

1 Cover Page

# RF Exposure Evaluation Report

**Application No.:** KSCR2109000107AT  
**FCC ID:** 2ADTD-CP03006401212  
**Applicant:** Hangzhou Hikvision Digital Technology Co., Ltd.  
**Address of Applicant:** No.555 Qianmo Road, Binjiang District Hangzhou 310052, China  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
**Address of Manufacturer:** No.555 Qianmo Road, Binjiang District Hangzhou 310052, China  
**Factory:** 1. Hangzhou Hikvision Technology Co., Ltd.  
 2. Hangzhou Hikvision Electronics Co., Ltd.  
 3. CHONGQING HIKVISION TECHNOLOGY CO., LTD.  
**Address of Factory:** 1. No.700, Dongliu Road, Binjiang District, Hangzhou City, Zhejiang, 310052, China  
 2. No.299, Qiushi Road, Tonglu Economic Development Zone, Tonglu County, Hangzhou, Zhejiang, 310052, China.  
 3. Building 18, Louyu Area, C area, Jianqiao industrial park, Chongqing.  
**Equipment Under Test (EUT):**  
**EUT Name:** AX PRO  
**Model No.:** DS-PWA64-L-WA  
**Add Model No.:** DS-PWA64-L-WAUHK, DS-PWA64-L-WACKV, DS-PWA64-L-WAUVS, DS-PWA64-L-WAKVO, DS-PWA64-L-WAHUN  
**Standard(s) :** FCC Rules 47 CFR §2.1091  
 KDB447498 D01 General RF Exposure Guidance v06  
**Date of Receipt:** 2021-09-27  
**Date of Test:** 2021-10-02 to 2021-10-15  
**Date of Issue:** 2021-10-18

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Eric Lin  
Laboratory Manager

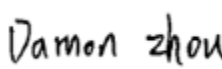
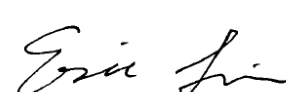
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Revision Record			
Version	Description	Date	Remark
00	Original	2021-10-18	/

Authorized for issue by:		 <hr/> Damon Zhou / Project Engineer		
		 <hr/> Eric Lin / Reviewer		



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### 3 General Information

#### 3.1 General Description of E.U.T.

Power supply:	AC 100~240V 50/60Hz + DC 3.8V by Rechargeable li-ion Polymer Battery Battery Model: 765965 Capacity: 4520mAh/17.176Wh
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#### 3.2 Technical Specifications

##### 912.5MHz ~ 917.4MHz

Operation Frequency:	912.5MHz ~ 917.4MHz
Spectrum Spread:	Frequency Hopping Spread Spectrum (FHSS)
Number of Channels:	50
Channel Spacing:	100kHz
Modulation Type:	FSK
Antenna Gain:	Antenna 1:2dBi (Provided by manufacturer) Antenna 1:2dBi (Provided by manufacturer)
Antenna Type:	PCB Layout Antenna

##### 2.4G Wi-Fi

Antenna Gain:	Ant 1: 2.1dBi (Provided by manufacturer) Ant 2: 2.4dBi (Provided by manufacturer) Directional gain:5.26dBi
Channel Spacing:	5MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11 802.11n(HT40):7
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz 802.11n(HT40): 2422MHz to 2452MHz
Antenna Type:	PCB Layout Antenna

##### 920MHz

Antenna Gain:	Ant 1: 3.45dBi (Provided by manufacturer) Ant 2: 3.45dBi (Provided by manufacturer)
Antenna Type:	PCB Layout Antenna
Modulation Type:	FSK
Operation Frequency:	920MHz
Channel Number:	1

##### GSM/GPRS Module

Support Band:	GSM850/PCS1900
GPRS Class:	12
Tx Frequency Range:	GSM 850: 824.2MHz to 848.8MHz PCS 1900: 1850.2MHz to 1909.8MHz
Rx Frequency Range:	GSM 850: 869.2MHz to 893.8MHz PCS 1900: 1930.2MHz to 1989.8MHz
Type of modulation:	GMSK for GSM/GPRS
Antenna Type:	PCB Antenna



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Antenna Peak Gain:	GSM 850:0.5dBi PCS 1900: 0.5dBi
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### 3.3 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

### 3.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L4354)**

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 2541.01)**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

- **FCC (Designation Number: CN1172)**

Compliance Certification Services Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

- **ISED (CAB Identifier: CN0072)**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development (ISED) Canada as an accredited testing laboratory.

CAB Identifier: CN0072.

- **VCCI (Member No.: 1938)**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600,C-11707, T-11499, G-10216 respectively.



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## 4 Test Standards and Limits

### 4.1 FCC Radiofrequency radiation exposure limits:

According to §1.1310, the limit for general population/uncontrolled exposures

Frequency	Power density(mW/cm <sup>2</sup> )	Averaging time(minutes)
300MHz~1.5GHz	f/1500	30
1.5GHz~100GHz	1.0	30



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## 5 Measurement and Calculation

### 5.1 Maximum transmit power

The Power Data is based on the RF Test Report KSCR210900010701(912.5MHz ~ 917.4MHz), KSCR210900010702(2.4GHz Wi-Fi), KSCR21090010703(920MHz) and UL15820150209FCC041-1(GSM/GPRS Module).

#### 912.5MHz ~ 917.4MHz

Test Mode	Channel	Antenna Power[dBm]	Antenna Power[mW]
FSK	912.5MHz	11.46	14.00
	917.4 MHz	11.46	14.00

#### 2.4G Wi-Fi

Test Mode	Channel	Antenna 1 Power[dBm]	Antenna 2 Power[dBm]	MIMO Power[dBm]	Antenna 1 Power[mW]	Antenna 2 Power[mW]	MIMO Power[mW]
11B	2412	17.90	16.96	NA	61.66	49.66	N/A
11B	2437	17.88	17.64	NA	61.38	58.08	N/A
11B	2462	17.66	17.96	NA	58.34	<b>62.52</b>	N/A
11G	2412	18.11	17.29	NA	<b>64.71</b>	53.58	N/A
11G	2437	17.67	17.62	NA	58.48	57.81	N/A
11G	2462	17.45	17.92	NA	55.59	61.94	N/A
11N20MIMO	2412	14.14	13.79	16.98	25.94	23.93	49.89
11N20MIMO	2437	14.21	14.67	17.46	26.36	29.31	55.72
11N20MIMO	2462	14.02	14.96	17.53	25.23	31.33	<b>56.62</b>
11N40MIMO	2422	13.69	14.01	16.86	23.39	25.18	48.53
11N40MIMO	2437	14.05	14.23	17.15	25.41	26.49	51.88
11N40MIMO	2452	13.96	14.42	17.21	24.89	27.67	52.60

#### 920MHz

Test Mode	Channel	Level (dBuV/m)	Power [dBm]	Power [mW]
FSK	920 MHz	91.44	-3.76	0.4207

$$EIRP[dBm] = E[dB\mu V/m] + 20 \log(d[meters]) - 104.77$$

$$EIRP[dBm] = E[dB\mu V/m] - 95.2$$

$$= 91.44 \text{ dB}\mu V/m - 95.2$$

$$= -3.76 \text{ dBm} = 0.4207 \text{ mW}$$



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## 5.2 MPE Calculation

For WiFi:

According to the formula  $S=P/4\pi R^2$ , we can calculate S which is MPE.

Note:

- 1) P (mW)
- 2) R = distance to the center of radiation of antenna (in meter) = 20cm
- 3) For 912.5MHz ~ 917.4MHz, MPE limit = 912.5MHz / 1500 = 0.608mW/cm<sup>2</sup>.

For 2.4GHz Wi-Fi, MPE limit = 1mW/cm<sup>2</sup>

For 920MHz, MPE limit = 920/1500 = 0.613mW/cm<sup>2</sup>

### For 912.5MHz ~ 917.4MHz

The max. antenna gain is 2 dBi

Max. Conducted Power P(mW)	Gain in Linear Scale G	Operation Distance R(cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Result
14.00	1.585	20	0.00441	0.608	Pass

### For 2.4G Wi-Fi - Antenna1:

The max. antenna gain is 2.1 dBi

Max. Conducted Power P(mW)	Gain in Linear Scale G	Operation Distance R(cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Result
64.71	1.622	20	0.02088	1	Pass

### For 2.4G Wi-Fi - Antenna2:

The max. antenna gain is 2.4 dBi

Max. Conducted Power P(mW)	Gain in Linear Scale G	Operation Distance R(cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Result
62.52	1.738	20	0.02161	1	Pass

### In MIMO mode:

The max. antenna gain is 5.26 dBi

Max. Conducted Power P(mW)	Gain in Linear Scale G	Operation Distance R(cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Result
56.62	3.357	20	0.03782	1	Pass



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**For 920MHz**

$$S = \frac{PG}{4R^2\pi} = \frac{0.4207}{4 \times 400 \times 3.14} = 0.000084 \text{ mW/cm}^2 < 0.613 \text{ mW/cm}^2$$

**GSM/GPRS Module**

Refer to UL15820150209FCC041 RF Exposure Report

Test Mode	Antenna Gain (dBi)	Max Tune-up tolerance power(dBm)	Average Power (dBm)	Average EIRP (dBm)	Average EIRP (mW)	Result of Power Density S at 20cm (mW/m <sup>2</sup> )	Limit of Power Density S (mW/m <sup>2</sup> )
GSM 850 (1Tx slot)	0.5	35.00	26	26.5	446.68	0.09	0.55
GSM 1900 (1Tx slot)	0.5	32.00	23	23.5	223.87	0.04	1.00

The averaged power calculated method are shown as below:  
 Averaged power=Maximum burst averaged power (1 Tx Slot)+(10lg(1/8))dB  
 Averaged power=Maximum burst averaged power (2 Tx Slot)+(10lg(2/8))dB  
 Averaged power=Maximum burst averaged power (3 Tx Slot)+(10lg(3/8))dB  
 Averaged power=Maximum burst averaged power (4 Tx Slot) + (10lg(4/8))dB  
 Average EIRP Power=Average Power + Antenna Gain.

Simultaneous transmission MPE test is not required, because the Max. sum of the MPE ratios for 912.5MHz~917.4MHz, 2.4GHz Wi-Fi, 920MHz and GSM/GPRS is 0.00441/0.608 + 0.03782/1 + 0.000084/0.613 + 0.09/0.55 = 0.209 < 1

according to the KDB447498 section 7.2 determine the device is exclusion from SAR test

**--End of the Report--**



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No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300  
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

t(86-512)57355888 f(86-512)57370818 www.sgs.com.cn  
 t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com