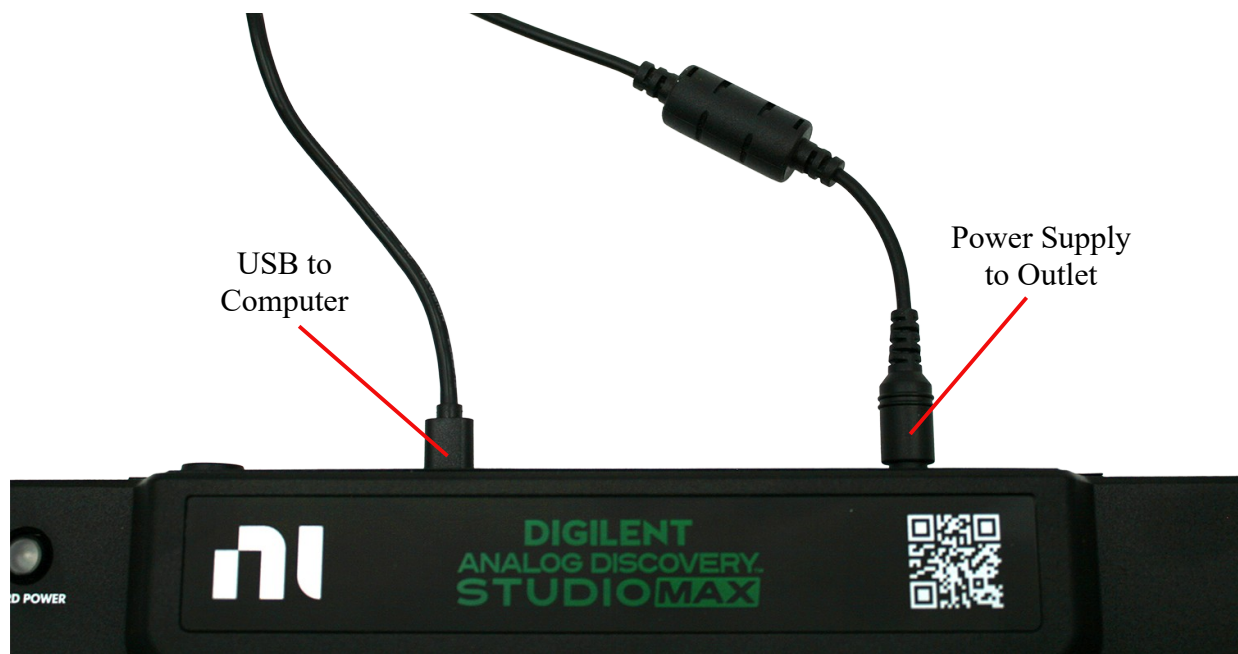




Figure 6: USB and power supply connections on the ADS MAX.

4. Insert the pins on the A-ADS-IA into the ADS board. Match the pin connections for BNC 1+ through BANANA4. The sensor input channels should face towards the center of the board.
5. Locate two BNC to BNC Cables.
 - Plug the first BNC to BNC cable into the BNC 1 input and into Channel 1 on the oscilloscope, labeled with an orange .
 - Plug the second BNC to BNC cable into the BNC 2 input and into Channel 2 on the oscilloscope, labeled with a blue .

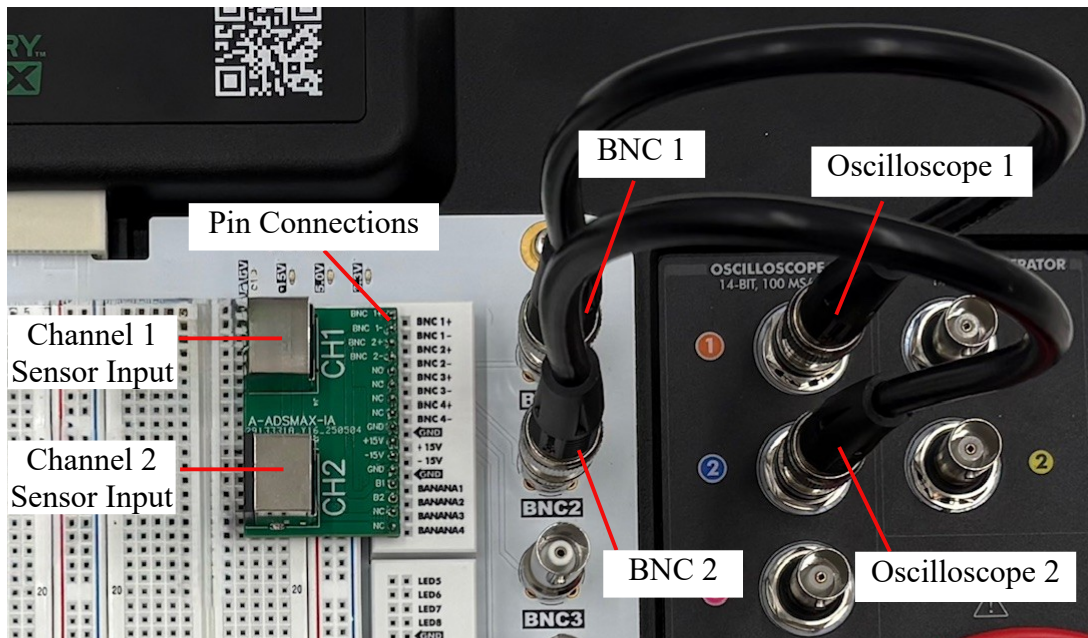


Figure 7: A-ADSMAX-IA pin connections and BNC-BNC connections on the ADS MAX.

6. Wire the positive and negative connections for Channel 1 and Channel 2 as shown and described below.
 - Positive (+) Variable Power Supply to Banana 1.
 - Negative (-) Variable Power Supply to Banana 2.

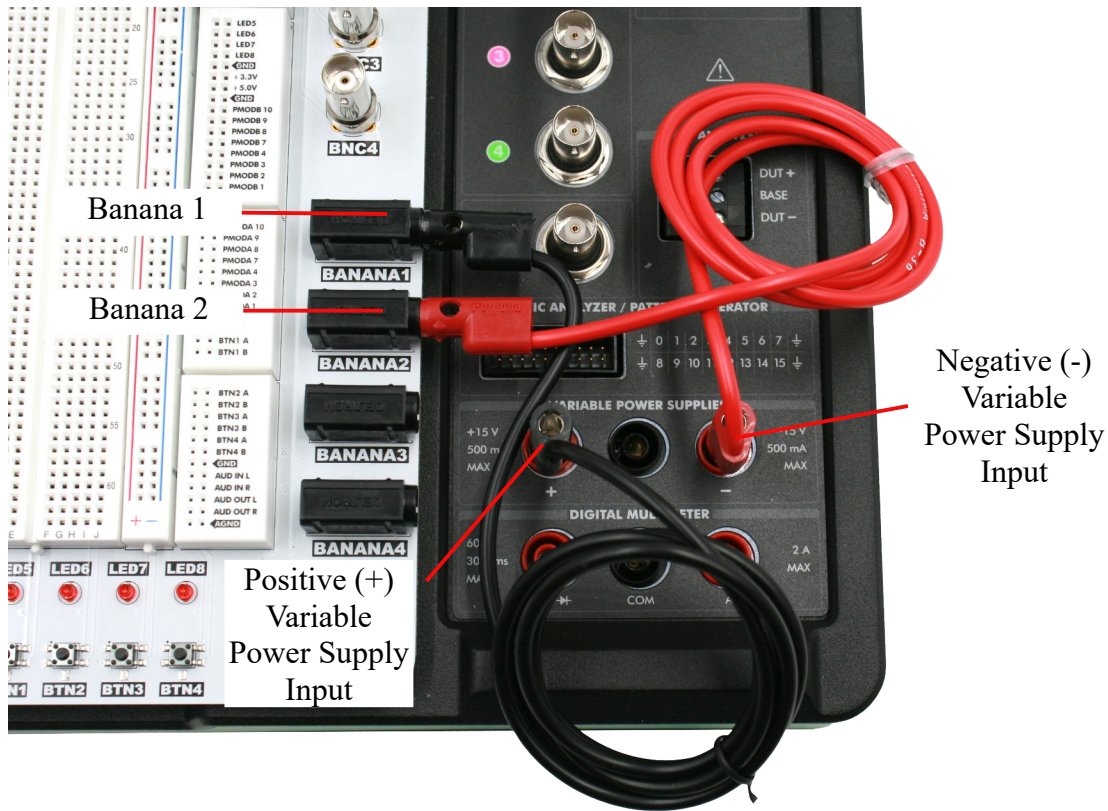


Figure 8: Positive and Negative Variable Power supply connections to Banana 1 and Banana 2.

7. Flip the power switch, located on the side rear panel of the board, into the on position.
8. Press the ‘Board Power’ button located on the top left corner of the board. The power light should turn green.

Launch LabScribeADS

Close WaveForms Software completely. LabScribeADS will not run.

Open LabScribeADS by double-clicking the shortcut.

Note: The hardware may not be found immediately by the software. Press OK. Flip the power switch off and then back on. Then click the ‘Find Hardware’ icon. A ‘Device Status Dialog’ will pop up with the device’s serial number if the device is recognized.



Load the Settings Group

- Click "Settings" on the LabScribe toolbar.
- Click "Load Group" - a new window will open.
- Choose the Settings folder corresponding to your hardware, Choose ADSLabs.
- A new window will open with the lab folder with a group file.
- Double-click the ADS Labs group file or click "Open".
- The window will close, and you will be back to the original LabScribe recording window.

Accessing the Lab Exercises

- On the LabScribe Recording window – Click "Settings"
- You should now see a list of Experiments.
- When you click on any lab exercise two windows will open:
 - a PDF of the lab exercise setup for that experiment
 - a LabScribe recording window with the settings needed to run the lab exercise.
- To access the lab exercise instructions, select Experiment – Lab.

Support:

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