

# FCC RF Exposure

EUT Description: Solar Wireless Backup Camera & Monitor Kit

Model No.: Y01

FCC ID: 2A2VG-Y01

## 1. Limit for General Population/ Uncontrolled Exposures

| Frequency        | Power density (mW/ cm <sup>2</sup> ) | Averaging time(minutes) |
|------------------|--------------------------------------|-------------------------|
| 300MHz----1.5GHz | F/1500                               | 30                      |
| 1.5GHz---100GHz  | 1.0                                  | 30                      |

## 2. Test Result of RF Exposure Evaluation

2477MHz:

$$\text{EIRP(dBm)} = 100.82(\text{dBuV/m}) - 95.2 = 5.62(\text{dBm})$$

| Mode                                                                             | Max PK Output power(dBm) | Tune Up Power(dBm) | Max Tune Up power(mW) | Antenna Gain(dBi) | Antenna Gain (linear) | MPE (mW/cm <sup>2</sup> ) |
|----------------------------------------------------------------------------------|--------------------------|--------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 2477                                                                             | 5.62                     | 5±1(6)             | 3.98                  | 2.63              | 1.83                  | 0.00145                   |
| $Pd = \frac{P_{out} * G}{4\pi r^2};$                                             |                          |                    |                       |                   |                       |                           |
| Note:                                                                            |                          |                    |                       |                   |                       |                           |
| Note: The estimation distance is 20cm                                            |                          |                    |                       |                   |                       |                           |
| Note: PK Output power= conducted power.                                          |                          |                    |                       |                   |                       |                           |
| Conducted power see the test report <b>HK2311175548-E</b> , antenna gain=2.63dBi |                          |                    |                       |                   |                       |                           |

when the minimum test separation distance is >20 cm, a distance of 20 cm is applied to determine RF Exposure test exclusion. The test exclusion threshold is 0.00145 which is < 1.0, RF Exposure testing is not required.