Maximum Permissible Exposure Evaluation

FCC ID: 2A56E-IPC007

1. Client Information

Applicant	:	Nooie LLC
Address	:	1603 s main st, suite A, Milpitas, California, United States, 95035
Manufacturer	:	Nooie LLC
Address	:	1603 s main st, suite A, Milpitas, California, United States, 95035

2. General Description of EUT

EUT Name	:	Nooie Indoor Cam 1080P, Baby Cam	
Models No.	:	IPC007, IPC007D	
Model Different	:	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
		RF Output Power:	802.11b: 17.48dBm 802.11g: 15.60dBm 802.11n (HT20): 13.71dBm 802.11n (HT40): 13.90dBm
		Antenna Gain:	3.71dBi PIFA Antenna
		Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n: OFDM(BPSK,QPSK,16QAM, 64QAM)
Power Supply	:	AC/DC adapter(Model:TPA-46B050100UU): Input:AC100-240V, 0.2A, 50/60Hz Output: DC 5V 1A	
Software Version	:	V1.0	
Hardware Version	:	V1.0	
Connecting I/O Port(S)	:	Please refer to the User's Manual	

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MPE Calculations for WIFI

1. Antenna Gain:

Internal Antenna: 3.71dBi.

2. EUT Operation Condition:

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3. Exposure Evaluation:

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S=(PG)/4\pi R^2$$

Where

S: power density

P: power input to the antenna

G: power gain of the antenna in the direction of interest relative to an isotropic radiator.

R: distance to the center of radiation of the antenna

4. Test Result:

Mode	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/cm^2) [S]
802.11b	17.48	17±1	18	3.71	20	0.02949
802.11g	15.60	15±1	16	3.71	20	0.01861
802.11n (HT20)	13.71	13±1	14	3.71	20	0.01174
802.11n (HT40)	13.90	13±1	14	3.71	20	0.01174

5. Conclusion:

As specified in Table 1B of 47 CFR 1.1310- Limits for Maximum Permissible Exposure (MPE),

Limits for General Population/ Uncontrolled Exposure

Frequency Range (MHz)	Power density (mW/cm^2)
300-1,500	F/1500
1,500-100,000	1.0

For 802.11b/g/n:2412~2462 MHz
MPE limit S: $1mW/cm^2$
The MPE is calculated as ***$0.02949mW/cm^2 < limit\ 1mW/cm^2$***. So, RF exposure limit warning or SAR test are not required.

The EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47 CFR2.1091 (b).

The RF Exposure Information page from the manual is included here for reference.

Note

For a more detailed features description, please refer to the RF Test Report.

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