

## **TRANSMITTER OPERATIONAL DESCRIPTION OF MINI PHANTOM**

### **REMOTE**

The transmitter device is used four AAA alkaline battery, it is designed to operate a single fixed frequency in 418Mhz band. Please see the attached schematics diagram.

Transmitter is employed with one Microprocessor U1, it encode the binary information into data stream, when push any one of the button keys, it will have information activated, various data stream signal is then fed into the radio frequency transmitter Q1 and send out through the telescopic antenna. The data stream signal contents are volume control, channels, and various voice data are sent.

U3 is the low voltage detector for batteries; it will give out warning signal to U1 when the battery is low. U2 is the 5V regulator for the transmitter.

The XT1 418Mhz saw resonator and Q1 forms the OOK oscillator. LT2 and CT3 for second harmonics filtering purpose, while LT2 and CT4 form the low pass filter for harmonics. The modulated radio frequency is then transmitted through the 7 inches telescopic antenna.