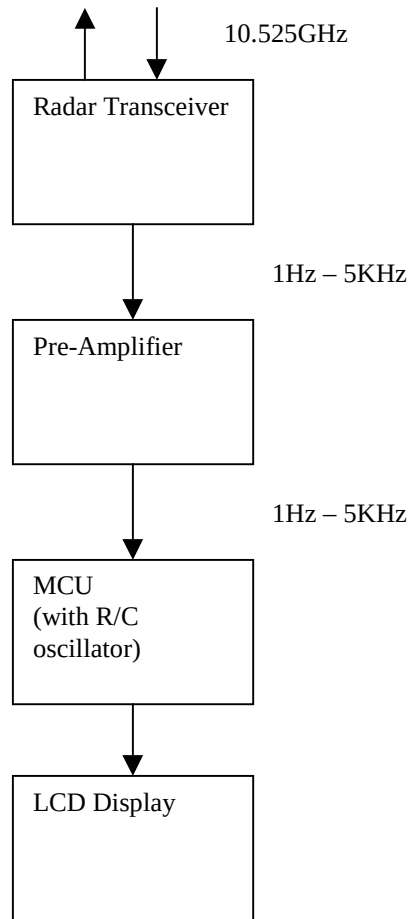




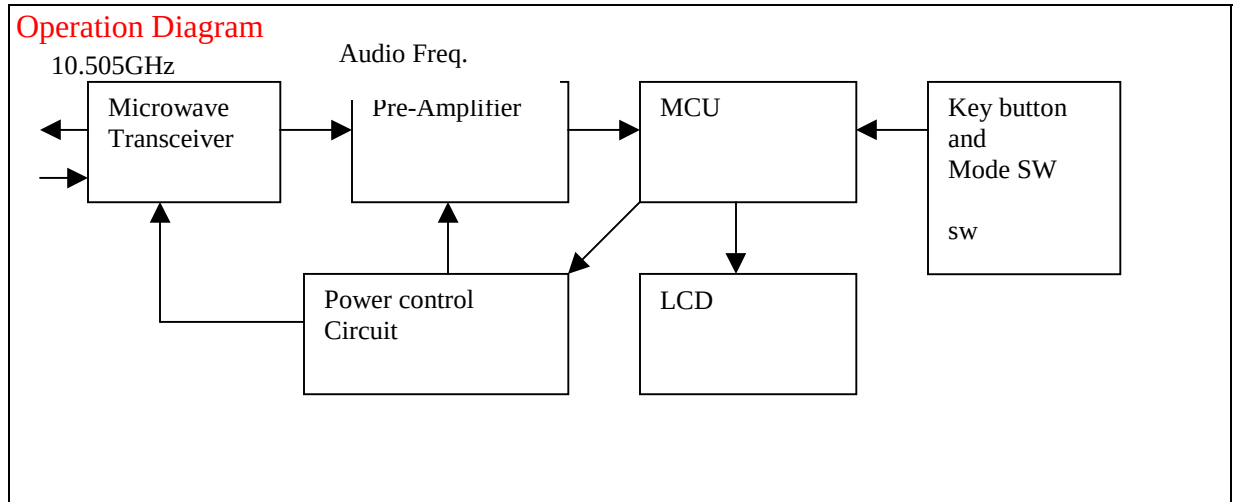
### **Frequency Path**

### Operation descriptions:

Microwave transceiver output signal (10.525GHz) continuous. When there is object moving in front of the transceiver, the microwave signal will be blocked and reflect back to transceiver. The time between the signal transmit and receive generates phase shift. According to the Doppler effect, microwave transceiver will generate relative audio frequency to output (100-5KHz).

Pre-amplifier amplifies the audio signal, filter out some noise and pass the signal to MCU.

MCU manages the pre-amp signal, display relative number on to LCD. MCU also controls the whole circuit power and all buttons.



### Ground system:

The ground flow follows the signal path. The sequence is as follows:

