

How to install an Agilent instrument on your computer for use in LabVIEW

Uzair Latif, PHYSLAB, LUMS

Updated: 3 March 2015

1. Install the latest version of LabVIEW in your computer.
2. Install the latest version of NI VISA in your computer. This can be downloaded from the following webpage:
<http://www.ni.com/nisearch/app/main/p/bot/no/ap/tech/lang/en/pg/1/sn/catnav:du,n8:3.25.123.1640,ssnav:ndr/>
3. Install the latest version of the “Plug-and-Play” driver of your respective instrument. These are all available on the www.ni.com website. You can also find them on the following webpage: <http://www.ni.com/downloads/instrument-drivers/> . The drivers come in the form of a .zip file. You have to extract the contents of this folder to the **user.lib** and **instr.lib** folders. The latter two folders are present in **National Instruments**→**LabVIEW2014** (or whatever your version of LabVIEW is).
4. Next you have to install the respective IO suite of the company whose instrument you are using. In our case it would be the Agilent IO suite. This is available at <http://www.keysight.com/main/software.jsp?cc=PK&lc=eng&ckey=1184883&nid=-33330.977662&id=1184883> .
5. Now on your Desktop you will be able to see an icon of **NI MAX**. Double click on it and when the window opens follow these steps. Go to **Tools**→**NI VISA**→**VISA options**. A new tab will open up on the window. On the left side you will see **Passports**. Click on that and a list of all the Passports will come up in front of you. Only one of them **NIVisaTulip.dll** will be unchecked. Check the box and right next to it and click on **Save**.
6. Now go to **instr.lib** folder in **the National Instruments** folder. And open your instruments folder. This folder will contain another folder of **Examples**. Turn on your instrument and run one of the example Vis. If everything has been done correctly then your instrument should run with LabVIEW.

NOTE: All of these instructions are available on the Agilent document (<http://cp.literature.agilent.com/litweb/pdf/5990-3731EN.pdf?cmpid=1273CN>). Please read through that too.