

IBC MRA

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Report No.: SZEM190101019302

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## **RF Exposure Evaluation Report**

Application No.: SZEM1901010193CR

Applicant: SHENZHEN LOFTYNN INTELLIGENCE CO., LTD.

Address of Applicant: Bldg. One No.88 Baishisha Longwangmiao Industrial Fu Yong Baoan

Shenzhen 518103, China P.R.C

Manufacturer: EXVISION INDUSTRIES LIMITED

Address of Manufacturer: 3/F,No.65,Gongye 6th Road,Longyan,Humen Dongguan,523925 China,P.R.C

Factory: EXVISION INDUSTRIES LIMITED

Address of Factory: 3/F,No.65,Gongye 6th Road,Longyan,Humen Dongguan,523925 China,P.R.C

**Equipment Under Test (EUT):** 

Product Name: Baby Monitor
Model No.: HD950T
Trade mark: AXVUE

FCC ID: 2AJD6-HD950T

**Standards:** 47 CFR Part 1.1307 (2016)

47 CFR Part 1.1310 (2016)

**Date of Receipt:** 2019-01-08

**Date of Test:** 2019-01-16 to 2019-01-21

**Date of Issue:** 2019-02-11

Test Result : PASS\*



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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### 2 Version

| Revision Record |         |            |          |          |  |
|-----------------|---------|------------|----------|----------|--|
| Version         | Chapter | Date       | Modifier | Remark   |  |
| 01              |         | 2019-02-11 |          | Original |  |
|                 |         |            |          |          |  |
|                 |         |            |          |          |  |

| Authorized for issue by: |                          |   |
|--------------------------|--------------------------|---|
|                          | leo. 61                  |   |
|                          | Leo Li /Project Engineer | - |
|                          | EvicFu                   |   |
|                          | Eric Fu /Reviewer        | - |



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### 4 General Information

## 4.1 General Description of EUT

| Power supply:        | DC 7.5V                         |  |
|----------------------|---------------------------------|--|
|                      | Adapter Model:P6 0750500        |  |
|                      | Input:AC 100~240V 50/60Hz 250mA |  |
|                      | Output:DC 7.5V 500mA            |  |
| Cable:               | DC cable: 195cm unshielded      |  |
| Operation Frequency: | 2410-2477MHz                    |  |
| Modulation Type:     | GFSK                            |  |
| Number of Channels:  | 20                              |  |
| Antenna Type:        | PIFA Antenna                    |  |
| Antenna Gain:        | 0dBi                            |  |

#### **Channel lists:**

| Onamio note | <b>.</b>  |        |           |        |           |
|-------------|-----------|--------|-----------|--------|-----------|
| Ch No.      | Frequency | Ch No. | Frequency | Ch No. | Frequency |
| 1           | 2410      | 8      | 2434.5    | 15     | 2459      |
| 2           | 2413.5    | 9      | 2438      | 16     | 2462.5    |
| 3           | 2417      | 10     | 2441.5    | 17     | 2466      |
| 4           | 2420.5    | 11     | 2445      | 18     | 2469.5    |
| 5           | 2424      | 12     | 2448.5    | 19     | 2473      |
| 6           | 2427.5    | 13     | 2452      | 20     | 2477      |
| 7           | 2431      | 14     | 2455.5    |        |           |



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#### 4.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

### 4.3 Test Facility

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

#### · CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 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. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

#### · VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

#### • FCC -Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

#### Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.



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#### 4.4 Deviation from Standards

None

#### 4.5 Abnormalities from Standard Conditions

None.

### 4.6 Other Information Requested by the Customer

None



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### 5 RF Exposure Evaluation

### 5.1 RF Exposure Compliance Requirement

#### **5.1.1 Limits**

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

Table 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

| Frequency range<br>(MHz)                                  | Electric field<br>strength<br>(V/m) | Magnetic field<br>strength<br>(A/m) | Power density<br>(mW/cm²)                   | Averaging time (minutes)   |  |  |  |
|---|-------------------------------------|-------------------------------------|---|----------------------------|--|--|--|
| (A) Limits for Occupational/Controlled Exposures          |                                     |                                     |   |                            |  |  |  |
| 0.3–3.0<br>3.0–30<br>30–300<br>300–1500<br>1500–100,000   | 614<br>1842/f<br>61.4               | 1.63<br>4.89/f<br>0.163             | *(100)<br>*(900/f²)<br>1.0<br>f/300<br>5    | 6<br>6<br>6<br>6           |  |  |  |
| (B) Limits for General Population/Uncontrolled Exposure   |                                     |                                     |   |                            |  |  |  |
| 0.3–1.34<br>1.34–30<br>30–300<br>300–1500<br>1500–100,000 | 614<br>824/f<br>27.5                | 1.63<br>2.19/f<br>0.073             | *(100)<br>*(180/f²)<br>0.2<br>f/1500<br>1.0 | 30<br>30<br>30<br>30<br>30 |  |  |  |

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout\*G)/(4\*Pi\*R2)

Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

#### 5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.



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#### 4.1.3 EUT RF Exposure Evaluation

Antenna Gain: 0dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.00 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

| Channel | Frequency | Max Conducted                      | Output Power | Power Density         | Limit | Result |
|---------|-----------|------------------------------------|--------------|-----------------------|-------|--------|
|         | (MHz)     | Peak Output                        | to Antenna   | at R = 20 cm          |       |        |
|         |           | Power                              | (mW)         | (mW/cm <sup>2</sup> ) |       |        |
|         |           | (including Tune-up tolerance)(dBm) |              |                       |       |        |
| Lowest  | 2410      | 13.94                              | 24.77        | 0.005                 | 1.0   | PASS   |

Note: Refer to report No. SZEM190101019301 for EUT test Max Conducted Peak Output Power value. The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

- End of the Report -



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