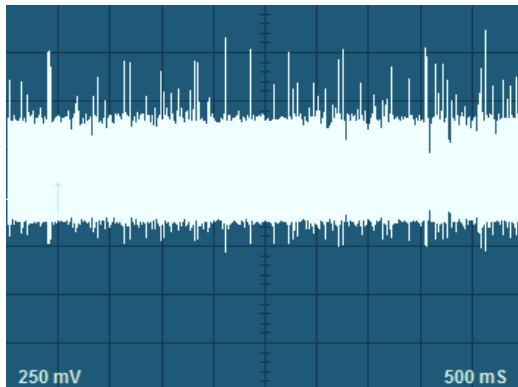


Signal test with the DigitalAudioAnalyzer

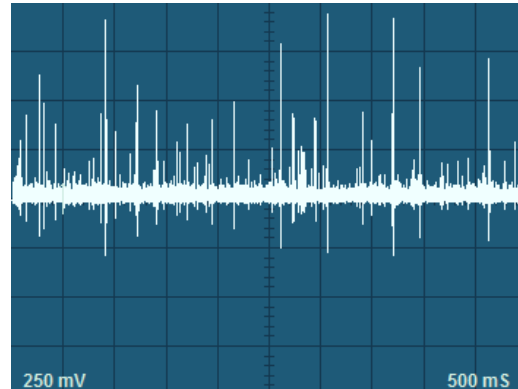
Download the DAA from here: www.theremino.com/downloads/uncategorized

Place a sample of Cesium or Americium as close as possible to the crystal scintillator.

Run the DAA, press "Mono", set the knob at the bottom left "CH1" to 250mV/division, the knob "Time Base" all to the left, at 500 mS/division and put the trigger in "OFF"

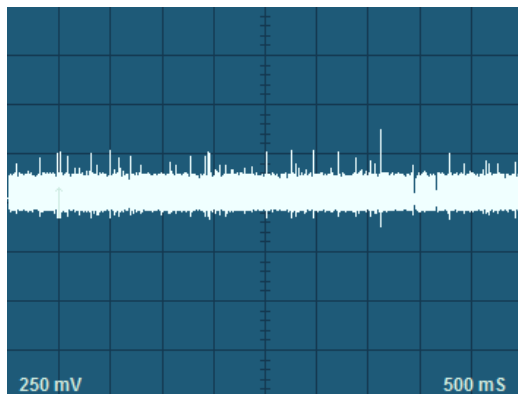


Signal of suitable amplitude - Cesium

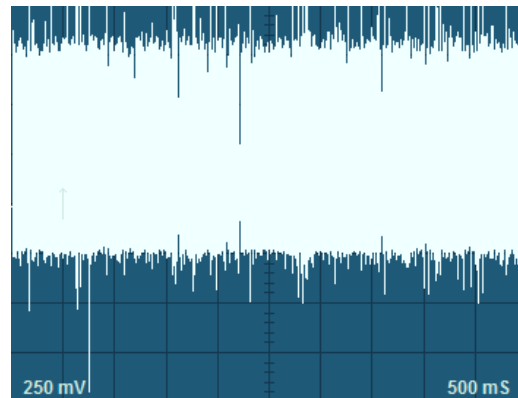


Signal of suitable amplitude - Americium

These are signals of suitable amplitude, note that the highest peaks only be released from that scale, adjusted to 250 mV per square, shows exactly the whole range of the sound card (+/- 1 Volt) A good signal could be quite lower or slightly higher but is not essential to the levels shown in the following two images.



Signal too low



Signal too high

To adjust the amplitude of the signal can adjust the voltage of the photomultiplier tube or the input level in the audio mixer.

It is good to keep the adjustment of the mixer very low and raise enough tension on the tube PMT (700 .. 800 volts) so as to maximize the ratio between signal and noise.