

1 Cover Page

RF Exposure Evaluation Report

Application No.: SHCR2202000349AT
FCC ID: 2APV2-CSCB3EB3
Applicant: Hangzhou Ezviz Software Co., Ltd.
Address of Applicant: Room 302, Unit B, Building 2, 399 Danfeng Road, Binjiang District, Hangzhou, Zhejiang
Manufacturer: Hangzhou Ezviz Software Co., Ltd.
Address of Manufacturer: Room 302, Unit B, Building 2, 399 Danfeng Road, Binjiang District, Hangzhou, Zhejiang
Equipment Under Test (EUT):
EUT Name: Smart Home Battery Camera
Model No.: CS-CB3
Add Model No.: CS-CB3 (1080P), CS-EB3, CS-EB3 (3MP)
Standard(s) : FCC Rules 47 CFR §2.1091
Date of Receipt: 2022-02-16
Date of Test: 2022-03-10 to 2022-03-29
Date of Issue: 2022-03-30

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Parlam Zhan

Parlam Zhan
EMC Laboratory Manager



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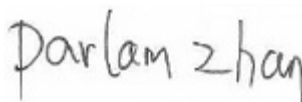


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Report No.: SHCR220200034902

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-03-30		Original

Authorized for issue by:				
				
		Micheal_Niu/Project Engineer		
				
		Parlam_Zhan/Reviewer		



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3 General Information

3.1 General Description of E.U.T.

Power supply:	DC 5V,2A Battery Mode: HIK6010HB Nominal Voltage: 3.7V Typical Capacity: 5200mAh/19.24Wh Minimal Capacity: 5100mAh/18.87Wh Charging Limited Voltage: 4.2V
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3.2 Technical Specifications

2.4GHz

Antenna Gain:	2.34dBi(Provided by manufacturer)
Antenna Type:	PIFA Antenna
Channel Spacing:	5MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n(HT20): OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz



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 (Kunshan) 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



5 Measurement and Calculation

5.1 Maximum transmit power

The Power Data is based on the RF Test Report SHCR220200034901

Test Mode	Channel	Antenna 1 Power[dBm]	Antenna 1 Power[mW]
11B SISO	2412	15.96	39.45
11B SISO	2437	15.67	36.90
11B SISO	2462	15.19	33.04
11G SISO	2412	15.18	32.96
11G SISO	2437	14.58	28.71
11G SISO	2462	14.54	28.44
11N20 SISO	2412	15.17	32.89
11N20 SISO	2437	15.30	33.88
11N20 SISO	2462	15.00	31.62



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) MPE limit = 1mW/cm²

For 2.4G WiFi –Antenna:

The max. antenna gain is		2.34	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
39.45	1.714	20	0.01345	1	Pass

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

--End of the Report--

