

Report No.: SHCR220400084702

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1 Cover Page

RF Exposure Evaluation Report

Application No.:SHCR2204000847ATFCC ID:2APV2-CSBM12D2

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-BM1, CS-BM1 (1080P,Ra); CS-BM1 (1080P,Be), CS-BM1-R100-2D2WF-Be;

CS-BM1-R100-2D2WF-Ra

Trade Mark: EZVIZ

Standard(s): FCC Rules 47 CFR §2.1091

Standard(s): KDB447498 D01 General RF Exposure Guidance v06

Date of Receipt: 2022-04-28

Date of Test: 2022-05-03 to 2022-05-03

Date of Issue: 2022-05-16

Test Result: Pass*

Parlam Zhan

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^{*} In the configuration tested, the EUT complied with the standards specified above.



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Revision Record						
Version	Chapter	Date	Modifier	Remark		
01		2022-05-16		Original		

Authorized for issue by:		
	hichael Mil	
	Micheal Niu /Project Engineer	
	Darlam Zhan	
	Parlam Zhan /Reviewer	



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3 General Information

3.1 General Description of E.U.T.

Power supply:	DC5V 1A, 5W Max	
	Battery model:H703232P	
	Battery: rated capacity:1900mAh,7.315Wh	
	Nominal capacity:2000mAh,7.7Wh	
	Nominal voltage:3.85V	
	Battery charged by adapter	

3.2 Technical Specifications

2.4GHz

2.4002	
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz;802.11n(HT40): 2422MHz to 2452MHz
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
Channel Spacing:	5MHz
Antenna Type:	FPC Antenna
Antenna Gain:	1.73dBi (Provided by the manufacturer)



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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 (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.

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-1600, C-1707, T-1499, 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/cm²)	Averaging time(minutes)	
300MHz~1.5GHz	f/1500	30	
1.5GHz~100GHz	1.0	30	

1) Note: PSD limit for 2.4G= 1mW/cm²



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5 Measurement and Calculation

5.1 Maximum transmit power

The Power Data is based on the RF Test Report SHCR220400084701

2.4G

Test Mode	Test Channel	Ant	Power [dBm]	Power [mW]
11B	2412	Ant1	14.65	29.17
11B	2437	Ant1	13.92	24.66
11B	2462	Ant1	13.34	21.58
11G	2412	Ant1	14.31	26.98
11G	2437	Ant1	13.49	22.34
11G	2462	Ant1	12.98	19.86
11N20SISO	2412	Ant1	14.08	25.59
11N20SISO	2437	Ant1	13.37	21.73
11N20SISO	2462	Ant1	12.91	19.54
11N40SISO	2422	Ant1	13.87	24.38
11N40SISO	2437	Ant1	13.28	21.28
11N40SISO	2452	Ant1	12.56	18.03



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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:

- 2) P (mW)
- 3) R = distance to the center of radiation of antenna (in meter) = 20cm
- 4) MPE limit = 1mW/cm²

For 2.4G WiFi:

The max. antenna gain is 1.73 dBi

Max. Conducted Power P(mW)	Gain in Linear Scale G	Operation Distance R(cm)	Power Density (mW/cm²)	Limit (mW/cm ²)	Result
29.17	1.489	20	0.00864	1	Pass

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

-- End of the Report--



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