

Water Fantasy (27.145MHz Transmitter)

Tx:

Transmitter is composed of remote encoder IC, Oscillator circuit, Mixer , AF Amplifier and other parts.

- a. Remote encoder circuit is composed of IC (SA 206A DIP14), switch SW1,S2,S3,S4,S5 other components. The IC pin 14,2,10,11,13 control forward, left , up ,down and encoding signal output by pin 9 respectively.
- b. Oscillator circuit(27.145MHz) is composed of Q1,R5,C7,L4,C12,R6,X1 and other components.
- c. Mixer and RF Amplifier circuit is composed of Q2,R1,C5,L3,C3,C2,L2,C1,L1 and other components.
- d. Power supply circuit is composed of R8,C10,C9,ZD1 and other components.
- e. This unit makes use of an external flexible 61 centimeters long antenna. Energy is with a 9-volt battery.

Rx:

This unit is composed of decoder IC, Super regenerative circuit, Diving circuit.

- a. Super regenerative circuit is composed of Q1,C3,C1,L,C2,L1,C5,R2,C4,C6,R1,R3 and other components.
- b. IC(SA206A) ,R5,C8,C9,R6,R7,R8,C10 and other components combined as encoder circuit and signal amplifier circuit.
- c. Diving circuit which control forward is composed of audion, Q15,Q14,R20 and other components.
Diving circuit which control left/right is composed of Q2,Q3,Q4,Q5,Q6,Q7,R12,R13,R22,R23,L5,T6,C14 and other components.
- d. Diving circuit which control up/down is composed of Q8,Q9,Q10,Q11,Q13,L7,L8,C15 and other components.
- e. Power supply circuit is composed of D1,C12,C13, R18 and other components.