



Using the DG1 General LabVIEW program

*Date:*08/12/2011

Solution: The DG1 General.VI is a small application intended to get users acquainted with general programming of the DG1 series of Arbitrary Waveform Generators using the DG1 LabVIEW Instrument Driver.

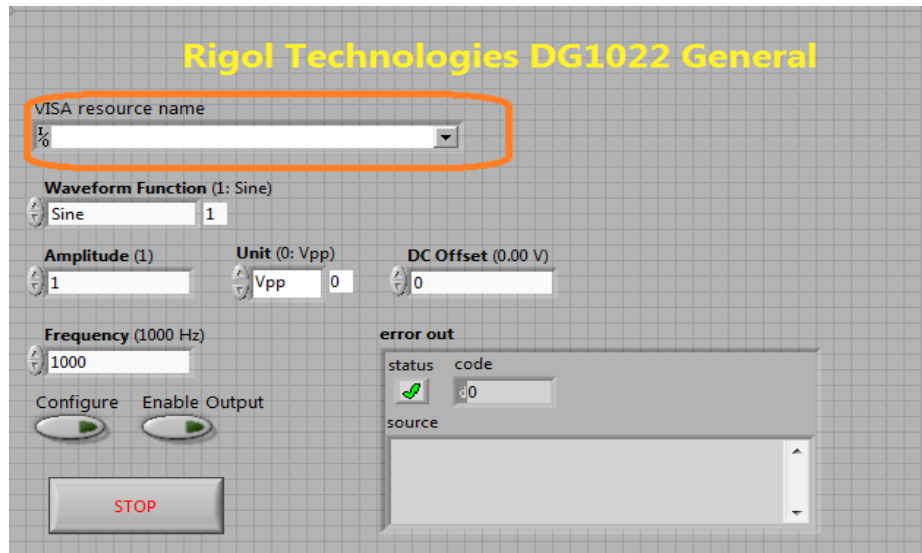
It allows the user to select from number of standard output functions, set the waveform amplitude, frequency, and DC offset.

Here is an example of setting a Square Wave with 1Vpp amplitude, 1KHz frequency, and 1V DC offset:

1. Connect the instrument to a power cord and turn on unit.
2. Connect the instrument to a working USB port on the PC using the provided USB cable or equivalent.
3. Start DG1General.vi



4. Select the VISA resource for the instrument that you are connecting to:



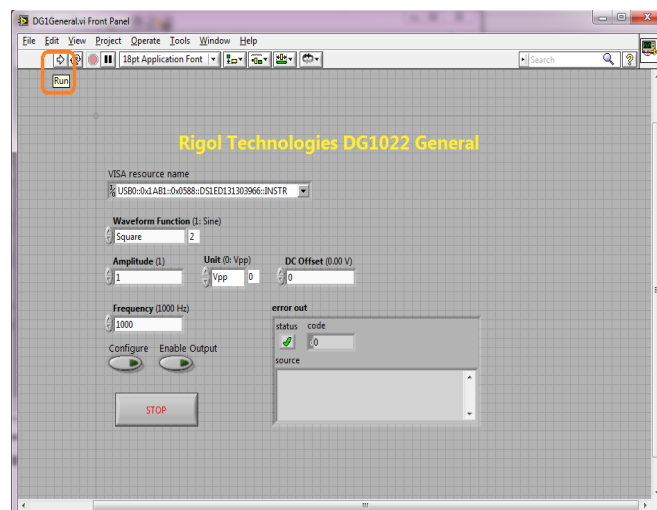
The standard format of VISA addresses for USB instrumentation look something like this:

“USB0::0x1AB1::0x0588::DS1ED131303966::INSTR”

Your instrument will have a different VISA address. The section “*DS1ED...*” indicates the serial number of the instrument.

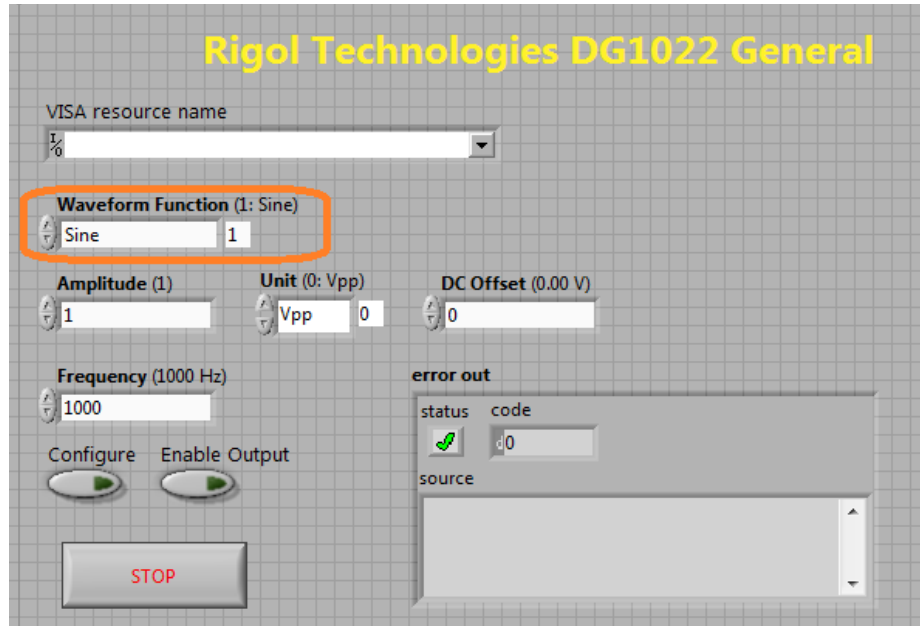
You may need to select Refresh to see your instrument's address.

5. Press the run arrow to start the program.





6. Select the Square waveform function by clicking on the up or down arrows of the Waveform Function Combo box until Square is selected.

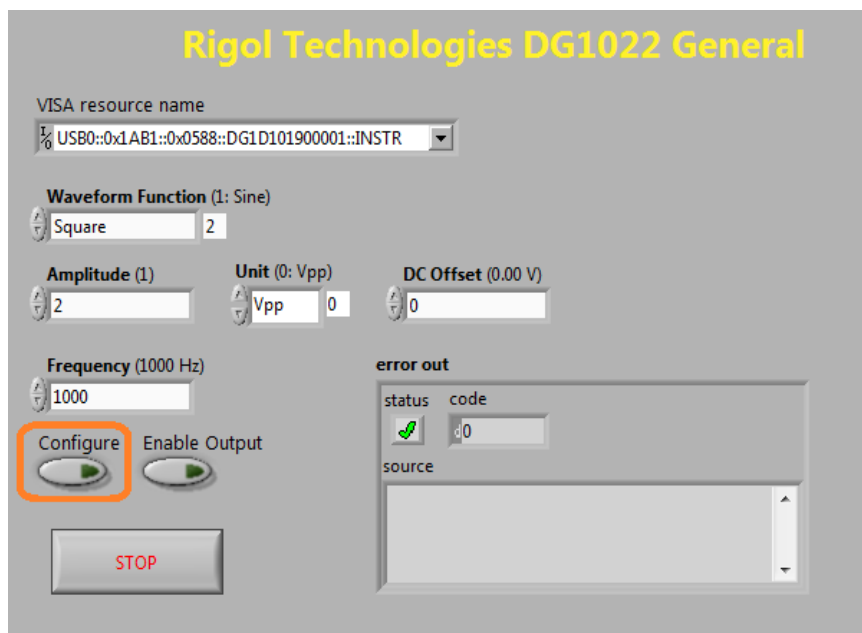


7. Select or type the desired amplitude, voltage units, DC Offset, and Frequency in the other boxes as required using the up and down arrows for each of the combo boxes.

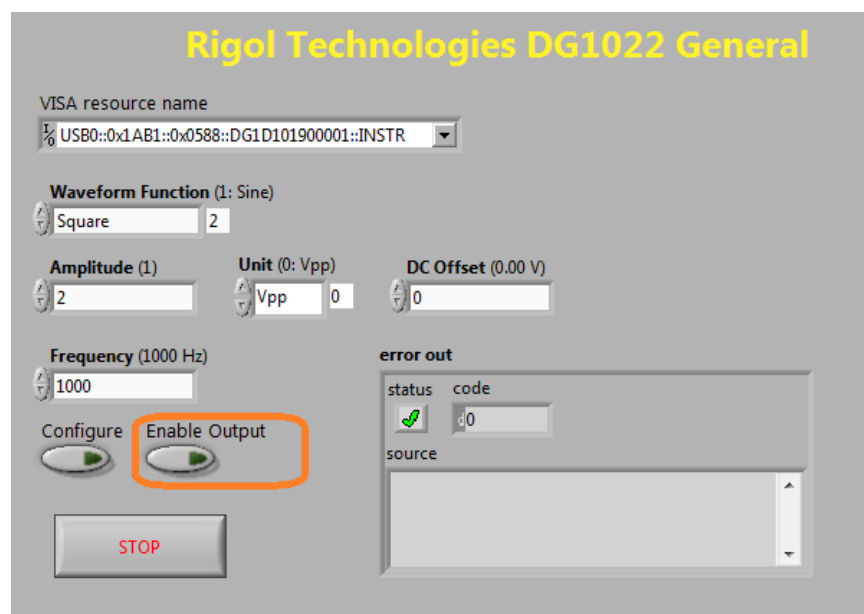


8. Press the Configure button to send the new configuration to the instrument.

NOTE: Each time you make a change, you need to press the Configure button to reconfigure the instrument.



9. Press the Enable output button to output the waveform from the DG1022.





10. Press the Stop button when you are finished. This will close the VISA session and clean up any errors that may be in the pipeline.

