

RF Exposure Evaluation

FCC ID: 2AJRWSCM-V3

1. Client Information

Applicant : Liontronic(Shenzhen)Electronics Co.,Ltd
Address : 5F, Block B, Baoyunda Industrial Area, Xixiang Town, Baoan District, Shenzhen, China
Manufacturer : Liontronic(Shenzhen)Electronics Co.,Ltd
Address : 5F, Block B, Baoyunda Industrial Area, Xixiang Town, Baoan District, Shenzhen, China

2. General Description of EUT

EUT Name	:	HOOT Camera	
Models No.	:	HOOT SCM-V3	
Model Difference	:	N/A	
Product Description	:	Operation Frequency: 802.11b/g/n(HT20): 2412MHz~2462MHz	
		Number of Channel:	802.11b/g/n(HT20):11 channels see note(3)
		RF Output Power:	802.11b: 9.23 dBm 802.11g: 8.97 dBm 802.11n (HT20): 8.94 dBm
		Antenna Gain:	4 dBi PCB Antenna
		Modulation Type:	802.11b: DSSS(CCK, QPSK, BPSK) 802.11g: OFDM 802.11n: OFDM
		Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n:up to 150Mbps
Power Supply	:	DC Voltage supplied from USB cable. DC power by Li-ion Battery.	
Power Rating	:	DC 5.0V by USB cable. DC 3.7V by 1200mAh Li-ion Battery.	
Connecting I/O Port(S)	:	Please refer to the User's Manual	

Note: More test information about the EUT please refer the RF Test Report.

SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

(1) Clause 4.3: General SAR test reduction and exclusion guidance

Sub clause 4.31: Standalone SAR test exclusion considerations

- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance ≤ 5 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{\text{(GHz)}}}] \leq 3.0 \text{ for 1-g SAR}$$

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{\text{(GHz)}}}] \leq 7.5.0 \text{ for 10-g SAR}$$

2. Calculation:

Test separation: 5mm					
WiFi Mode(802.11b)					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	9.16	±0.5	9.247	2.872	3.0
2.437	9.23	±0.5	9.397	2.934	3.0
2.462	9.21	±0.5	9.354	2.935	3.0
WiFi Mode(802.11g)					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	8.97	±0.5	8.851	2.749	3.0
2.437	8.69	±0.5	8.299	2.591	3.0
2.462	8.91	±0.5	8.730	2.740	3.0
WiFi Mode(802.11n(HT20))					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	8.84	±0.5	8.590	2.668	3.0
2.437	8.67	±0.5	8.260	2.579	3.0
2.462	8.94	±0.5	8.790	2.759	3.0

So standalone SAR measurements are not required.