

#### Introduction:

The PA1011 is a USB controlled 10 watts 1 MHz power amplifier. The PA1011 features a  $\pm 10V$  input and a  $\pm 12 V$  output.

The PA1011 offers a selection of useful features, such as:

- 10X amplification
- Inverting and non-inverting output
- DC offset
- Storable amplification settings; allowing independent operation

#### Usage:

The PA1011 can be controlled through a PC or a compatible function generator such as the Rigol DG1022 or the DG5000 series function-generators

- The PA1000 control software provides a simple to use graphical interface:



- Controlling the PA1011 with the DG1022:

- Connect via USB cable the back port on the PA1011 to the front USB port of the DG1022 (A yellow link light will be observed on the PA1011)
- Press the "Utility" button on the DG1022
- The Utility menu will appear as below
- Press the button corresponding with "PA"



- The Power Amplifier menu will appear on the screen as below:



PA will be off by default, press the button corresponding with "Swtich" in order to enable the PA output. A output light will now be observed on the PA

- The amplification scale can also be toggled from a default of 1X to 10X.
- The DC offset is adjustable as well through the DG1022 by pressing the OffsOFF button to enable the offset and set it's value.