

Shenzhen Toby Technology Co., Ltd.



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Maximum Permissible Exposure Evaluation FCC ID: 2BE5Z-P100A

1. Client Information

Applicant	:	Shenzhen Anywii Electronics Technology Co., Ltd			
Address		402, Building A2, Hengli Industrial Park, No. 168, Xiakeng 1st Road, Tongde Community, Baolong Street, Longgang Dist., Shenzhen, Guangdong, China			
Manufacturer	•	Shenzhen Anywii Electronics Technology Co., Ltd			
Address	-	402, Building A2, Hengli Industrial Park, No. 168, Xiakeng 1st Road, Tongde Community, Baolong Street, Longgang Dist., Shenzhen, Guangdong, China			

2. General Description of EUT

EUT Name	0	Security Camera				
Models No.	1	P100A, P100, P100B, P211, P221, P311, P321, P411, P421				
Model Different	3	All these models are identical in the same PCB, layout and electrical circuit, the only difference is appearance.				
Product Description	:	Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz			
		Antenna Gain: 0.5dBi PCB Antenna				
Power Rating	2	Input: DC 5V/1.0A				
Software Version	:	V5.3				
Hardware Version	:	V1.4				
Connecting I/O Port(S)		Please refer to the User's Manual				
Remark	2	the evaluation report used the EUT(HC-C-202402-0072-02-01-2#).				

TB-RF-074-1.0



Method of Measurement for FCC

1. EUT Operation Condition:

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

2. Exposure Evaluation:

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

S=(PG)/4πR²

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

3. Simultaneous transmission MPE Considerations

According to KDB447498: All transmitters and antennas in the host must be either evaluated for MPE compliance, by measurement or computational modeling, or qualify for the standalone MPE test exclusion in section 7.1. Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modeled or measured field strengths or power density, is \leq 1.0. This means that:

 Σ of MPE ratios ≤ 1.0





4. Test Result:

2.4G WiFi Worst Maximum MPE Result								
Mode	Ντχ	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]
COB1		2412	17.68	17±1	18	0.5	20	0.01408
802.11b	802.11b 1	2437	17.78	17±1	18	0.5	20	0.01408
B		2462	16.85	16±1	17	0.5	20	0.01119
		2412	13.68	13±1	14	0.5	20	0.00561
802.11g	802.11g 1	2437	14.23	14±1	15	0.5	20	0.00706
E ST	2	2462	12.39	12±1	13	0.5	20	0.00445
802.11n (HT20) 1		2412	12.03	12±1	13	0.5	20	0.00445
	1	2437	12.45	12±1	13	0.5	20	0.00445
	2	2462	12.39	12±1	13	0.5	20	0.00445

Note:

NTX= Number of Transmit Antennas

RF Output power specifies that Maximum Conducted Peak Output Power.

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 2.4G WIFI: 2412~2462MHz MPE limit S: 1mW/ cm²

The worst MPE is calculated as **0.01408mW/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.

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

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

----END OF THE REPORT-----

