

# INTERTEK TESTING SERVICES

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## RF Exposure

The Equipment Under Test (EUT) is a SUPER CAM with Wi-Fi function operating at 2412-2462MHz. The EUT is powered by DC 3.7V rechargeable battery or DC 5V by adapter. For more detailed features description, please refer to the user's manual.

Antenna Type: Integral Antenna

Antenna Gain: 2.41dBi

Modulation Type: CCK, BPSK, QPSK, 16QAM, 64QAM, DQPSK, DBPSK

The normal radiated output power (e.i.r.p) is: 23.41dBm (tolerance: +/-4dB).

The normal conducted output power is 21.0dBm (tolerance: +/-4dB).

The maximum conducted output power for the EUT is 24.95dBm in the frequency 2.412GHz 802.11g mode which is within the production variation.

The minimum conducted output power for the EUT is 17.06dBm in the frequency 2.437GHz 802.11b mode which is within the production variation.

According to FCC Part 2.1091, this unlicensed transmitting device is categorically excluded from routine environmental evaluation for RF exposure prior to equipment authorization or use, according to the KDB 447498 and OET 65, the simple calculation as below:

The source-based time averaged maximum radiated power = 23.41dBm+4dB= 27.41dBm = 550.81mW

At the distance (R) of 20cm to 40cm and in 0.3 GHz to 6 GHz, MPE Exclusion Threshold Level:

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

The MPE limit is 3060mW for general population and uncontrolled exposure in the 2.4GHz frequency range according to FCC Part 1.1307. As the measured power density at 20cm from the transmitter is lower than the MPE limit, the compliance to the MPE limit can be ensured by indicating the minimum 20cm separation between the transmitter's radiating structure and body of the user or nearby persons.

Note: EIRP is higher than ERP, thus EIRP is compared with the Exclusion Threshold.

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