

## 1 Cover Page

# ***RF Exposure Evaluation Report***

**Application No.:** SHEM1906014567CR  
**FCC ID:** 2APV2-CSK3A  
**IC:** 23928-CSK3A  
**Applicant:** Hangzhou Ezviz Software Co., Ltd.  
**Address of Applicant:** Floor 16, Unit B, Building 1, No. 555, Qianmo Road, Binjiang District, Hangzhou City, Zhejiang Province  
**Manufacturer:** Hangzhou Ezviz Software Co., Ltd.  
**Address of Manufacturer:** Floor 16, Unit B, Building 1, No. 555, Qianmo Road, Binjiang District, Hangzhou City, Zhejiang Province  
**Factory:** Hangzhou Hikvision Electronics Co., Ltd.  
**Address of Factory:** No. 299, Qiushi Road, Tonglu Economic Development Zone, Tonglu County, Hangzhou.

### Equipment Under Test (EUT):

**EUT Name:** Smart Wireless Alarm Panel  
**Model No.:** CS-K3-A  
**Add Model No.:** CS-K3-C  
**Trade mark:** eZVIZ  
**Standard(s) :** RSS-102 Issue 5 (March 2015)  
**Date of Receipt:** 2019-06-25  
**Date of Test:** 2019-06-26 to 2019-07-01  
**Date of Issue:** 2019-08-07

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

*Parlam Zhan*

Parlam Zhan  
E&E Section Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.


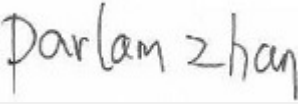


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Revision Record			
Version	Description	Date	Remark
00	Original	2019-08-07	/

<b>Authorized for issue by:</b>			
			
		<hr/>	
		<b>Vincent Zhu / Project Engineer</b>	
			
		<hr/>	
		<b>Parlam Zhan /Reviewer</b>	



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### 3 General Information

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

Power supply:	DC 5V by adapter Adapter: Model.:ADS-5RE-06 05050EPCU/EPC Input:100~240V~50/60Hz 150mA Battery: Rechargeable Li-ion battery 3.7V 2000mAh
Test voltage:	AC 120V 60Hz
Cable:	DC Cable 1.5m for adapter

#### 3.2 Details of E.U.T.

Antenna Type	PCB Antenna
Modulation Type	FSK
Number of Channels	1
Operation Frequency	915MHz
Antenna Gain:	-1dBi

### 3.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shanghai Branch  
588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China.

Tel: +86 21 6191 5666

Fax: +86 21 6191 5678

### 3.4 Test Facility

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

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. 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.

- **NVLAP (Certificate No. 201034-0)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). Certificate No. 201034-0.

- **FCC –Designation Number: CN5033**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

Designation Number: CN5033. Test Firm Registration Number: 479755.

- **Innovation, Science and Economic Development Canada**

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

IC Registration No.: 8617A-1. CAB identifier: CN0020.

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

## 4 Test Standards and Limits

### 4.1 IC Radiofrequency radiation exposure limits

Accordinging RSS-102 Table 4(RF Field Strength Limits for Devices Used by the General Public)

Frequency Range (MHz)	Electric Field (V/m rms)	Magnetic Field (A/m rms)	Power Density (W/m <sup>2</sup> )	Reference Period (minutes)
0.003-10	83	90	-	Instantaneous*
0.1-10	-	0.73/ <i>f</i>	-	6**
1.1-10	87/ <i>f</i> <sup>0.5</sup>	-	-	6**
10-20	27.46	0.0728	-2	6
20-48	58.07/ <i>f</i> <sup>0.25</sup>	0.1540/ <i>f</i> <sup>0.25</sup>	8.944/ <i>f</i> <sup>0.5</sup>	6
48-300	22.06	0.05852	1.291	6
300-6000	3.142 <i>f</i> <sup>0.3417</sup>	0.008335 <i>f</i> <sup>0.3417</sup>	0.02619 <i>f</i> <sup>0.6834</sup>	6
6000-15000	61.4	0.163	10	6
15000-150000	61.4	0.163	10	616000/ <i>f</i> <sup>1.2</sup>
150000-300000	0.158 <i>f</i> <sup>0.5</sup>	4.21 x 10 <sup>-4</sup> <i>f</i> <sup>0.5</sup>	6.67 x 10 <sup>-5</sup> <i>f</i>	616000/ <i>f</i> <sup>1.2</sup>

**Note:** *f* is frequency in MHz.  
\* Based on nerve stimulation (NS).  
\*\* Based on specific absorption rate (SAR).

For 915MHz Devices RF Field Strength Limits is 32.29V/m

## 5 Measurement and Calculation

### 5.1 Maximum transmit power

The Power Data is based on the RF Test Report SHEM190601456701

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
915	106.52	-14.04	92.48	94.00	-1.52	Horizontal
	101.06	-14.04	87.02	94.00	-6.98	Vertical

### 5.2 MPE Calculation

For 915MHz:  $92.48\text{dBuV/m} = 0.042\text{V/m} < 32.29\text{V/m}$

So the device is exclusion from SAR test.

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