

Report No.: TB-MPE155968

Page: 1 of 3

Maximum Permissible Exposure Evaluation

FCC ID: 2AEP6XM-JPF2-F4

1. Client Information

Applicant: HangZhou XiongMai Technology CO., LTD

Address: 9th Floor, Building 9, Yinhu Innovation Center, No.9 FuXian Road,

YinHu Street, Hangzhou, China

Manufacturer : HangZhou XiongMai Technology CO., LTD

Address: 9th Floor, Building 9, Yinhu Innovation Center, No.9 FuXian Road,

YinHu Street, Hangzhou, China

2. General Description of EUT

EUT Name	:	PANORAMIC UFO CAMERA				
Models No.	2	XM-JPF2-F4, XM-F5-F4, XM-F2-F4, XM-JPF5-F4, XM-F4-F2, XM-JPF4-F2				
Model Difference		All these models are identical in the same PCB layout and electrical circuit, the only difference is market positioning.				
Product Description		Operation Frequency: 802.11b/g/n(HT20): 2412MHz~2462l 802.11n(HT40): 2422MHz~2452MHz				
		Number of Channel: 802.11b/g/n(HT20):11 channels 802.11n(HT40):9 channels				
		RF Output Power:	802.11b: 17.92 dBm 802.11g: 17.32 dBm 802.11n (HT20): 15.98 dBm 802.11n (HT40): 14.95 dBm			
		Antenna Gain: 3.29 dBi PCB Antenna				
		Modulation Type: 802.11b: DSSS(CCK, DQPSK, DBPSK 802.11g/n:OFDM(BPSK,QPSK,16QAM 64QAM)				
		Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n:up to 150Mbps			
Power Rating	i					
Connecting I/O Port(S)	1	Please refer to the User's Manual				



Report No.: TB-MPE155968

Page: 2 of 3

MPE Calculations for WiFi

1. Antenna Gain:

Integral Antenna: 3.29dBi.

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]
		2412	17.92	17±1	18	3.29	20	0.0268
802.11b 1	1	2437	17.86	17±1	18	3.29	20	0.0268
	مناليا	2462	17.78	17±1	18	3.29	20	0.0268
		2412	17.25	17±1	18	3.29	20	0.0268
802.11g	1	2437	17.19	17±1	18	3.29	20	0.0268
	, G	2462	17.32	17±1	18	3.29	20	0.0268
000		2412	15.98	16±1	17	3.29	20	0.0213
802.11n (HT20)	1	2437	15.67	16±1	17	3.29	20	0.0213
(1120)		2462	15.85	16±1	17	3.29	20	0.0213
		2422	14.86	15±1	16	3.29	20	0.0169
802.11n (HT40)	1	2437	14.95	15±1	16	3.29	20	0.0169
		2452	14.69	15±1	16	3.29	20	0.0169

Note:

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

5. Conclusion:

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



Report No.: TB-MPE155968

Page: 3 of 3

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 0.0268mW / 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----