The principle of SP950-RS40 wireless receiver

The aerial is received the signal to send to Q1 and amplify RF by T3, enter IC4SA2111 Pin1 to enlarge RF after T2 selects frequently, Q2, 9018 and T1, XT3 (39. 160MHZ) Make up the oscillator, is elected 39.160 MHz by T1. Send to IC4 Pin21 and carries on mix, passes XT1 (10. 7 MHz) Go on inter-frequency enlarge and combine select frequently, and by T5 (10. 7 MHz) to compose a detector then modulated an audio signal then through Pin13, Pin14 outputs the signal of the audio frequency.

The audio signal sent into Volume rotary and controlled the volume size after EJ1 switch over by "Line In" and SA2111 signal through IC1 UTC4558 modulate a low frequency signal send to IC2 BA5417 then amplify to driver a 4 Ohm 15 watts loudspeaker . One another audio signal enters IC3 UTC8227 then amplify to driver a 4 Ohm 3watts loudspeaker.
The power supply is build in one AC-DC12V adaptor and "C" size battery 8 pieces, cut off battery power automatically when inserting outer AC-DC adaptor. As the power switch "ON", IC2, IC3 work, As the power switch" OFF", IC2, IC3 is in the state of "standby" ; Outputted 6V voltage to supply IC1, IC4, Q1, Q2, LED display by IC5 regulated voltage.