

1 Cover Page

RF Exposure Evaluation Report

Application No.: KSCR2112000378AT
FCC ID: 2ADTD-CP03009601220
Applicant: Hangzhou Hikvision Digital Technology Co.,Ltd.
Address of Applicant: No. 555, Qianmo Road, Binjiang District, Hangzhou
Manufacturer: Hangzhou Hikvision Digital Technology Co.,Ltd.
Address of Manufacturer: No. 555, Qianmo Road, Binjiang District, Hangzhou
Factory: 1. Hangzhou Hikvision Electronics Co., Ltd.
 2. Hangzhou Hikvision Technology Co., Ltd.
 3. CHONGQING HIKVISION TECHNOLOGY CO.,LTD.
 1.No.299,Qiushi Road,Tonglu Economic Development Zone,Tonglu County, Hangzhou,Zhejiang
Address of Factory: 2.No.700 Dongliu Road, Binjiang District, Hangzhou 310052, China
 3.No.118, Haikang Road, Area C, Jianqiao Industrial Park, Dadukou District, Chongqing, 401325,China
Equipment Under Test (EUT):
EUT Name: AX PRO
Model No.: DS-PWA96-M2-WA,DS-PWA96-M2-WAUHK,DS-PWA96-M2-WACKV, DS-PWA96-M2-WAUVS,DS-PWA96-M2-WAKVO, DS-PWA96-M2-WAHUN
Trade mark: HIKVISION
Standard(s) : FCC Rules 47 CFR §2.1091
Date of Receipt: 2021-12-23
Date of Test: 2022-01-06 to 2022-01-26
Date of Issue: 2022-01-26

| | |
|---------------------|--------------|
| Test Result: | Pass* |
|---------------------|--------------|

* 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 | 2022-01-26 | / |
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| Authorized for issue by: | | | |
| | | <i>Damon Zhou</i> | |
| | | <hr/> | |
| | | Damon Zhou / Project Engineer | |
| | | <i>Eric Lin</i> | |
| | | <hr/> | |
| | | Eric Lin / Reviewer | |



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EMC Laboratory

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3 General Information

3.1 General Description of E.U.T.

| | |
|---------------|---------------------|
| Power supply: | AC 100~240V 50/60Hz |
|---------------|---------------------|

3.2 Technical Specifications

915MHz

| | |
|----------------------|---|
| Operation Frequency: | 912.5MHz ~ 917.4MHz |
| Number of Channels: | 50 |
| Channel Spacing: | 100kHz |
| Modulation Type: | FSK |
| Spectrum Spread: | Frequency Hopping Spread Spectrum (FHSS) |
| Antenna Gain: | Ant1: 3.30dBi (Provided by manufacturer) Ant2: -0.39dBi (Provided by manufacturer) |
| Antenna Type: | Ant1: PCB Antenna Ant2: PCB Antenna |

920MHz

| | |
|----------------------|---|
| Antenna Gain: | Ant1: 3.30dBi (Provided by manufacturer) Ant2: -0.39dBi (Provided by manufacturer) |
| Antenna Type: | Ant1: PCB Antenna Ant2: PCB Antenna |
| Modulation Type: | FSK |
| Operation Frequency: | 920MHz |
| Channel Number: | 1 |

2.4GHz

| | |
|----------------------|--|
| Antenna Gain: | Ant1: 2.04dBi (Provided by manufacturer) Ant2: 3.51dBi (Provided by manufacturer) Directional gain:5.85dBi |
| Antenna Type: | Ant1: PCB Antenna Ant2: PCB Antenna |
| Channel Spacing: | 5MHz |
| Modulation Type: | 802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK) |
| Data Rate: | 802.11b:1/2/5.5/11Mbps 802.11g:6/9/12/18/24/36/48/54Mbps 802.11n:MCS0-MCS7 |
| 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 |



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4G

| | |
|-------------------------------|--|
| LTE Operation Frequency Band: | LTE Band 2,4,5,12,13,14,25,26,41,66,71 |
| Modulation Type: | QPSK, 16QAM |
| Antenna Type: | LDS |
| Antenna Gain: | Band 2:-2.51dBi Band 4: -2.94dBi Band 5: -2.51dBi Band 12:-6.76 dBi Band 13: -4.48dBi Band 14:-2.81 dBi Band 25: -2.51dBi Band 26: -2.51dBi Band 41: -2.08dBi Band 66: -2.7dBi Band 71: -6.91dBi |



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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 Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E

• **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 ²) | 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 KSCR211200037801, KSCR211200037802, KSCR211200037803

915MHz

| Test Mode | Channel | Antenna 1 | | Antenna 2 | |
|-----------|---------|--------------------|-------------------|--------------------|-------------------|
| | | Antenna Power[dBm] | Antenna Power[mW] | Antenna Power[dBm] | Antenna Power[mW] |
| FSK | 912.5 | -2.66 | 0.54 | -2.07 | 0.62 |
| | 915.0 | -2.72 | 0.53 | -2.13 | 0.61 |
| | 917.4 | -2.80 | 0.52 | -2.17 | 0.61 |

2.4GHz

| 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 | 14.39 | 14.34 | NA | 27.48 | 27.16 | N/A |
| 11B | 2437 | 14.54 | 14.53 | NA | 28.44 | 28.38 | N/A |
| 11B | 2462 | 14.81 | 15.15 | NA | 30.27 | 32.73 | N/A |
| 11G | 2412 | 14.29 | 14.22 | NA | 26.85 | 26.42 | N/A |
| 11G | 2437 | 14.58 | 14.55 | NA | 28.71 | 28.51 | N/A |
| 11G | 2462 | 14.45 | 14.26 | NA | 27.86 | 26.67 | N/A |
| 11N20SISO | 2412 | 11.29 | 11.31 | 14.31 | 13.46 | 13.52 | 26.98 |
| 11N20SISO | 2437 | 11.62 | 11.60 | 14.62 | 14.52 | 14.45 | 28.97 |
| 11N20SISO | 2462 | 11.52 | 11.53 | 14.54 | 14.19 | 14.22 | 28.44 |
| 11N40SISO | 2422 | 11.27 | 11.30 | 14.30 | 13.40 | 13.49 | 26.92 |
| 11N40SISO | 2437 | 11.36 | 11.38 | 14.38 | 13.68 | 13.74 | 27.42 |
| 11N40SISO | 2452 | 10.98 | 10.94 | 13.97 | 12.53 | 12.42 | 24.95 |



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920MHz

| Test Mode | Channel | Antenna 1 | | Antenna 2 | |
|-----------|---------|--------------------|-------------------|--------------------|-------------------|
| | | Antenna Power[dBm] | Antenna Power[mW] | Antenna Power[dBm] | Antenna Power[mW] |
| FSK | 920 | -9.20 | 0.120 | -9.38 | 0.115 |

$$EIRP[dBm] = E[dB\mu V/m] + 20 \log(d[meters]) - 104.77, d=3m$$

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



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5.2 MPE Calculation

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: $912.5\text{MHz} / 1500 = 0.608\text{mW}/\text{cm}^2$
- 4) For 2.4GHz, MPE limit = $1\text{mW}/\text{cm}^2$
- 5) For 920MHz, MPE limit = $920/1500 = 0.613\text{mW}/\text{cm}^2$
- 6) For LTE B2, MPE limit = $1\text{mW}/\text{cm}^2$, LTE B4, MPE limit = $1\text{mW}/\text{cm}^2$,
 LTE B5, MPE limit = $0.57\text{mW}/\text{cm}^2$, LTE B12 MPE limit = $0.48\text{mW}/\text{cm}^2$,
 LTE B13, MPE limit = $0.52\text{mW}/\text{cm}^2$, LTE B14, MPE limit = $1\text{mW}/\text{cm}^2$,
 LTE B25, MPE limit = $1\text{mW}/\text{cm}^2$, LTE B26, MPE limit = $0.57\text{mW}/\text{cm}^2$,
 LTE B26 (Part 90), MPE limit = $0.57\text{mW}/\text{cm}^2$, LTE B41, MPE limit = $1\text{mW}/\text{cm}^2$,
 LTE B66, MPE limit = $1\text{mW}/\text{cm}^2$, LTE B71, MPE limit = $1\text{mW}/\text{cm}^2$

For 2.4G WiFi –Antenna1:

| The max. antenna gain is | | 2.04 | dBi | | |
|----------------------------|------------------------|--------------------------|-------------------------------------|-----------------------------|--------|
| Max. Conducted Power P(mW) | Gain in Linear Scale G | Operation Distance R(cm) | Power Density (mW/cm ²) | Limit (mW/cm ²) | Result |
| 30.27 | 1.600 | 20 | 0.00963 | 1 | Pass |

For 2.4G WiFi –Antenna2:

| The max. antenna gain is | | 3.51 | dBi | | |
|----------------------------|------------------------|--------------------------|-------------------------------------|-----------------------------|--------|
| Max. Conducted Power P(mW) | Gain in Linear Scale G | Operation Distance R(cm) | Power Density (mW/cm ²) | Limit (mW/cm ²) | Result |
| 32.73 | 2.244 | 20 | 0.01461 | 1 | Pass |

In MIMO mode:

| The max. antenna gain is | | 5.85 | dBi | | |
|----------------------------|------------------------|--------------------------|-------------------------------------|-----------------------------|--------|
| Max. Conducted Power P(mW) | Gain in Linear Scale G | Operation Distance R(cm) | Power Density (mW/cm ²) | Limit (mW/cm ²) | Result |
| 28.97 | 3.846 | 20 | 0.02217 | 1 | Pass |



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For 915MHz –Antenna1:

| The max. antenna gain is | | 3.3 | dBi | | |
|----------------------------|------------------------|--------------------------|-------------------------------------|-----------------------------|--------|
| Max. Conducted Power P(mW) | Gain in Linear Scale G | Operation Distance R(cm) | Power Density (mW/cm ²) | Limit (mW/cm ²) | Result |
| 0.54 | 2.138 | 20 | 0.00023 | 0.608 | Pass |

For 915MHz–Antenna2:

| The max. antenna gain is | | -0.39 | dBi | | |
|----------------------------|------------------------|--------------------------|-------------------------------------|-----------------------------|--------|
| Max. Conducted Power P(mW) | Gain in Linear Scale G | Operation Distance R(cm) | Power Density (mW/cm ²) | Limit (mW/cm ²) | Result |
| 0.62 | 0.914 | 20 | 0.00011 | 0.608 | Pass |

For 920MHz –Antenna1:

$$S = \frac{PG}{4R^2\pi} = \frac{0.120}{4 \times 400 \times 3.14} = 0.000024 \text{ mW/cm}^2 < 0.613 \text{ mW/cm}^2$$

For 920MHz –Antenna2:

$$S = \frac{PG}{4R^2\pi} = \frac{0.115}{4 \times 400 \times 3.14} = 0.000023 \text{ mW/cm}^2 < 0.613 \text{ mW/cm}^2$$



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For LTE

Power data based on report No. STS2006195W01.

| Band Information | Antenna Gain (dBi) | Gain in Linear Scale G | Operation Distance R(cm) | Max Tune-up power (dBm) | Max Tune-up power (mW) | Power Density (mW/cm ²) | Limit (mW/cm ²) | Result |
|-----------------------|--------------------|------------------------|--------------------------|-------------------------|------------------------|-------------------------------------|-----------------------------|--------|
| LTE Band 2 | -2.51 | 0.56 | 20 | 23 | 199.53 | 0.022 | 1.00 | Pass |
| LTE Band 4 | -2.94 | 0.51 | 20 | 23 | 199.53 | 0.020 | 1.00 | Pass |
| LTE Band 5 | -2.51 | 0.56 | 20 | 25 | 316.23 | 0.035 | 0.57 | Pass |
| LTE Band 12 | -6.76 | 0.21 | 20 | 24 | 251.19 | 0.011 | 0.48 | Pass |
| LTE Band 13 | -4.48 | 0.36 | 20 | 23 | 199.53 | 0.014 | 0.52 | Pass |
| LTE Band 14 | -2.81 | 0.52 | 20 | 22 | 158.49 | 0.017 | 1.00 | Pass |
| LTE Band 25 | -2.51 | 0.56 | 20 | 23 | 199.53 | 0.022 | 1.00 | Pass |
| LTE Band 26 | -2.51 | 0.56 | 20 | 25 | 316.23 | 0.035 | 0.57 | Pass |
| LTE Band 26 (Part 90) | -2.51 | 0.56 | 20 | 25 | 316.23 | 0.035 | 0.57 | Pass |
| LTE Band 41 | -2.08 | 0.62 | 20 | 25 | 316.23 | 0.039 | 1.00 | Pass |
| LTE Band 66 | 2.7 | 1.86 | 20 | 23 | 199.53 | 0.074 | 1.00 | Pass |
| LTE Band 71 | -6.91 | 0.20 | 20 | 22 | 158.49 | 0.006 | 1.00 | Pass |

The WiFi&915MHz&920MHz<E function can simultaneous transmitting.so the maximum rate of MPE $0.022/1.0+0.00023/0.608+0.000024/0.613+0.074/1=0.096 \leq 1.0$.

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

--End of the Report--



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