

# Maximum Permissible Exposure report

For

Jovision Technology Co.,Ltd.

Floor11,Building D,In-hi Tech Square,No.2008 Xinluo Street,Jinan,Shandong,China

**FCC ID:2AEW9JVS-H411**



Trade:

This Report Concerns: Original Report	Equipment Type: IP CAMERA With WIFI
Test Engineer:	Lisa Chen <i>Lisa Chen</i>
Report No.:	BSL20150628-6
Receive EUT Date/Test Date:	June 9, 2015/ June 9 - June 19, 2015
Reviewed By:	Mike Moo <i>Mike Moo</i>
Prepared By:	<b>BSL Testing Co.,LTD.</b> NO. 24, ZH Park, Nantou, Shenzhen, 518000 China Tel: 86- 755-26508703 Fax: 86- 755-26508703

## 1.§ 15.247 (i) and §1.1307 (b) (1) – Maximum Permissible exposure (MPE)

### 1.1 Standard Applicable

According to subpart 15.247 (i) and subpart 1.1307 (b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Averaging Time (minute)
<b>Limits for General Population/Uncontrolled Exposure</b>				
0.3–3.0	614	1.63	*(100)	30
3.0–30	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30–300	27.5	0.073	0.2	30
300–1500	/	/	f/1500	30
1500–100,000	/	/	1.0	30

f = frequency in MHz

\* = Plane-wave equivalent power density

### 1.2 Test Data

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

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

S: Power density, in mW/cm<sup>2</sup>

P: Power input to the antenna, in mW

G: numeric gain of the antenna

R: distance to the center of the antenna, in cm

### 802.11b Mode

Maximum AV output power at antenna input terminal (dBm):	<u>9.15</u>
Maximum AV output power at antenna input terminal (mW):	<u>8.22</u>
Prediction distance (cm):	<u>20</u>
Prediction frequency (MHz):	<u>2462</u>
Antenna Gain, typical (dBi):	<u>0</u>
Maximum Antenna Gain (numeric):	<u>1</u>
Power density at predication frequency and distance (mW/cm <sup>2</sup> ):	<u>0.00164</u>
MPE limit for the predication frequency (mW/cm <sup>2</sup> ):	<u>1.0</u>

### 802.11g Mode

Maximum AV output power at antenna input terminal (dBm):	<u>9.55</u>
Maximum AV output power at antenna input terminal (mW):	<u>9.016</u>
Prediction distance (cm):	<u>20</u>
Prediction frequency (MHz):	<u>2437</u>
Antenna Gain, typical (dBi):	<u>0</u>
Maximum Antenna Gain (numeric):	<u>1</u>
Power density at predication frequency and distance (mW/cm <sup>2</sup> ):	<u>0.00179</u>
MPE limit for the predication frequency (mW/cm <sup>2</sup> ):	<u>1.0</u>

### 802.11n Mode

Maximum AV output power at antenna input terminal (dBm):	<u>9.34</u>
Maximum AV output power at antenna input terminal (mW):	<u>8.59</u>
Prediction distance (cm):	<u>20</u>
Prediction frequency (MHz):	<u>2412</u>
Antenna Gain, typical (dBi):	<u>0</u>
Maximum Antenna Gain (numeric):	<u>1</u>
Power density at predication frequency and distance (mW/cm <sup>2</sup> ):	<u>0.00171</u>
MPE limit for the predication frequency (mW/cm <sup>2</sup> ):	<u>1.0</u>

## 1.3 Test Result

The device is compliant with the requirement MPE limit of General Population/Uncontrolled Exposure at predication frequency 1.0 mW/cm<sup>2</sup> .And the precaution is outlined in the user's manual to prevent to high level of RF energy.