

## **Operation Description for Shadow Hawk (49MHz)**

The receiver for Shadow Hawk is powered by 1 x 7.4V rechargeable battery. The radio frequency channel is 49.860MHz. When received a forward, backward, turn right, turn left signal, it will fly to the corresponding direction.

Referring to the receiver circuit design, the circuit description is listed below:

- Q1 and its associated circuit act as a RF amplifier.
- U1 and its associated circuit act as a decoder.
- U6 and its associated circuit act as a voltage regulator.
- U51/2 and its associated circuit act as a motor driver for M1.
- U52/2 and its associated circuit act as a motor driver for M2.
- Q2, Q3, U2 ~ U4 and its associated circuit act as a logic circuit for M1 and M2.
- U7 and its associated circuit act as a charging circuit.