

04_SpeakerTests

January 10, 2020

1 Speaker Tests

- 8Ohm, 2W toy speaker connected to channel 2 with BNC test leads.

```
[1]: import mhs5200
```

```
[2]: from mhs5200.enums import SINE, SQUARE, UP, DOWN, TRI  
# sine, square, ramp up, ramp down, triangle.
```

```
[3]: import time
```

```
[4]: signal_gen = mhs5200.MHS5200(port="/dev/ttyUSB0")  
signal_gen.on()  
channel = signal_gen.chan2
```

1 Hz square wave.

```
[5]: channel.amplitude=1  
channel.frequency=1  
channel.wave=SQUARE
```

1 Hz square wave, louder.

```
[6]: channel.amplitude=2  
channel.frequency=1  
channel.wave=SQUARE
```

```
[7]: channel.amplitude=0.5  
channel.frequency=2  
channel.wave=SQUARE
```

This is only a test.

```
[8]: channel.amplitude=0.5  
channel.frequency=1000  
channel.wave=SINE
```

What 1kHz sounds like in different wave forms.

```
[9]: for wave in [SINE, SQUARE, UP, DOWN, TRI]:  
      channel.amplitude=0.5  
      channel.frequency=1000  
      channel.wave=wave  
      time.sleep(5)
```