RF Exposure Evaluation

FCC ID: 2AL56GF-H100

1. Client Information

Applicant	:	Shenzhen Goodflys Technology Co.,Ltd.
Address	:	308 Room 3th Floor Building A, Qinye Business Center, Xin an 6 Road, Xixiang Town, Baoan District, Shenzhen, Guangdong, China
Manufacturer	:	Shenzhen Goodflys Technology Co.,Ltd.
Address	:	308 Room 3th Floor Building A, Qinye Business Center, Xin an 6 Road, Xixiang Town, Baoan District, Shenzhen, Guangdong, China

2. General Description of EUT

EUT Name	:	Smart Clock Camera	
Models No.	:	GF-H100base, GF-PH100pro, GF-PH100base, GF-PH100pro, GF-L100base, GF-L100pro, GF-T100base, GF-T100pro, GF-L200base, GF-L200pro	
Model Difference	:	All these models are identical in the same PCB layout and electrical circuit, the only difference is model name for commercial.	
Product Description	:	Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz
		Number of Channel:	802.11b/g/n(HT20):11 channels 802.11n(HT40):9 channels
		RF Output Power:	802.11b: 9.28 dBm 802.11g: 9.17 dBm 802.11n (HT20): 9.14 dBm 802.11n (HT40): 9.05 dBm
		Antenna Gain:	2 dBi Integral Antenna
		Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n:OFDM(BPSK,QPSK,16QAM, 64QAM)
		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 5V by USB Cable. DC 3.6V by 9.0Wh 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.

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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:

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

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] ≤7.5.0 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 (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	9.26	9±0.5	9.5	8.913	2.768	**3.0**
2.437	9.28	9±0.5	9.5	8.913	2.783	**3.0**
2.462	9.24	9±0.5	9.5	8.913	2.797	**3.0**
WiFi Mode(802.11g)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	9.15	9±0.5	9.5	8.913	2.768	**3.0**
2.437	9.13	9±0.5	9.5	8.913	2.783	**3.0**
2.462	9.17	9±0.5	9.5	8.913	2.797	**3.0**
WiFi Mode(802.11n(HT20))						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	9.12	9±0.5	9.5	8.913	2.768	**3.0**
2.437	9.11	9±0.5	9.5	8.913	2.783	**3.0**
2.462	9.14	9±0.5	9.5	8.913	2.797	**3.0**
WiFi Mode(802.11n(HT40))						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.422	9.02	9±0.5	9.5	8.913	2.774	**3.0**
2.437	9.05	9±0.5	9.5	8.913	2.783	**3.0**
2.452	9.04	9±0.5	9.5	8.913	2.791	**3.0**

So standalone SAR measurements are not required.

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