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Maximum Permissible Exposure Evaluation

FCC ID: 2AEP6XM-JPT2-R

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		DRUM CAMERA			
Models No.		XM-JPT2-R, XM-T2-R, XM-T2-F4, XM-T5-F4, XM-JPT2-F4, XM-JPT5-F4			
Model Difference		All models are identical in the same PCB layout interior structure and electrical circuits, The only difference is resolution and brand.			
THE ELECTRICAL PROPERTY.		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)		
Product		RF Output Power:	802.11b: 17.57dBm 802.11g: 17.57dBm 802.11n (HT20): 16.55dBm 802.11n (HT40): 15.42dBm		
Description		Antenna Gain:	3dBi Internal Antenna		
		Modulation Type:	802.11b: DSSS(CCK, QPSK, BPSK) 802.11g: OFDM 802.11n: OFDM		
		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 Supply	:				

TB-RF-075-1. 0

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Power Rating	: AC/DC Adapter (BT-TC-015):	- Elli
	Input: AC 100~240V 50/60Hz 0.3A	

Output: DC 5V, 1.5A. Please refer to the User's Manual Connecting I/O Port(S)

Note: More information about the RF function, please refer the RF test reports.

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MPE Calculations for WIFI

1. Antenna Gain:

Internal Antenna: 3dBi.

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	Tim	2412	16.78	17±1	18	3	20	0.0251
	1	2437	17.12	17±1	18	3	20	0.0251
	OB!	2462	17.57	17±1	18	3	20	0.0251
802.11g 1		2412	16.67	17±1	18	3	20	0.0251
	1	2437	17.35	17±1	18	3	20	0.0251
		2462	17.57	17±1	18	3	20	0.0251
802.11n (HT20)	1	2412	14.97	16±1.5	17.5	3	20	0.0223
	1	2437	16.02	16±1.5	17.5	3	20	0.0223
	11	2462	16.55	16±1.5	17.5	3	20	0.0223
802.11n (HT40)		2422	14.77	15±1	16	3	20	0.0158
	1	2437	15.05	15±1	16	3	20	0.0158
		2452	15.42	15±1	16	3	20	0.0158

Note:

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

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



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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: 1mW/ cm²

The MPE is calculated as 0.0251mW / 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----