

# RF Exposure Evaluation

## FCC ID: 2AEP6XM-JPV1-1

### 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

<b>EUT Name</b>	:	Raindrop Camera
<b>Models No.</b>	:	XM-JPV1-1, XM-JPV1-1F, XM-JPV1-1R
<b>Model difference</b>	:	All models are identical in the same PCB layout, interior structure and electrical circuits, the only difference is model name for commercial purpose.
<b>Product Description</b>	:	Operation Frequency: 802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz
		Number of Channel: 802.11b/g/n(HT20):11channels 802.11n(HT40): 7 channels
	:	Max Peak Output Power: 802.11b: 8.65 dBm 802.11g: 8.39 dBm 802.11n (HT20): 8.64 dBm 802.11n (HT40): 8.24 dBm
		Antenna Gain: 2 dBi PCB Antenna
		Modulation Type: 802.11b: CCK, DQPSK, DBPSK 802.11g: 64-QAM,QPSK,BPSK 802.11n: 64-QAM,16-QAM,QPSK,BPSK
<b>Power Supply</b>	:	DC Voltage supplied from AC/DC adapter
<b>Power Rating</b>	:	AC/DC Adapter: Input: AC 100~240V, 50/60 Hz, 150mA Output: DC 5V 1000mA
<b>Connecting I/O Port(S)</b>	:	Please refer to the User's Manual

#### Note:

More test information about the EUT please refer the RF Test Report.



## SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v05r02.

- (1) Clause 4.3: General SAR test reduction and exclusion guidance

- Sub clause 4.31: Standalone SAR test exclusion considerations

- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance  $\leq 5$  mm are determined by:

- [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)] \*  $[\sqrt{f_{\text{GHz}}}] \leq 3.0$  for 1-g SAR

- [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)] \*  $[\sqrt{f_{\text{GHz}}}] \leq 7.5.0$  for 10-g SAR

## 2.

## Calculation:

Test separation: 5mm					
802.11b					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	8.53	$\pm 0.5$	7.998	2.484	3.0
2.437	8.39	$\pm 0.5$	7.745	2.418	3.0
2.462	8.65	$\pm 0.5$	8.222	2.580	3.0
802.11g					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	8.39	$\pm 0.5$	7.745	2.406	3.0
2.437	7.82	$\pm 0.5$	6.792	2.121	3.0
2.462	8.24	$\pm 0.5$	7.482	2.348	3.0
802.11n(HT20)					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	8.64	$\pm 0.5$	8.204	2.548	3.0
2.437	8.11	$\pm 0.5$	7.261	2.267	3.0
2.462	8.07	$\pm 0.5$	7.194	2.258	3.0
802.11n(HT40)					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.422	8.24	$\pm 0.5$	7.482	2.329	3.0
2.437	7.83	$\pm 0.5$	6.808	2.125	3.0
2.452	7.67	$\pm 0.5$	6.561	2.055	3.0

So standalone SAR measurements are not required.