

RECEIVER OPERATIONAL DESCRIPTION OF MINI PHANTOM REMOTE

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

Receiver is employed with two decoders and sound chips U1 and U5 to decode the data stream and send audio patterns into audio power amplifier U6 for amplification. Audible signal is then transmitted to the speaker LS1.

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

The front-end amplifier Q2 amplifies the receiving signal, the radio frequency is then fed into U4 (receiver chip), C10, C11 and L2 is the matching circuit for receiver chip. It operates in the superheat mode, the local oscillator is generated by the X1, the baseband signal is then demodulated by U4 and fed into U1 and U5 for decode. C21, L3 and C12 are the matching circuit for antenna and front-end amplifier.