

Report No.: TB-MPE162125

Page: 1 of 4

Maximum Permissible Exposure Evaluation FCC ID: 2ARER-IPC007HD

1. Client Information

Applicant		Shenzhen Apeman Innovations Technology Co.,Ltd		
Addres	-7	Building P11, Huanancheng, Longgang District, Shenzhen, China		
Manufacturer		Shenzhen Apeman Innovations Technology Co.,Ltd		
Address		Building P11, Huanancheng, Longgang District, Shenzhen, China		

TB-RF-075-1. 0



Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE162125

2 of 4 Page:

2. General Description of EUT

EUT Name	:	Nooie Cam Indoor				
Models No.	:	IPC007-720P				
Model Difference		All these models are identical in the same PCB layout and electrical circuit, the only difference is model name and color for commercial.				
Product Description	K	Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz			
		Max Output Power:	WIFI: 15.73 dBm			
		Antenna Gain:	2.28dBi PIFA Antenna			
Power Supply	:	DC Voltage supplied by AC/DC Adapter				
Power Rating	ŀ	AC/DC Adapter (HA-19050100UU): Input: AC 100~240V, 50/60Hz, 0.25A. Output: DC 5V, 1A.				
Connecting I/O Port(S)	Ċ	Please refer to the User's Manual				

Tel: +86 75526509301



Report No.: TB-MPE162125

Page: 3 of 4

MPE Calculations for WIFI

1. Antenna Gain:

PIFA Antenna: 2.28dBi.

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	15.73	16±1	17	2.28	20	0.016864
802.11g	14.74	15±1	16	2.28	20	0.013395
802.11n (HT20)	13.80	14±1	15	2.28	20	0.010640
802.11n (HT40)	12.21	13±1	14	2.28	20	0.008452



Report No.: TB-MPE162125

Page: 4 of 4

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/ cm²)		
300-1,500	F/1500		
1,500-100,000	1.0		

For 802.11b/g/n:2412~2462 MHz

For Bluetooth/BLE: 2402MHz~2480MHz

MPE limit S: 1mW/ cm²

The MPE is calculated as 0.016864mW/cm² < limit 1mW/cm². 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.

----END OF REPORT----