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Maximum Permissible Exposure Evaluation FCC ID: 2ARNK-AI

1. Client Information

Applicant	:	Shenzhen Skymee Technology Co.,Ltd.		
Address	dress: 11/F, Department Store Plaza Building East, No.123, Shennan East Road, Dongmen Street, Luohu District, Shenzhen City, China			
Manufacturer	:	: Skywise medical instrument (shenzhen) co.,ltd		
Address	Iress : No.17-1 South Pingxi Road, Pingdi Town, Longgang District, Shenzhen, China			

2. General Description of EUT

EUT Name).	Petalk Al Dog Camera			
Models No.	:	Petalk AI, Petalk AI II, Petalk AI III, Petalk AI IV, Petalk AI V, Petalk AI VI, Petalk AI VI, Petalk AI VII, Petalk AI VII, Petalk AI IX, AI-A10, AI-A20, AI-A30, AI-A40, AI-A50, AI-A60, AI-A70, AI-A80, AI-B10, AI-B20, AI-B30, AI-B40, AI-B50, AI-B60, AI-B70, AI-B80, AI-D30 AI-D40, AI-D50, AI-D60, AI-D70, AI-D80, AI-D90, AI-C10, AI-C20, AI-C30, AI-C40, AI-C50, AI-C60, AI-C70, AI-C80, AI-E10, AI-E20, AI-E30, AI-E40, AI-E50, AI-E60, AI-E70, AI-E80			
Model Difference	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is shapes and colors.			
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 see note(3) 802.11n(HT40): 7 channels see note(3)		
		RF Output Power: 802.11b: 17.33 dBm 802.11g: 16.33 dBm 802.11n (HT20): 13.75 dBm 802.11n (HT40): 13.33 dBm			
		Antenna Gain:	2 dBi PCB Antenna		
		Modulation Type:	802.11b: CCK, QPSK, BPSK 802.11g/n: OFDM		
Power Supply		USB DC 5V from Switching Adapter(FJ-SW1260502000UN): Input: AC 100-240V, 50/60Hz, Max 0.4A. Output: DC 5V, 2000mA.			
Software Version					
Hardware Version		N/A			
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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MPE Calculations for WiFi

1. Antenna Gain:

PIFA Antenna: 2Bi.

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:

Worst Maximum MPE Result								
Mode	N _{TX}	Freq. (MHz)	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 1	The	2412	17.14	17±1	18	2	20	0.0199
	1	2437	17.33	17±1	18	2	20	0.0199
	TEST STATE	2462	17.14	17±1	18	2	20	0.0199
802.11g 1		2412	16.33	16±1	17	2	20	0.0158
	1	2437	16.26	16±1	17	2	20	0.0158
		2462	16.11	16±1	17	2	20	0.0158
802.11n (HT20) 1	1	2412	13.34	14±1	15	2	20	0.0100
	1	2437	13.75	14±1	15	2	20	0.0100
	W.	2462	13.58	14±1	15	2	20	0.0100
802.11n (HT40)		2422	13.22	13±1	14	2	20	0.0079
	1	2437	13.33	13±1	14	2	20	0.0079
		2452	13.33	13±1	14	2	20	0.0079

Note:

⁽¹⁾ N_{TX}= Number of Transmit Antennas

⁽²⁾ RF Output power specifies that Maximum Conducted Peak Output Power.



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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)

MPE limit S: 1 mW/ cm²

The MPE is calculated as **0.0199mW / cm²** < limit 1 mW / 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-----