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Maximum Permissible Exposure Evaluation

FCC ID: 2AEP6-JPLB1S-2

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		Smart LED Bulb 360 Camera			
Models No.		XM-JPLB1S-2, XM-LB1S-2, XM-LB1S-2S, XM-JPLB1S-2S, LB1S-2, LB1S-1, B13-L			
Model Difference		All models are identical in the same PCB layout interior structure and electrical circuits, The only difference is resolution and brand.			
Product Description		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)		
		RF Output Power:	802.11b: 17.81dBm 802.11g: 18.41dBm 802.11n (HT20): 17.24dBm 802.11n (HT40): 14.51dBm		
		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	:	Input: AC 100-240V 50/60Hz
Connecting I/O Port(S)	1000	Please refer to the User's Manual
Note: More information a	bout	t 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	PP	2412	16.63	17±1	18	3	20	0.0251
	1	2437	17.29	17±1	18	3	20	0.0251
	1111	2462	17.81	17±1	18	3	20	0.0251
802.11g 1		2412	17.27	18±1	19	3	20	0.0315
	1	2437	17.70	18±1	19	3	20	0.0315
		2462	18.41	18±1	19	3	20	0.0315
802.11n (HT20)	1	2412	16.04	17±1	18	3	20	0.0251
	1	2437	16.37	17±1	18	3	20	0.0251
	11/1	2462	17.24	17±1	18	3	20	0.0251
802.11n (HT40)	1	2422	13.99	14±1	15	3	20	0.0126
		2437	14.25	14±1	15	3	20	0.0126
		2452	14.51	14±1	15	3	20	0.0126

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 0.0315mW / 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-----