

Report No.: TB-MPE162886

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Maximum Permissible Exposure Evaluation FCC ID: 2ANNW-H141C

1. Client Information

Applicant		Shenzhen Annidigital Technology Co., Ltd						
Addres	÷.	3rd Floor, Hasee Bldg, NO.1, Banlan Road, Bantian, Buji Town, Longgang, Shenzhen, China.						
Manufacturer	13	Shenzhen Annidigital Technology Co., Ltd						
Address		3rd Floor, Hasee Bldg, NO.1, Banlan Road, Bantian, Buji Town, Longgang, Shenzhen, China.						

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Shenzhen Toby Technology Co., Ltd.

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2. General Description of EUT

EUT Name	:	Wireless Camera			
Models No.		H141C, H141X, X141X, X141X-X, X141X-XX, IPC5J141XX(A)-I3-W/A, IPC5J141XX(X)-I3-W/A, IPC5J141XX(X)-XX-X/X, XXX5J141XX(X)-XX-X/X ("X" dedicated to A to Z and/or 0 to 999 up to 15 digits)			
Model Difference	13	All these models are identical in the same PCB layout and electrical circuit, The only difference is pixel.			
Product Description		Operation Frequency: Max Output Power:	802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz WIFI: 15.92 dBm		
		Antenna Gain:	3dBi SMA Antenna		
Power Supply	à	DC Voltage supplied by AC/DC Adapter			
Power Rating		AC/DC Adapter (CS-1201000): Input: AC 100~240V, 50/60Hz, 0.5A. Output: DC 12V, 1A.			
Connecting I/O Port(S)		Please refer to the User's Manual			

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MPE Calculations for WIFI

1. Antenna Gain:

SMA Antenna: 3.0dBi.

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	15.92	16±1	17	3.0	20	0.019904
802.11g	14.60	15±1	16	3.0	20	0.015811
802.11n (HT20)	14.29	14±1	15	3.0	20	0.012559
802.11n (HT40)	13.58	13±1	14	3.0	20	0.009976



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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

For Bluetooth/BLE: 2402MHz~2480MHz

MPE limit S: 1mW/ cm²

The MPE is calculated as 0.019904mW/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----