

## **Transmitter (Tx)**

What you would need:

- 1- Our in-house built transducer
- 2- Laptop or desktop computer with audio jack output
- 3- Xli2500 Two-channel 750W power amplifier

## **Note:**

The transmitted signal is generated using MATLAB, we first transmit a pure sine at around 17kHz the resonant frequency of our transducer. Secondly, we employ pulse width modulation (PWM) where the '1' bit is twice as long as the '0' bit.