



Maximum Permissible Exposure Evaluation

FCC ID: 2BA4K-T1

1. Client Information

Applicant	:	Shenzhen Jinshoushi technology CO., LTD
Address	:	701, Shangshuijing Commercial Building, Jihua Road, Shuijing community, Jihua residential district, Longgang District, Shenzhen, China
Manufacturer	:	Dongguan Gangshanguanglian Electronic Technology CO., LTD
Address	:	Building B, Jinshan Industrial Zone, Changshantou, Qingxi Zhen, Dongguan, China

2. General Description of EUT

EUT Name	:	Compact wired indoor security camera	
Models No.	:	T1, T	
Model Different	:	All PCB boards and circuit diagrams are the same, the only difference is that appearance and Model name.	
Product Description	Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz	
	Number of Channel:	802.11b/g/n(HT20):11 channels	
	Antenna Gain:	2.7dBi FPC Antenna	
Power Rating	:	Adapter (CS-0501000) Input: 100-240V~ 50/60Hz 0.5A Max Output: 5V---1.0A	
Software Version	:	GSG-PT001_V1.1.1.31	
Hardware Version	:	GL-IPC004-V1.0	
Connecting I/O Port(S)	:	Please refer to the User's Manual	
Remark	:	the evaluation report used the EUT(TBR-C-202303-0093-3#).	

MPE Calculations for WIFI

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

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

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

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 ≤ 1.0 .

This means that:

Σ of MPE ratios ≤ 1.0

4. Test Result:

2.4G WiFi worst reported.

Mode	Frequency (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]	Limit of Power Density (mW/ cm ²) (S)
802.11b	2412	14.911	15±1	16	2.7	20	0.01475	1
	2437	13.014	13±1	14	2.7	20	0.00931	1
	2462	11.631	12±1	13	2.7	20	0.00739	1
802.11g	2412	9.868	10±1	11	2.7	20	0.00466	1
	2437	14.122	14±1	15	2.7	20	0.01172	1
	2462	12.173	12±1	13	2.7	20	0.00739	1
802.11n(HT20)	2412	9.859	10±1	11	2.7	20	0.00466	1
	2437	13.954	14±1	15	2.7	20	0.01172	1
	2462	12.019	12±1	13	2.7	20	0.00739	1



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 2.4WIFI:2412~2462 MHz

MPE limit S: 1mW/ cm²

The MPE is calculated as **0.01475 < 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.

6. Conclusion:

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

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

