## RF EXPOSURE EVALUATION

## 1. PRODUCT INFORMATION

Product Description	PIR ALARM KIT
Model Name	RL-R17
FCC ID	YI6RL-R17

## 2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v05

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  for 10-g extremity SAR.

Where f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

# 3. CALCULATION

According to the follow transmitter output power  $(P_t)$  formula:

 $P_t = (E \times d)^2 / (30 \times g_t)$ 

P<sub>t</sub>=transmitter output power in watts

g<sub>t</sub>=numeric gain of the transmitting antenna (unitess)

E=electric field strength in V/m

d=measurement distance in meters (m)

 $P_t=0.022mW$ 

The result for RF exposure evaluation SAR=(0.022mW /5mm) .[ $\sqrt{0.434}(\text{GHz})$ ]= 0.0029<3.0 for 1-g SAR

# 4. CONCLUSION

The SAR evaluation is not required.