

## YC1L-YC12 operation theory

Objective: Any objected movement nearby the unit would activate an audible or Ultrasonic sound and/or flashlight.

- (1) The transistor Q1 and associate components generated a 914MHz high frequency radio wave and emit through the antenna.
- (2) Any object movement nearby the unit will alter the emit 914Mhz frequency slightly and pick up (using the same antenna) by the unit. These shifted in frequency will be amplify and compared by D1 & IC U2 (plus associated circuit), which will generated a “triggering signal”.
- (3) The triggering signal will activated IC U5 (an oscillator device). Which is used to drive the output transducer giving an audible or ultrasonic sound and/or flash light.
- (4) 6V DC or AC adaptor can operate unit.