## INTERTEK TESTING SERVICES

## **RF** Exposure report

The Equipment Under Test (EUT) is a Drone Lunar 14.4inch With Camera Streaming With Virtual Reality with Wi-Fi function operating at 2412-2462MHz for 802.11b/g/n-HT20, 11 channels with 5MHz channel spacing. The EUT is powered by DC 3.7V rechargeable battery. The EUT can't operate while charging. For more detailed features description, please refer to the user's manual.

WiFi Module

Antenna Type: Integral Antenna

Antenna Gain: 2dBi

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

The normal radiated output power (e.i.r.p) is: 15.0dBm (tolerance: +/-3dB).

The normal conducted output power is 13.0dBm (tolerance: +/-3dB).

The maximum conducted output power for the EUT is 13.6dBm in the frequency 2.462GHz 802.11b mode which is within the production variation.

The minimum conducted output power for the EUT is 10.5dBm in the frequency 2.462GHz 802.11n-HT20 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:

For Maximum Permissible Exposure (MPE) evaluation of the product, the maximum power density at 20 cm from this transmitter shall be less than the General Population / Uncontrolled MPE limit in OET Bulletin 65.

The maximum E.I.R.P= 18dBm=63.1mW

The source-based time averaged maximum radiated power = 63.1mW x Duty Cycle = 63.1mW

From above data, the exposed power density at a distance (R) of 20cm from the center of radiation of the antenna can be calculated according to OET Bulletin 65 as follow:

- $= 63.1 \text{mW} / 4 \pi \text{R}^2$
- = 0.0126mW/cm^2

The MPE limit is 1.0 mW/cm^2 for general population and uncontrolled exposure in the Wi-Fi frequency range according to FCC Part 1.1310. 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.

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Transmitter Duty Cycle Calculation

The EUT transmit continuously during the test, the duty cycle is 1.

The following RF exposure statement or similar sentence is proposed to be included in the user manual:

"FCC RF Radiation Exposure Statement Caution: This Transmitter must be installed to provide a separation distance of at least 20 cm from all persons."

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