**GenOsc | Manual**

Prepare the materials:

* GenOsc
* 2 pcs. 9V batteries
* Alligator Clips (For the Function Gen)
* Probe (For the Oscilloscope)
* A Computer (For control and monitoring)
* USB to miniUSB cable (for serial communication)

**Function Generator**

1. Power up GenOsc.
2. Set to < feedback > mode. (For monitoring the output wave)
3. Connect GenOsc to computer.
4. In the computer, run the program GenOsc.exe.
5. Click < play > icon.
6. Set the wave and its parameters. You may now observe the wave output of GenOsc in real-time.
7. Put the alligator clips on the GenOsc’s terminals and feed the waveform into any circuit.
8. Now, you have a Function Generator with a feedback.

**Oscilloscope**

1. Power up GenOsc.
2. Set to < normal > mode. (So the input will come from the Oscilloscope probe terminal, not from the Function Generator terminals)
3. Plug the Probe into the Oscilloscope terminal.
4. In the computer, run the program GenOsc.exe.
5. Click < play icon > and watch the UI plot the incoming signal from the probe.
6. Now, you have an Oscilloscope.

Know that the two functionalities may be used solely or together. For example, one may use only the Oscilloscope functionality of GenOsc to observe a waveform occurring from any circuit. One may also use only the Function Generator functionality of GenOsc to feed a necessary waveform to an awaiting circuit.

But the really good thing about GenOsc is that both of these functionalities may be used simultaneously. Two functionalities in one package. Feed a signal from the function generator to your circuit and watched how it reacts by direct visual observation and control through the convenience of your computer’s graphical user interface.

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